

NASA Technical Memorandum 104230

NASA Thesaurus  
Aeronautics Vocabulary



National Aeronautics and  
Space Administration  
Office of Management  
Scientific and Technical  
Information Division

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## INTRODUCTION

The *NASA Thesaurus Aeronautics Vocabulary* consists of terms used by NASA indexers as descriptors for aeronautics related documents. The terms are presented in a hierarchical format derived from the 1988 edition of the *NASA Thesaurus Volume 1—Hierarchical Listing* and its supplements. Main (postable) terms and nonpostable cross references are listed in alphabetical order.

### READING THE HIERARCHY

Each main term is followed by a display of its context within a hierarchy. USE references, UF (used for) references, and SN (scope notes) appear immediately below the main term, followed by GS (generic structure), the hierarchical display of term relationships. The hierarchy is headed by the broadest term within that hierarchy. Terms that are broader in meaning than the main term are listed above the main term; terms narrower in meaning are listed below the main term. The term itself is in **boldface** for easy identification. Finally, a list of related terms (RT) from other hierarchies is provided.

Within a hierarchy, the number of dots to the left of a term indicates its hierarchical level—the more dots, the lower the level (i.e., the narrower the meaning of the term). For example, the term “CAMBERED WINGS” which is preceded by two dots is narrower in meaning than “WINGS”; this in turn is narrower than “AIRFOILS”. This relationship can be seen in the hierarchy of any of these three terms.

While all broader, narrower, and related terms in a hierarchy are main entries from the *NASA Thesaurus*, some hierarchy terms do not appear as main entries in the *NASA Thesaurus Aeronautics Vocabulary*. The reason is that a term may appear as part of a hierarchy or related term list but is not itself an appropriate main entry in the minithesaurus. For example, the display for “LAUNCHING” in the *Aeronautics Vocabulary* shows “ORBITAL LAUNCHING” as a narrower term, but there is no main entry for “ORBITAL LAUNCHING” which is not within the scope of aeronautics.

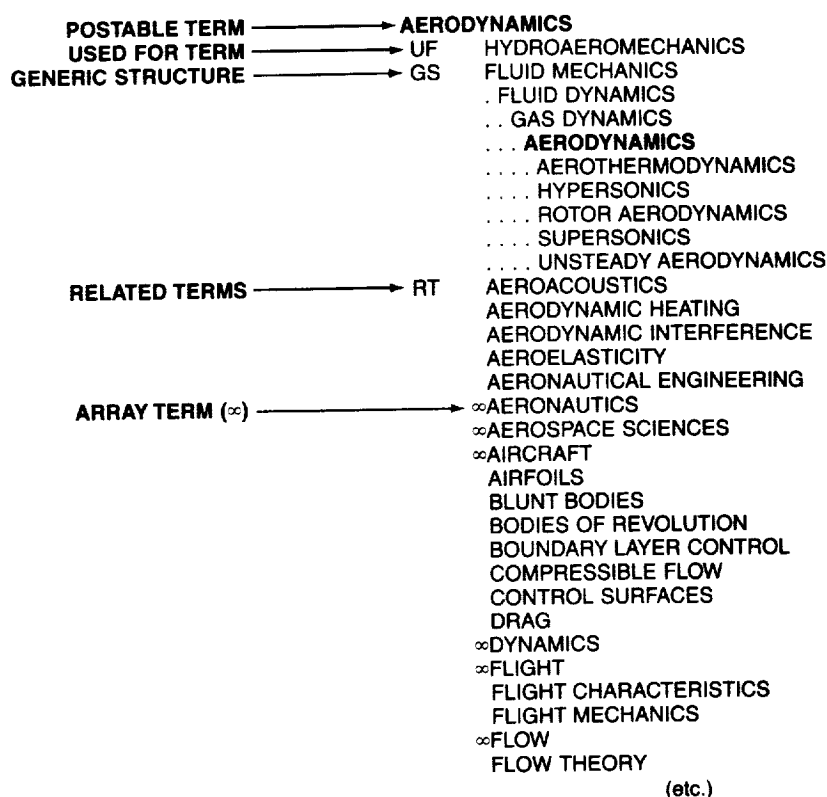
Other features include array terms identified by an infinity symbol which organize related concepts under very general headings; scope notes (SN), which restrict the use of a term to a certain context; and used for (UF) terms, which are nonpostable variations of the terms that have been cross referenced to the postable main term.

### NASA MINITHESAURI

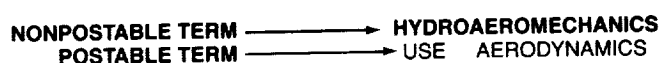
The *NASA Thesaurus Aeronautics Vocabulary* is the second minithesaurus produced from the *NASA Thesaurus*. The first minithesaurus, the *NASA Thesaurus Astronomy Vocabulary*, was produced in 1988 as NASA SP-7069 and contained 1600 terms.

Since this is the first edition of the *NASA Thesaurus Aeronautics Vocabulary*, it is especially important that any suggestions for term modification, deletion and addition be addressed to: Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, MD 21240.

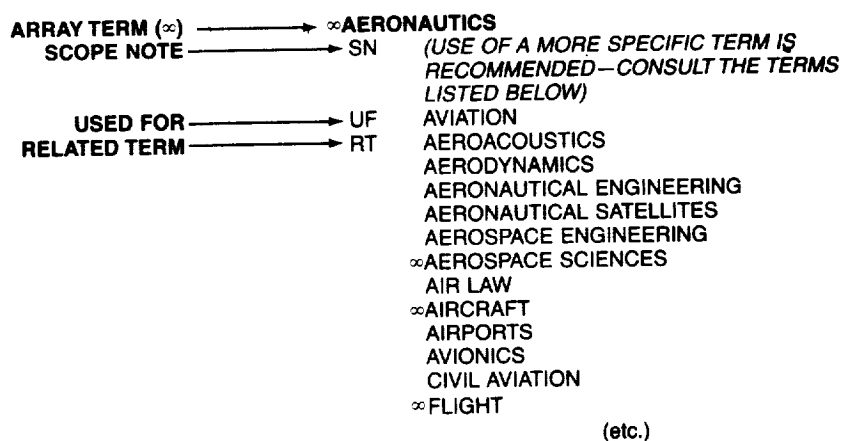
## TYPICAL USE CROSS REFERENCE ENTRY



### TYPICAL USE CROSS REFERENCE ENTRY



### TYPICAL ARRAY TERM ENTRY





# NASA THESAURUS

## AERONAUTICS VOCABULARY

### A

#### A-1 AIRCRAFT

UF SKYRAIDER AIRCRAFT  
GS ATTACK AIRCRAFT  
. **A-1 AIRCRAFT**  
MCDONNELL DOUGLAS AIRCRAFT  
. DOUGLAS AIRCRAFT  
. **A-1 AIRCRAFT**  
MONOPLANES  
. **A-1 AIRCRAFT**  
RT ∞ AIRCRAFT

#### A-2 AIRCRAFT

UF SAVAGE AIRCRAFT  
GS ATTACK AIRCRAFT  
. BOMBER AIRCRAFT  
. **A-2 AIRCRAFT**  
JET AIRCRAFT  
. **A-2 AIRCRAFT**  
MONOPLANES  
. **A-2 AIRCRAFT**  
NORTH AMERICAN AIRCRAFT  
. **A-2 AIRCRAFT**  
OBSERVATION AIRCRAFT  
. **A-2 AIRCRAFT**  
RT ∞ AIRCRAFT

#### A-3 AIRCRAFT

UF A3D AIRCRAFT  
SKYWARRIOR AIRCRAFT  
GS ATTACK AIRCRAFT  
. BOMBER AIRCRAFT  
. **A-3 AIRCRAFT**  
JET AIRCRAFT  
. **A-3 AIRCRAFT**  
MCDONNELL DOUGLAS AIRCRAFT  
. DOUGLAS AIRCRAFT  
. **A-3 AIRCRAFT**  
MONOPLANES  
. **A-3 AIRCRAFT**  
RT ∞ AIRCRAFT

#### A-4 AIRCRAFT

UF A4D AIRCRAFT  
SKYHAWK AIRCRAFT  
GS ATTACK AIRCRAFT  
. BOMBER AIRCRAFT  
. **A-4 AIRCRAFT**  
JET AIRCRAFT  
. **A-4 AIRCRAFT**  
MCDONNELL DOUGLAS AIRCRAFT  
. DOUGLAS AIRCRAFT  
. **A-4 AIRCRAFT**  
MONOPLANES  
. **A-4 AIRCRAFT**  
RT ∞ AIRCRAFT  
J-65 ENGINE

#### A-5 AIRCRAFT

UF A3J AIRCRAFT  
VIGILANTE AIRCRAFT  
GS ATTACK AIRCRAFT  
. BOMBER AIRCRAFT  
. **A-5 AIRCRAFT**  
JET AIRCRAFT  
. **A-5 AIRCRAFT**  
MONOPLANES  
. **A-5 AIRCRAFT**  
NORTH AMERICAN AIRCRAFT  
. **A-5 AIRCRAFT**  
SUPERSONIC AIRCRAFT  
. **A-5 AIRCRAFT**  
RT ∞ AIRCRAFT

#### A-6 AIRCRAFT

UF A2F AIRCRAFT  
INTRUDER AIRCRAFT  
GS ATTACK AIRCRAFT

#### A-6 AIRCRAFT-(CONT.)

. BOMBER AIRCRAFT  
. **A-6 AIRCRAFT**  
GRUMMAN AIRCRAFT  
. **A-6 AIRCRAFT**  
JET AIRCRAFT  
. **A-6 AIRCRAFT**  
MONOPLANES  
. **A-6 AIRCRAFT**  
RT ∞ AIRCRAFT

#### A-7 AIRCRAFT

UF CORSAIR AIRCRAFT  
GS ATTACK AIRCRAFT  
. **A-7 AIRCRAFT**  
JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **A-7 AIRCRAFT**  
LING-TEMCO-VOUGHT AIRCRAFT  
. **A-7 AIRCRAFT**  
MONOPLANES  
. **A-7 AIRCRAFT**  
RT ∞ AIRCRAFT

#### A-9 AIRCRAFT

GS ATTACK AIRCRAFT  
. **A-9 AIRCRAFT**  
NORTHROP AIRCRAFT  
. **A-9 AIRCRAFT**  
RECONNAISSANCE AIRCRAFT  
. **A-9 AIRCRAFT**  
RT ∞ AIRCRAFT

#### ABLATION

RT ABLATIVE MATERIALS  
ABLATIVE NOSE CONES  
AERODYNAMIC HEAT TRANSFER  
AERODYNAMIC HEATING  
AEROTHERMOCHEMISTRY  
ATMOSPHERIC ENTRY  
BURNTHROUGH (FAILURE)  
CHARRING  
COOLING  
DECOMPOSITION  
EROSION  
GAS-METAL INTERACTIONS  
HEAT SHIELDING  
IMPINGEMENT  
JET IMPINGEMENT  
MASS TRANSFER  
MELTING  
PYROLYSIS  
REENTRY  
REENTRY EFFECTS  
REENTRY PHYSICS  
REENTRY SHIELDING  
SUBLIMATION  
TEMPERATURE EFFECTS  
THERMAL ABSORPTION  
THERMAL DECOMPOSITION  
VAPORIZING

#### ABLATIVE MATERIALS

RT ABLATION  
COOLING  
HEAT SHIELDING  
HEAT SINKS  
∞ MATERIALS  
NOSE CONES  
NOZZLE INSERTS  
PYROLYTIC MATERIALS  
REFRACTORY MATERIALS  
TEMPERATURE  
THERMAL CONTROL COATINGS  
THERMAL PROTECTION

#### ABLATIVE NOSE CONES

GS CONES  
. NOSE CONES

#### ABLATIVE NOSE CONES-(CONT.)

. **ABLATIVE NOSE CONES**  
FOREBODIES  
. NOSES (FOREBODIES)  
. NOSE CONES  
. **ABLATIVE NOSE CONES**  
RT ABLATION  
HEAT SHIELDING  
REENTRY SHIELDING  
REENTRY VEHICLES  
ROCKET NOSE CONES  
SHIELDING

#### ABLESTAR LAUNCH VEHICLE

GS LAUNCH VEHICLES  
. **ABLESTAR LAUNCH VEHICLE**  
ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. **ABLESTAR LAUNCH VEHICLE**  
RT LIQUID PROPELLANT ROCKET ENGINES

#### ABORT APPARATUS

GS SAFETY DEVICES  
. **ABORT APPARATUS**  
RT ABORTED MISSIONS  
AIRCRAFT SAFETY  
ARRESTING GEAR  
∞ BARRIERS  
BRAKES (FOR ARRESTING MOTION)  
DRAG DEVICES  
EJECTION SEATS  
∞ EQUIPMENT  
ESCAPE CAPSULES  
ESCAPE ROCKETS  
FLYING EJECTION SEATS

#### ABORT TRAJECTORIES

GS TRAJECTORIES  
. **ABORT TRAJECTORIES**  
RT ABORTED MISSIONS  
MATT'S (SYSTEMS)

#### ABORTED MISSIONS

RT ABORT APPARATUS  
ABORT TRAJECTORIES  
DESTRUCTION  
ENGINE FAILURE  
ESCAPE CAPSULES  
ESCAPE ROCKETS  
FAILURE  
MALFUNCTIONS  
∞ MISSIONS

#### ABSORPTION COOLING

GS COOLING  
. **ABSORPTION COOLING**  
RT ∞ ABSORPTION  
AMMONIA  
MAGNETIC COOLING  
REFRIGERANTS

#### AC-1 AIRCRAFT

USE DHC 4 AIRCRAFT

#### ∞ ACCELERATION

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*  
RT ACCELERATION (PHYSICS)  
ACCELERATION PROTECTION  
ACCELERATION STRESSES  
(PHYSIOLOGY)  
∞ ACCELERATORS  
ANGULAR ACCELERATION  
CATALYSIS  
ELECTROMAGNETIC ACCELERATION  
ELECTRON ACCELERATION  
GRAVIMETRY  
HIGH ACCELERATION

## ACCELERATION (PHYSICS)

### ACCELERATION-(CONT.)

HIGH GRAVITY ENVIRONMENTS  
HUMAN TOLERANCES  
IMPACT ACCELERATION  
PARTICLE ACCELERATION  
PHYSIOLOGICAL ACCELERATION  
PLASMA ACCELERATION  
TRANSVERSE ACCELERATION

### ACCELERATION (PHYSICS)

UF BOOST  
G FORCE  
GS RATES (PER TIME)  
ACCELERATION (PHYSICS)  
ANGULAR ACCELERATION  
DECELERATION  
SPIN REDUCTION  
ELECTRON ACCELERATION  
HIGH ACCELERATION  
HIGH GRAVITY ENVIRONMENTS  
IMPACT ACCELERATION  
PARTICLE ACCELERATION  
PLASMA ACCELERATION  
TRANSVERSE ACCELERATION  
RT ACCELERATION  
ACCELERATION STRESSES  
(PHYSIOLOGY)  
ACCELEROMETERS  
BODY KINEMATICS  
EXPULSION  
FLIGHT STRESS (BIOLOGY)  
FORCE  
KINEMATICS  
KINETICS  
MECHANICAL SHOCK  
MOTION  
PHYSIOLOGICAL ACCELERATION  
STRESS (PHYSIOLOGY)  
THRUST  
THRUST-WEIGHT RATIO  
VELOCITY

### ACCELEROMETERS

GS MEASURING INSTRUMENTS  
ACCELEROMETERS  
STRAIN GAGE ACCELEROMETERS  
RT ACCELERATION (PHYSICS)  
GRAVIMETERS  
GRAVIMETRY  
GYROSCOPIC PENDULUMS  
MECHANICAL MEASUREMENT  
PENDULUMS  
SEISMOGRAPHS  
SHOCK MEASURING INSTRUMENTS  
SPEED INDICATORS  
THRUST MEASUREMENT  
VELOCITY MEASUREMENT  
VIBRATION METERS

### ACOUSTIC COMBUSTION

USE COMBUSTION STABILITY

### ACOUSTIC COUPLING

GS COUPLING  
ACOUSTIC COUPLING  
RT ACOUSTIC ATTENUATION  
ACOUSTIC EXCITATION  
ACOUSTICS  
ENERGY TRANSFER  
SOUND WAVES  
WAVE INTERACTION

### ACOUSTIC LEVITATION

GS LEVITATION  
ACOUSTIC LEVITATION  
RT BUOYANCY  
SPACE PROCESSING

### ACOUSTIC PROPAGATION

GS TRANSMISSION  
WAVE PROPAGATION  
ACOUSTIC PROPAGATION  
RT ACOUSTIC MICROSCOPES  
ACOUSTICAL HOLOGRAPHY  
ACOUSTICS  
ELASTIC WAVES  
PROPAGATION  
SOUND PROPAGATION  
WHISPERING GALLERY MODES

### ACOUSTIC SIMULATION

GS SIMULATION  
ENVIRONMENT SIMULATION  
ACOUSTIC SIMULATION  
RT ELASTIC WAVES

### ACOUSTIC SIMULATION-(CONT.)

FLIGHT SIMULATION  
REVERBERATION CHAMBERS

### ACOUSTIC STREAMING

RT FLUID FLOW  
FLUID SWITCHING ELEMENTS  
FRAGMENTATION  
SOUND WAVES  
STREAMLINING

### ACOUSTICS

UF SOUND  
GS ACOUSTICS  
AEROACOUSTICS  
BIOACOUSTICS  
ELECTROACOUSTICS  
GEOMETRICAL ACOUSTICS  
MAGNETOACOUSTICS  
MICROSONICS  
PSYCHOACOUSTICS  
UNDERWATER ACOUSTICS  
RT ACOUSTIC ATTENUATION  
ACOUSTIC COUPLING  
ACOUSTIC EXCITATION  
ACOUSTIC FATIGUE  
ACOUSTIC FREQUENCIES  
ACOUSTIC IMPEDANCE  
ACOUSTIC PROPAGATION  
ACOUSTIC SCATTERING  
ACOUSTIC SOUNDING  
ANECHOIC CHAMBERS  
ARCHITECTURE  
AUDITORY PERCEPTION  
AUDITORY STIMULI  
AUDITORY TASKS  
COMFORT  
EARPHONES  
ECHOES  
EFFECTIVE PERCEIVED NOISE LEVELS  
ELASTIC WAVES  
HARMONIC EXCITATION  
HARMONIC GENERATIONS  
HARMONIC OSCILLATION  
HARMONICS  
HUM  
INFRASONIC FREQUENCIES  
LAMB WAVES  
LAME WAVE EQUATIONS  
LOUDNESS  
NOISE (SOUND)  
NOISE POLLUTION  
NOISE PROPAGATION  
NOISE REDUCTION  
OCTAVES  
OPACITY  
PHONETICS  
POWER SPECTRA  
SCIENCE  
SIMPLE HARMONIC MOTION  
SONIC ANEMOMETERS  
SOUND AMPLIFICATION  
SOUND FIELDS  
SOUND PROPAGATION  
SOUND TRANSMISSION  
SOUND WAVES  
SPEECH  
STEREOPHONICS  
ULTRASONIC CLEANING  
ULTRASONIC SCANNERS  
ULTRASONICS  
VERBAL COMMUNICATION  
VIBRATION  
VIBRATION DAMPING  
VOICE COMMUNICATION  
ZERO SOUND

### ACROBATICS (AIRCRAFT)

USE AEROBATICS

### ADAPTIVE CONTROL

UF ADAPTIVE CONTROL SYSTEMS  
GS AUTOMATIC CONTROL  
ADAPTIVE CONTROL  
ACTIVE CONTROL  
MACHINE LEARNING  
MODEL REFERENCE ADAPTIVE  
CONTROL  
SELF ADAPTIVE CONTROL SYSTEMS  
RT AUTOMATA THEORY  
AUTONOMY  
CONTROL  
CONTROL THEORY  
CYBERNETICS  
DYNAMIC CONTROL

### ADAPTIVE CONTROL-(CONT.)

FEEDBACK CONTROL  
FEEDFORWARD CONTROL  
MISSION ADAPTIVE WINGS  
OPTIMAL CONTROL  
SAMPLED DATA SYSTEMS  
SELF ALIGNMENT  
SMART STRUCTURES

### ADAPTIVE CONTROL SYSTEMS

USE ADAPTIVE CONTROL

### ADI METHODS

USE ALTERNATING DIRECTION IMPLICIT  
METHODS

### ADIABATIC CONDITIONS

GS CONDITIONS  
ADIABATIC CONDITIONS  
RT CARNOT CYCLE  
COMPRESSING  
ENTHALPY  
ENVIRONMENTS  
EXPANSION  
ISENTROPE  
ISOENERGETIC PROCESSES  
ISOTHERMAL PROCESSES  
POLYTROPIC PROCESSES  
TEMPERATURE  
THERMAL ENVIRONMENTS  
THERMODYNAMIC CYCLES  
THERMODYNAMIC EQUILIBRIUM

### ADIABATIC DEMAGNETIZATION COOLING

RT MAGNETIC COOLING

### ADIABATIC EQUATIONS

RT EQUATIONS  
EQUATIONS OF STATE  
HEAT TRANSMISSION  
NONADIABATIC THEORY  
SHOCK WAVES

### ADIABATIC FLOW

GS FLUID FLOW  
ADIABATIC FLOW  
RT STAGNATION TEMPERATURE

### ADVANCED AIRBORNE COMMAND POST

USE E-4A AIRCRAFT

### ADVANCED LAUNCH SYSTEM (STS)

UF ALS (LAUNCH SYSTEM)  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
ADVANCED LAUNCH SYSTEM (STS)  
RT HEAVY LIFT LAUNCH VEHICLES  
LAUNCH VEHICLE CONFIGURATIONS  
LAUNCH VEHICLES  
NASA PROGRAMS  
NASA SPACE PROGRAMS  
PAYLOAD DELIVERY (STS)  
REUSABLE LAUNCH VEHICLES  
SHUTTLE DERIVED VEHICLES  
SPACE SHUTTLES  
SPACECRAFT DESIGN

### ADVANCED RANGE INSTRUMENTATION

AIRCRAFT  
RT AIRBORNE EQUIPMENT  
AIRCRAFT  
APOLLO PROJECT  
C-135 AIRCRAFT  
DATA ACQUISITION  
TELEMETRY

### ADVANCED RANGE INSTRUMENTATION SHIP

UF ARIS INSTRUMENTATION SHIP  
GS WATER VEHICLES  
SHIPS  
ADVANCED RANGE  
INSTRUMENTATION SHIP  
RT INSTRUMENTS  
MANNED SPACE FLIGHT NETWORK  
SPACECRAFT TRACKING  
TRACKING NETWORKS

### ADVANCED TECHNOLOGY LIGHT TWIN

AIRCRAFT  
USE ATLIT PROJECT

### AERIAL ACROBATICS

USE AEROBATICS

## AERODYNAMIC DRAG

### AERIAL EXPLOSIONS

SN (LIMITED TO EXPLOSIONS OCCURRING  
AT HEIGHTS LESS THAN 50 KM)  
UF AIR BLASTS  
GS EXPLOSIONS  
RT . AERIAL EXPLOSIONS  
BLAST LOADS  
CHEMICAL EXPLOSIONS  
NUCLEAR EXPLOSIONS  
THERMONUCLEAR EXPLOSIONS

### AERIAL IMAGERY

USE AERIAL PHOTOGRAPHY

### AERIAL PHOTOGRAPHY

UF AERIAL IMAGERY  
GS IMAGERY  
RT . AERIAL PHOTOGRAPHY  
PHOTOGRAPHY  
ASTRONOMICAL PHOTOGRAPHY  
CHANGE DETECTION  
CLOUD PHOTOGRAPHS  
CLOUD PHOTOGRAPHY  
COLOR PHOTOGRAPHY  
EARTH OBSERVATIONS (FROM SPACE)  
EARTH RESOURCES SURVEY AIRCRAFT  
FOREST FIRE DETECTION  
GEOGRAPHIC INFORMATION SYSTEMS  
GRAY SCALE  
GROUND TRUTH  
ICE MAPPING  
IMAGE MOTION COMPENSATION  
INFRARED PHOTOGRAPHY  
ORTHOGRAPHY  
PHOTO GEOLOGY  
PHOTOGRAMMETRY  
PHOTOINTERPRETATION  
PHOTOMAPPING  
PHOTOMAPS  
PIXELS  
PLANT STRESS  
ROCKET-BORNE PHOTOGRAPHY  
SATELLITE-BORNE PHOTOGRAPHY  
SEA TRUTH  
SPACEBORNE PHOTOGRAPHY  
STEREOPHOTOGRAPHY  
TIMBER INVENTORY  
ULTRAVIOLET PHOTOGRAPHY

### AERIAL RECONNAISSANCE

GS RECONNAISSANCE  
RT . AERIAL RECONNAISSANCE  
AIRBORNE INTEGRATED  
RECONNAISSANCE SYSTEM  
AEROMAGNETISM  
CHANGE DETECTION  
EARTH RESOURCES SURVEY AIRCRAFT  
GROUND TRUTH  
HS-801 AIRCRAFT  
INFRARED RADIOMETERS  
METEOROLOGICAL FLIGHT  
PHOTORECONNAISSANCE  
RECONNAISSANCE AIRCRAFT  
RECONNAISSANCE SPACECRAFT  
THERMAL MAPPING

### AERIAL RUDDERS

GS AIRFOILS  
RT . AERIAL RUDDERS  
CONTROL SURFACES  
RUDDERS  
AERIAL RUDDERS  
FINS  
HORIZONTAL TAIL SURFACES  
MARINE RUDDERS  
STABILIZERS (FLUID DYNAMICS)  
TABS (CONTROL SURFACES)  
TAIL ASSEMBLIES

### AEROACOUSTICS

GS ACOUSTICS  
RT . AEROACOUSTICS  
AERODYNAMICS  
AERONAUTICS  
AIRCRAFT NOISE  
GRAZING FLOW  
NOISE PREDICTION (AIRCRAFT)  
PROPELLER NOISE  
SCIENCE  
SURFACE NOISE INTERACTIONS

### AEROBATICS

UF ACROBATICS (AIRCRAFT)  
AERIAL ACROBATICS

### AEROBATICS-(CONT.)

RT FLIGHT CONTROL  
MANEUVERS

### AEROBEE ROCKET VEHICLE

GS ROCKET VEHICLES  
SOUNDING ROCKETS  
AEROBEE ROCKET VEHICLE

### AERODYNAMIC AXIS

USE AERODYNAMIC BALANCE

### AERODYNAMIC BALANCE

UF AERODYNAMIC AXIS  
AERODYNAMIC CENTER  
DRAG BALANCE  
TRIM (BALANCE)  
GS AERODYNAMIC CHARACTERISTICS  
AERODYNAMIC BALANCE  
RT AIRCRAFT STABILITY  
BALANCE  
DYNAMIC CHARACTERISTICS  
HORIZONTAL FLIGHT  
LIFT DRAG RATIO  
MASS DISTRIBUTION  
SPACECRAFT MOTION  
SPACECRAFT STABILITY  
STATIC AERODYNAMIC  
CHARACTERISTICS  
TURNING FLIGHT

### AERODYNAMIC BRAKES

GS BRAKES (FOR ARRESTING MOTION)  
AERODYNAMIC BRAKES  
BALLUTES  
DRAG CHUTES  
PARAVULCOONS  
SPLIT FLAPS  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
DRAG DEVICES  
AERODYNAMIC BRAKES  
BALLUTES  
DRAG CHUTES  
PARAVULCOONS  
SPLIT FLAPS  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
RT AIRCRAFT BRAKES  
CONTROL SURFACES  
FLAPERONS  
FLAPS (CONTROL SURFACES)  
PARACHUTES  
RETRACTABLE EQUIPMENT  
SPOILERS

### AERODYNAMIC BUZZ

USE FLUTTER

### AERODYNAMIC CENTER

USE AERODYNAMIC BALANCE

### AERODYNAMIC CHARACTERISTICS

GS AERODYNAMIC CHARACTERISTICS  
AERODYNAMIC BALANCE  
AERODYNAMIC DRAG  
SUPERSONIC DRAG  
AERODYNAMIC STABILITY  
INTERFERENCE DRAG  
LIFT  
INTERFERENCE LIFT  
JET LIFT  
ROTOR LIFT  
ZERO LIFT  
STATIC AERODYNAMIC  
CHARACTERISTICS  
RT AERODYNAMIC NOISE  
ANGLE OF ATTACK  
ASPECT RATIO  
CHARACTERISTICS  
CROSS FLOW  
DYNAMIC CHARACTERISTICS  
ENGINE AIRFRAME INTEGRATION  
FLIGHT ENVELOPES  
ROTOR BODY INTERACTIONS  
UNDER SURFACE BLOWING  
UNSTEADY AERODYNAMICS  
UPPER SURFACE BLOWING  
WIND TUNNEL TESTS

### AERODYNAMIC CHORDS

USE AIRFOIL PROFILES  
CHORDS (GEOMETRY)

### AERODYNAMIC COEFFICIENTS

UF LIFT COEFFICIENTS  
GS COEFFICIENTS  
RT . AERODYNAMIC COEFFICIENTS  
DRAG COEFFICIENTS  
FLOW COEFFICIENTS  
FLOW DISTORTION  
FORCE DISTRIBUTION  
LIFT  
LIFT DRAG RATIO  
PITCHING MOMENTS  
PRESSURE DISTRIBUTION  
ROLLING MOMENTS  
YAWING MOMENTS

### AERODYNAMIC CONFIGURATIONS

SN (LIMITED TO AERODYNAMIC VEHICLE  
SHAPES-FOR LIFTING OR THRUSTING  
SURFACES USE AIRFOILS)  
GS AERODYNAMIC CONFIGURATIONS  
DROOPED AIRFOILS  
WAVERIDERS  
WING NACELLE CONFIGURATIONS  
RT AIRCRAFT CONFIGURATIONS  
AIRCRAFT DESIGN  
AIRFOILS  
BLUNT BODIES  
BODIES OF REVOLUTION  
BODY-WING AND TAIL CONFIGURATIONS  
BODY-WING CONFIGURATIONS  
CANARD CONFIGURATIONS  
CHANNEL WINGS  
CONES  
CONFIGURATIONS  
CONTROL SURFACES  
DESIGN  
DISKS (SHAPES)  
DRAG  
ENGINE AIRFRAME INTEGRATION  
FAIRINGS  
FINNED BODIES  
HALF CONES  
HEMISPHERES  
INTAKE SYSTEMS  
LAUNCH VEHICLE CONFIGURATIONS  
LIFT  
LIFTING BODIES  
MISSILE CONFIGURATIONS  
MONOPLANES  
NACELLES  
NOSE TIPS  
OBLIQUE WINGS  
PROPULSION SYSTEM CONFIGURATIONS  
PROTUBERANCES  
PYLON MOUNTING  
REYNOLDS EQUATION  
RING STRUCTURES  
ROTOR BODY INTERACTIONS  
SATELLITE CONFIGURATIONS  
SCALE MODELS  
SEMISPAN MODELS  
SLENDER BODIES  
SLENDER CONES  
SPACECRAFT CONFIGURATIONS  
SPHERES  
STRAKES  
STREAMLINED BODIES  
THREE DIMENSIONAL BODIES  
WEDGES  
WIND TUNNEL MODELS  
WING ROOTS

### AERODYNAMIC DRAG

GS AERODYNAMIC CHARACTERISTICS  
AERODYNAMIC DRAG  
SUPERSONIC DRAG  
AERODYNAMIC FORCES  
AERODYNAMIC DRAG  
SUPERSONIC DRAG  
DYNAMIC CHARACTERISTICS  
DRAG  
FRICTION DRAG  
AERODYNAMIC DRAG  
SUPERSONIC DRAG  
FRICTION  
FLOW RESISTANCE  
FRICTION DRAG  
AERODYNAMIC DRAG  
SUPERSONIC DRAG  
SKIN FRICTION  
FRICTION DRAG

## AERODYNAMIC FORCES

### AERODYNAMIC DRAG-(CONT.)

... AERODYNAMIC DRAG  
... SUPERSONIC DRAG  
RT BALLISTICS  
BASE PRESSURE  
∞ DRAG COEFFICIENTS  
DRAG MEASUREMENT  
DRAG REDUCTION  
GROUND EFFECT (AERODYNAMICS)  
HYPERSONIC FORCES  
LIFT  
LIFT DRAG RATIO  
ORBIT DECAY  
PRESSURE DRAG  
∞ RESISTANCE  
SATELLITE DRAG  
TURBULENCE  
VORTEX FLAPS

### AERODYNAMIC FORCES

UF GLAUERT COEFFICIENT  
GS AERODYNAMIC FORCES  
... AERODYNAMIC DRAG  
... SUPERSONIC DRAG  
... AERODYNAMIC INTERFERENCE  
... AERODYNAMIC LOADS  
... BLAST LOADS  
... GUST LOADS  
... HYPERSONIC FORCES  
... LIFT  
... INTERFERENCE LIFT  
... JET LIFT  
... ROTOR LIFT  
... ZERO LIFT  
... WING LOADING  
RT ∞ FORCE  
LEADING EDGE THRUST  
THRUST DISTRIBUTION  
UNSTEADY AERODYNAMICS

### AERODYNAMIC HEAT TRANSFER

GS TRANSMISSION  
... HEAT TRANSMISSION  
... HEAT TRANSFER  
... AERODYNAMIC HEAT TRANSFER  
... HYPERSONIC HEAT TRANSFER  
... SUPERSONIC HEAT TRANSFER  
RT ABLATION  
AEROTHERMODYNAMICS  
TURBULENT HEAT TRANSFER

### AERODYNAMIC HEATING

GS HEATING  
... KINETIC HEATING  
... AERODYNAMIC HEATING  
... SHOCK HEATING  
RT ABLATION  
AERODYNAMICS  
AEROTHERMOCHEMISTRY  
AEROTHERMODYNAMICS  
ATMOSPHERIC ENTRY  
BOUNDARY LAYER PLASMAS  
COMPRESSIBLE FLUIDS  
CONVECTIVE HEAT TRANSFER  
HYPERSONIC REENTRY  
REENTRY  
REENTRY EFFECTS  
REENTRY SHIELDING  
SKIN FRICTION  
SKIN TEMPERATURE (NON-BIOLOGICAL)  
TRANSIENT HEATING  
UNCONTROLLED REENTRY  
(SPACECRAFT)

### AERODYNAMIC INTERFERENCE

GS AERODYNAMIC FORCES  
... AERODYNAMIC INTERFERENCE  
RT AERODYNAMICS  
AIR FLOW  
AIRCRAFT CONFIGURATIONS  
AIRCRAFT STRUCTURES  
AIRFOIL PROFILES  
CONTROL SURFACES  
∞ INTERFERENCE  
PROTUBERANCES  
TURBULENT FLOW  
WING PROFILES

### AERODYNAMIC LIFT

USE LIFT

### AERODYNAMIC LOADS

GS AERODYNAMIC FORCES  
... AERODYNAMIC LOADS  
... BLAST LOADS

### AERODYNAMIC LOADS-(CONT.)

... GUST LOADS  
LOADS (FORCES)  
... DYNAMIC LOADS  
... AERODYNAMIC LOADS  
... BLAST LOADS  
... GUST LOADS  
RT AXIAL COMPRESSION LOADS  
AXIAL LOADS  
COMPRESSION LOADS  
CRITICAL LOADING  
EDGE LOADING  
FORCE DISTRIBUTION  
LOADING MOMENTS  
PRESSURE DISTRIBUTION  
SHOCK LOADS  
STATIC LOADS  
STRUCTURAL DESIGN CRITERIA  
THRUST LOADS  
TRANSIENT LOADS  
VIBRATORY LOADS  
WING LOADING

### AERODYNAMIC MOMENTS

USE STABILITY DERIVATIVES

### AERODYNAMIC NOISE

UF BOUNDARY LAYER NOISE  
GS ELASTIC WAVES  
... SOUND WAVES  
... NOISE (SOUND)  
... AERODYNAMIC NOISE  
... BLADE SLAP NOISE  
... PROPELLER NOISE  
RT ACOUSTIC RETROFITTING  
AERODYNAMIC CHARACTERISTICS  
AEROELASTICITY  
AIRCRAFT NOISE  
FLUTTER  
JET AIRCRAFT NOISE  
NOISE MEASUREMENT  
NOISE REDUCTION  
PANEL FLUTTER  
SHOCK WAVES  
SONIC BOOMS  
SURFACE NOISE INTERACTIONS

### AERODYNAMIC STABILITY

UF FLYING PLATFORM STABILITY  
GS AERODYNAMIC CHARACTERISTICS  
... AERODYNAMIC STABILITY  
... DYNAMIC CHARACTERISTICS  
... DYNAMIC STABILITY  
... MOTION STABILITY  
... AERODYNAMIC STABILITY  
STABILITY  
... DYNAMIC STABILITY  
... MOTION STABILITY  
... AERODYNAMIC STABILITY  
RT AEROELASTICITY  
AIRCRAFT STABILITY  
AIRFOIL OSCILLATIONS  
ATTITUDE STABILITY  
BALLAST (MASS)  
BOUNDARY LAYER STABILITY  
BUFFETING  
DIRECTIONAL STABILITY  
DYNAMIC TESTS  
FLIGHT ENVELOPES  
FLIGHT STABILITY TESTS  
FLOW STABILITY  
FLUTTER  
GROUND RESONANCE  
HELICOPTER PERFORMANCE  
HOVERING  
LATERAL STABILITY  
LIQUID SLOSHING  
LONGITUDINAL STABILITY  
LOW SPEED STABILITY  
MASS DISTRIBUTION  
PILOT INDUCED OSCILLATION  
PRESSURE DISTRIBUTION  
REENTRY  
RICHARDSON NUMBER  
SPACECRAFT MOTION  
SPACECRAFT STABILITY  
STABILITY AUGMENTATION  
STATIC AERODYNAMIC  
CHARACTERISTICS  
TURBULENCE EFFECTS  
UNSTEADY AERODYNAMICS  
VORTEX AVOIDANCE  
WIND TUNNEL STABILITY TESTS  
WING OSCILLATIONS  
YAW

### AERODYNAMIC STALLING

RT AIRCRAFT PERFORMANCE  
AIRCRAFT SPIN  
AIRSPEED  
ANGLE OF ATTACK  
BOUNDARY LAYER SEPARATION  
LIFT DRAG RATIO  
LOW SPEED STABILITY  
∞ STALLING  
SWEEP ANGLE  
ZERO LIFT

### AERODYNAMIC VEHICLES

USE AIRCRAFT

### AERODYNAMICS

UF HYDROAEROMECHANICS  
GS FLUID MECHANICS  
... FLUID DYNAMICS  
... GAS DYNAMICS  
... AERODYNAMICS  
... AEROTHERMODYNAMICS  
... HYPERSONICS  
... ROTOR AERODYNAMICS  
... SUPERSONICS  
... UNSTEADY AERODYNAMICS  
RT AEROACOUSTICS  
AERODYNAMIC HEATING  
AERODYNAMIC INTERFERENCE  
AEROELASTICITY  
AERONAUTICAL ENGINEERING  
∞ AERONAUTICS  
∞ AEROSPACE SCIENCES  
∞ AIRCRAFT  
AIRFOILS  
BLUNT BODIES  
BODIES OF REVOLUTION  
BOUNDARY LAYER CONTROL  
COMPRESSIBLE FLOW  
CONTROL SURFACES  
DRAG  
∞ DYNAMICS  
∞ FLIGHT  
FLIGHT CHARACTERISTICS  
FLIGHT MECHANICS  
∞ FLOW  
FLOW THEORY  
FREE WING AIRCRAFT  
GROUND EFFECT (AERODYNAMICS)  
HYPERSONIC FLIGHT  
HYPERSONIC FLOW  
INCOMPRESSIBLE FLOW  
INVISCID FLOW  
LAMINAR FLOW  
LIFT  
MACH NUMBER  
MACH-ZEHNDER INTERFEROMETERS  
REENTRY  
∞ SCIENCE  
SLENDER BODIES  
SUBSONIC FLOW  
SUPERSONIC FLOW  
THERMODYNAMICS  
TRANSONIC FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
VISCOUS FLOW  
WIND MEASUREMENT  
WIND TUNNELS

### AEROELASTIC RESEARCH WINGS

GS AIRFOILS  
... WINGS  
... AEROELASTIC RESEARCH WINGS  
RT AIRCRAFT DESIGN  
FLUTTER  
FLUTTER ANALYSIS  
STRUCTURAL DESIGN  
WING OSCILLATIONS

### AEROELASTICITY

GS MECHANICAL PROPERTIES  
... ELASTIC PROPERTIES  
... AEROELASTICITY  
... AEROTHERMOELASTICITY  
RT AERODYNAMIC NOISE  
AERODYNAMIC STABILITY  
AERODYNAMICS  
AEROTHERMODYNAMICS  
AIRCRAFT STRUCTURES  
AIRFOIL OSCILLATIONS  
DAST PROGRAM  
FLUTTER  
INFLUENCE COEFFICIENT

**AEROELASTICITY-(CONT.)**

PANEL FLUTTER  
RIGID WINGS  
THERMOELASTICITY  
UNSTEADY AERODYNAMICS  
WING LOADING

**AEROGYRO HELICOPTERS**

USE XH-51 HELICOPTER

**AEROMAGNETO FLUTTER**

USE FLUTTER

**AERONAUTICAL ENGINEERING**

GS AEROSPACE ENGINEERING  
AERONAUTICAL ENGINEERING  
RT AERODYNAMICS  
AERONAUTICS  
AIRCRAFT  
AIRCRAFT DESIGN  
AIRCRAFT INDUSTRY  
AUXILIARY PROPULSION  
COMPOUND HELICOPTERS  
ENGINEERING  
FUNCTIONAL DESIGN SPECIFICATIONS  
MECHANICAL ENGINEERING  
PROPULSION  
STRUCTURAL ENGINEERING

**AERONAUTICAL SATELLITES**

GS ARTIFICIAL SATELLITES  
COMMUNICATION SATELLITES  
AERONAUTICAL SATELLITES  
AEROSAT SATELLITES  
RT AERONAUTICS  
AIR TRAFFIC CONTROL  
AIRCRAFT APPROACH SPACING  
AIRCRAFT COMMUNICATION  
GROUND-AIR-GROUND COMMUNICATION  
RESCUE OPERATIONS  
SATELLITE NETWORKS

**AERONAUTICS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
UF AVIATION  
RT AEROACOUSTICS  
AERODYNAMICS  
AERONAUTICAL ENGINEERING  
AERONAUTICAL SATELLITES  
AEROSPACE ENGINEERING  
AEROSPACE SCIENCES  
AIR LAW  
AIRCRAFT  
AIRPORTS  
AVIONICS  
CIVIL AVIATION  
FLIGHT  
GENERAL AVIATION AIRCRAFT  
HUMAN FACTORS ENGINEERING  
MILITARY AVIATION  
SCIENCE  
TACT PROGRAM

**AEROPHYSICS**

USE ATMOSPHERIC PHYSICS

**AEROQUATIC VEHICLES**

RT AIRCRAFT DESIGN  
ATTACK AIRCRAFT  
MILITARY VEHICLES  
UNDERWATER PROPULSION  
UNDERWATER VEHICLES

**AEROSAT SATELLITES**

GS ARTIFICIAL SATELLITES  
COMMUNICATION SATELLITES  
AERONAUTICAL SATELLITES  
AEROSAT SATELLITES  
ESA SATELLITES  
AEROSAT SATELLITES  
NAVIGATION SATELLITES  
AEROSAT SATELLITES  
SYNCHRONOUS SATELLITES  
AEROSAT SATELLITES  
ESA SPACECRAFT  
ESA SATELLITES  
AEROSAT SATELLITES  
RT EUROPEAN SPACE PROGRAMS  
SATELLITE NETWORKS

**AEROSPACE ENGINEERING**

UF SPACE SYSTEMS ENGINEERING

**AEROSPACE ENGINEERING-(CONT.)**

GS AEROSPACE ENGINEERING  
AERONAUTICAL ENGINEERING  
RT AERONAUTICS  
AEROSPACE SCIENCES  
AIRCRAFT  
ENGINEERING  
MECHANICAL ENGINEERING  
MISSILE DESIGN  
STRUCTURAL ENGINEERING

**AEROSPACE INDUSTRY**

GS INDUSTRIES  
AEROSPACE INDUSTRY  
RT AIRCRAFT INDUSTRY  
AIRCRAFT  
COMMERCIAL SPACECRAFT  
SPACE COMMERCIALIZATION

**AEROSPACE PLANES**

GS AEROSPACE VEHICLES  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
X-30 VEHICLE  
MANEUVERABLE SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
X-30 VEHICLE  
MANNED SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
X-30 VEHICLE  
REENTRY VEHICLES  
RECOVERABLE SPACECRAFT  
REUSABLE SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
X-30 VEHICLE  
SOFT LANDING SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
X-30 VEHICLE  
RT AIRCRAFT  
ASTRO VEHICLE  
BOOSTGLIDE VEHICLES  
BURAN SPACE SHUTTLE  
GLIDERS  
HYPERSONIC AIRCRAFT  
HYPERSONIC GLIDERS  
LAUNCH VEHICLES  
LIFTING REENTRY VEHICLES  
LIQUID AIR CYCLE ENGINES  
MILITARY SPACECRAFT  
NATIONAL AEROSPACE PLANE  
PROGRAM  
RESEARCH AIRCRAFT  
ROCKET PLANES  
TRANSATMOSPHERIC VEHICLES  
X-20 AIRCRAFT

**AEROSPACE SCIENCES**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
UF SPACE SCIENCES  
RT AERODYNAMICS  
AERONAUTICS  
AEROSPACE ENGINEERING  
AEROSPACE ENVIRONMENTS  
AEROSPACE MEDICINE  
AEROSPACE SYSTEMS  
ASTRONOMY  
COMMITTEE ON SPACE RESEARCH  
ENVIRONMENTAL ENGINEERING  
EXTRATERRESTRIAL RADIATION  
SPACE LABORATORIES

**AEROSPACE SYSTEMS**

RT AEROSPACE SCIENCES  
CONTROL SYSTEMS DESIGN  
MISSILE SYSTEMS  
SYSTEMS  
SYSTEMS ENGINEERING

**AEROSPACE VEHICLES**

GS AEROSPACE VEHICLES  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
X-30 VEHICLE  
FLEXIBLE SPACECRAFT  
RT AIRCRAFT  
COMMERCIAL SPACECRAFT  
SPACECRAFT  
TRANSATMOSPHERIC VEHICLES

**AEROSTATICS**

GS STATICS  
AEROSTATICS  
RT BUOYANCY  
DYNAMICS  
EQUILIBRIUM  
FLUID MECHANICS  
HYDROSTATICS

**AEROSTATS**

USE AIRSHIPS

**AEROTHERMOCHEMISTRY**

GS ENVIRONMENTAL CHEMISTRY  
AEROTHERMOCHEMISTRY  
THERMOCHEMISTRY  
AEROTHERMOCHEMISTRY  
RT ABLATION  
AERODYNAMIC HEATING  
AEROTHERMODYNAMICS  
ATMOSPHERIC CHEMISTRY  
CHEMICAL ENGINEERING  
CHEMISTRY  
NOZZLE FLOW  
PHYSICAL CHEMISTRY  
PYROMETALLURGY  
REENTRY PHYSICS  
REENTRY SHIELDING  
REENTRY VEHICLES

**AEROTHERMODYNAMICS**

GS FLUID MECHANICS  
FLUID DYNAMICS  
GAS DYNAMICS  
AERODYNAMICS  
AEROTHERMODYNAMICS  
THERMODYNAMICS  
RT AEROTHERMODYNAMICS  
AERODYNAMIC HEAT TRANSFER  
AERODYNAMIC HEATING  
AEROELASTICITY  
AEROTHERMOCHEMISTRY  
ASSET PROJECT  
BOUNDARY LAYER PLASMAS  
CHEMISTRY  
COMBUSTION PHYSICS  
DYNAMICS  
HYPERSONIC HEAT TRANSFER  
HYPERSONIC REENTRY  
HYPERSONICS  
RANKINE-HUGONIOT RELATION  
REENTRY  
REENTRY PHYSICS  
SCIENCE  
SKIN TEMPERATURE (NON-BIOLOGICAL)  
SUPERSONICS  
THERMOELASTICITY

**AEROTHERMOELASTICITY**

GS MECHANICAL PROPERTIES  
ELASTIC PROPERTIES  
AEROELASTICITY  
AEROTHERMOELASTICITY  
THERMOELASTICITY  
AEROTHERMOELASTICITY

**AFCS (CONTROL SYSTEM)**

USE AUTOMATIC FLIGHT CONTROL

**AFTERBODIES**

UF CYLINDRICAL AFTERBODIES  
STERNS  
RT AIRCRAFT STRUCTURES  
BASE HEATING  
BOATTAILS  
BODIES  
CENTERBODIES  
CONICAL BODIES  
CYLINDRICAL BODIES  
FLARED BODIES  
FOREBODIES  
SKIRTS  
SWING TAIL ASSEMBLIES  
TAIL ASSEMBLIES

**AFTERBURNERS**

USE AFTERBURNING

**AFTERBURNING**

UF AFTERBURNERS  
GS COMBUSTION  
AFTERBURNING  
RT BURNERS  
EXHAUST SYSTEMS  
INFRARED SUPPRESSION

## AGENA A ROCKET VEHICLE

### AFTERBURNING-(CONT.)

INTERNAL COMBUSTION ENGINES  
J-57 ENGINE  
J-57-P-20 ENGINE  
JET ENGINES  
THRUST AUGMENTATION

### AGENA A ROCKET VEHICLE

GS ROCKET VEHICLES  
.. SINGLE STAGE ROCKET VEHICLES  
.. AGENA ROCKET VEHICLES  
.. AGENA A ROCKET VEHICLE  
RT DISCOVERER SATELLITES  
THOR AGENA LAUNCH VEHICLE

### AGENA B ROCKET VEHICLE

GS ROCKET VEHICLES  
.. SINGLE STAGE ROCKET VEHICLES  
.. AGENA ROCKET VEHICLES  
.. AGENA B ROCKET VEHICLE  
RT DISCOVERER SATELLITES  
ECHO SATELLITES  
EGO  
GEMINI PROJECT  
MARINER PROGRAM  
OAO  
POGO  
RANGER PROJECT

### AGENA C ROCKET VEHICLE

GS ROCKET VEHICLES  
.. SINGLE STAGE ROCKET VEHICLES  
.. AGENA ROCKET VEHICLES  
.. AGENA C ROCKET VEHICLE

### AGENA D ROCKET VEHICLE

GS ROCKET VEHICLES  
.. SINGLE STAGE ROCKET VEHICLES  
.. AGENA ROCKET VEHICLES  
.. AGENA D ROCKET VEHICLE

### AGENA ROCKET VEHICLES

GS ROCKET VEHICLES  
.. SINGLE STAGE ROCKET VEHICLES  
.. AGENA ROCKET VEHICLES  
.. AGENA A ROCKET VEHICLE  
.. AGENA B ROCKET VEHICLE  
.. AGENA C ROCKET VEHICLE  
.. AGENA D ROCKET VEHICLE  
RT ATLAS AGENA B LAUNCH VEHICLE  
ATLAS AGENA LAUNCH VEHICLES  
DISCOVERER SATELLITES  
ECHO SATELLITES  
GEMINI PROJECT  
MARINER PROGRAM  
RANGER PROJECT  
THOR AGENA LAUNCH VEHICLE

### AGRICULTURAL AIRCRAFT

GS GENERAL AVIATION AIRCRAFT  
.. AGRICULTURAL AIRCRAFT  
RT AGRICULTURE  
.. AIRCRAFT  
.. CROP DUSTING  
.. LIGHT AIRCRAFT  
.. SWATH WIDTH

### AH-1G HELICOPTER

GS V/STOL AIRCRAFT  
.. ROTARY WING AIRCRAFT  
.. HELICOPTERS  
.. MILITARY HELICOPTERS  
.. AH-1G HELICOPTER  
RT .. MILITARY AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT

### AH-63 HELICOPTER

GS ATTACK AIRCRAFT  
.. AH-63 HELICOPTER  
.. BELL AIRCRAFT  
.. AH-63 HELICOPTER  
RT .. MILITARY AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT

### AH-64 HELICOPTER

GS ATTACK AIRCRAFT  
.. AH-64 HELICOPTER  
.. HUGHES AIRCRAFT  
.. AH-64 HELICOPTER  
.. V/STOL AIRCRAFT  
.. ROTARY WING AIRCRAFT  
.. HELICOPTERS  
.. MILITARY HELICOPTERS  
.. AH-64 HELICOPTER

### AH-64 HELICOPTER-(CONT.)

RT .. MILITARY AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT

### AILERONS

GS AIRFOILS  
.. AILERONS  
.. FLAPERONS  
.. SPOILER SLOT AILERONS  
.. CONTROL SURFACES  
.. AILERONS  
.. FLAPERONS  
.. SPOILER SLOT AILERONS  
RT ELEVATORS (CONTROL SURFACES)  
ELEVONS  
LATERAL CONTROL  
TABS (CONTROL SURFACES)

### AIR

GS GASES  
.. GAS MIXTURES  
.. AIR  
.. ALVEOLAR AIR  
.. COMPRESSED AIR  
.. EXPIRED AIR  
.. HIGH TEMPERATURE AIR  
.. LIQUID AIR  
.. MIXTURES  
.. SOLUTIONS  
.. GAS MIXTURES  
.. AIR  
.. ALVEOLAR AIR  
.. COMPRESSED AIR  
.. EXPIRED AIR  
.. HIGH TEMPERATURE AIR  
.. LIQUID AIR  
RT AIR DATA SYSTEMS  
.. ATMOSPHERES  
.. ATMOSPHERIC COMPOSITION  
.. EARTH ATMOSPHERE  
.. ENVIRONMENTS  
.. MIDDLE ATMOSPHERE

### AIR BLASTS

USE AERIAL EXPLOSIONS

### AIR BREATHING ENGINES

GS ENGINES  
.. AIR BREATHING ENGINES  
.. GAS TURBINE ENGINES  
.. JET ENGINES  
.. RAMJET ENGINES  
.. INTEGRAL ROCKET RAMJETS  
.. LOW VOLUME RAMJET ENGINES  
.. PULSEJET ENGINES  
.. SUPERSONIC COMBUSTION  
.. RAMJET ENGINES  
.. TURBORAMJET ENGINES  
.. TURBOJET ENGINES  
.. BRISTOL-SIDDELEY OLYMPUS  
.. 593 ENGINE  
.. BRISTOL-SIDDELEY VIPER  
.. ENGINE  
.. DUCTED FAN ENGINES  
.. J-33 ENGINE  
.. J-34 ENGINE  
.. J-47 ENGINE  
.. J-57 ENGINE  
.. J-57-P-20 ENGINE  
.. J-65 ENGINE  
.. J-69-T-25 ENGINE  
.. J-71 ENGINE  
.. J-73 ENGINE  
.. J-75 ENGINE  
.. J-79 ENGINE  
.. J-85 ENGINE  
.. J-93 ENGINE  
.. RA-28 ENGINE  
.. TURBOFAN ENGINES  
.. BRISTOL-SIDDELEY BS 53  
.. ENGINE  
.. CF-700 ENGINE  
.. CONVERTIBLE FAN-SHAFT  
.. ENGINES  
.. J-97 ENGINE  
.. TF-41 ENGINE  
.. TURBOPROP ENGINES  
.. T-53 ENGINE  
.. T-56 ENGINE  
.. T-64 ENGINE  
.. T-74 ENGINE  
.. TURBORAMJET ENGINES  
.. T-58-GE-88 ENGINE  
RT AIR BREATHING BOOSTERS

### AIR COOLING

SN (COOLING WITH AIR)  
GS COOLING  
.. AIR COOLING  
RT COOLANTS  
COOLERS  
COOLING SYSTEMS  
LIQUID COOLING  
REFRIGERATING  
VENTILATION

### AIR CURRENTS

GS FLUID FLOW  
.. GAS FLOW  
.. AIR FLOW  
.. AIR CURRENTS  
.. JET STREAMS (METEOROLOGY)  
.. MERIDIONAL FLOW  
.. VERTICAL AIR CURRENTS  
RT ATMOSPHERIC CIRCULATION  
BAROTROPIC FLOW  
BOUNDARY LAYER FLOW  
BOUNDARY LAYER TRANSITION  
BRUNT-VAISALA FREQUENCY  
CONVECTION CLOUDS  
CONVECTION CURRENTS  
.. CURRENTS  
.. GROUND WIND  
.. LEE WAVES  
.. SEA BREEZE  
.. UPSTREAM  
.. WIND (METEOROLOGY)  
.. WINDPOWER UTILIZATION  
.. ZONAL FLOW (METEOROLOGY)

### AIR CUSHION LANDING SYSTEMS

RT AIRCRAFT LANDING  
CUSHIONS  
GROUND EFFECT (AERODYNAMICS)  
SKID LANDINGS  
.. SYSTEMS

### AIR CUSHION VEHICLES

USE GROUND EFFECT MACHINES

### AIR DATA SYSTEMS

SN (LIMITED TO FLIGHT DATA SYSTEMS)  
GS DATA SYSTEMS  
.. AIR DATA SYSTEMS  
RT AIR  
.. AIRCRAFT  
.. SPACECRAFT  
.. TABLES (DATA)  
.. WIND TUNNEL TESTS

### AIR DEFENSE

GS AIR DEFENSE  
.. ANTIMISSILE DEFENSE  
.. SAGE AIR DEFENSE SYSTEM  
RT ANTIRADIATION MISSILES  
BALLISTIC MISSILE EARLY WARNING  
SYSTEM  
CAMOUFLAGE  
CIVIL DEFENSE  
DECEPTION  
.. DEFENSE  
.. DEFENSE PROGRAM  
.. DMSP SATELLITES  
.. EARLY WARNING SYSTEMS  
.. ELECTRONIC WARFARE  
.. JAMMERS  
.. OPTICAL COUNTERMEASURES  
.. SABOTAGE  
.. SPACE SURVEILLANCE (GROUND  
.. BASED)  
.. SPACE SURVEILLANCE (SPACEBORNE)  
.. WEAPONS DELIVERY

### AIR DROP OPERATIONS

RT BAILOUT  
BALLUTES  
CARGO  
DELIVERY  
FREE FALL  
.. OPERATIONS  
.. PARACHUTES  
.. PARAVULCOONS  
.. PARAWINGS

### AIR DUCTS

GS DUCTS  
.. AIR DUCTS  
RT ANNULAR DUCTS  
BLOWERS  
EXHAUST NOZZLES

## AIR TRAFFIC CONTROL

### AIR DUCTS-(CONT.)

∞ FANS  
GAS FLOW  
VENTILATORS

### AIR FLOW

GS FLUID FLOW  
GAS FLOW  
AIR FLOW  
AIR CURRENTS  
JET STREAMS (METEOROLOGY)  
MERIDIONAL FLOW  
VERTICAL AIR CURRENTS  
RT AERODYNAMIC INTERFERENCE  
ATMOSPHERIC BOUNDARY LAYER  
BAROTROPIC FLOW  
BRUNT-VAISALA FREQUENCY  
COMPRESSIBLE FLOW  
CURRENTS  
DUCT GEOMETRY  
DUCTED FLOW  
STREAMLINING  
STREAMS  
VENTILATION

### AIR INLETS

USE AIR INTAKES

### AIR INTAKES

UF AIR INLETS  
GS INTAKE SYSTEMS  
AIR INTAKES  
ENGINE INLETS  
HYPERSONIC INLETS  
INLET AIRFRAME CONFIGURATIONS  
SUPERSONIC INLETS  
RT BYPASS RATIO  
CONICAL INLETS  
COWLINGS  
INLET NOZZLES  
INLET TEMPERATURE  
INTERNAL COMPRESSION INLETS  
MANIFOLDS  
NACELLES  
NOSF INLETS  
PLENUM CHAMBERS  
SCOOPS  
SIDE INLETS  
SUPERCHARGERS  
SUPERSONIC DIFFUSERS  
VENTILATION  
VENTILATORS  
∞ WATER INTAKES

### AIR JETS

GS FLUID FLOW  
JET FLOW  
AIR JETS  
FLUID JETS  
AIR JETS  
RT GAS FLOW  
GAS JETS  
JET STREAMS (METEOROLOGY)  
JETS  
VAPOR JETS

### AIR LAUNCHING

GS LAUNCHING  
AIR LAUNCHING  
RT MULTISTAGE ROCKET VEHICLES  
PEGASUS AIR-LAUNCHED BOOSTER  
PIGGYBACK SYSTEMS

### AIR LAW

GS LAW (JURISPRUDENCE)  
INTERNATIONAL LAW  
AIR LAW  
RT AERONAUTICS  
AIRSPACE  
CIVIL AVIATION  
CONVENTIONS  
INSURANCE (CONTRACTS)  
LEGAL LIABILITY  
LIABILITIES  
MILITARY AVIATION  
NATIONAL AIRSPACE UTILIZATION  
SYSTEM  
PENALTIES  
POLITICS  
PUBLIC LAW  
REGULATIONS  
SPACE LAW

### AIR LOCKS

GS COMPARTMENTS

### AIR LOCKS-(CONT.)

AIR LOCKS  
RT AIRLOCK MODULES  
DOORS  
EGRESS  
ENCLOSURES  
HATCHES  
INGRESS (SPACECRAFT PASSAGEWAY)  
LOCKS  
PRESSURE CHAMBERS  
SEALS (STOPPERS)

### AIR MAIL

GS CARGO  
AIR CARGO  
AIR MAIL

### AIR NAVIGATION

GS NAVIGATION  
AIR NAVIGATION  
ALL-WEATHER AIR NAVIGATION  
AREA NAVIGATION  
NAP-OF-THE-EARTH NAVIGATION  
RT ASTRONAVIGATION  
BORESIGHT ERROR  
CELESTIAL NAVIGATION  
CELESTIAL REFERENCE SYSTEMS  
COLLISION AVOIDANCE  
CONTROL  
DEAD RECKONING  
DIGITAL NAVIGATION  
DOPPLER NAVIGATION  
FLIGHT INSTRUMENTS  
FLIGHT MANAGEMENT SYSTEMS  
FLIGHT PATHS  
FLIGHT PLANS  
FLIGHT RULES  
GUIDANCE (MOTION)  
HYPERBOLIC NAVIGATION  
INERTIAL NAVIGATION  
INSTRUMENT FLIGHT RULES  
LORAN  
LORAN C  
LORAN D  
NATIONAL AIRSPACE UTILIZATION  
SYSTEM  
NAVIGATION AIDS  
OMEGA NAVIGATION SYSTEM  
POLAR NAVIGATION  
RADAR NAVIGATION  
RADIO NAVIGATION  
SHORAN  
SOLAR COMPASSES  
SPACE NAVIGATION  
TACAN  
VHF OMNIRANGE NAVIGATION  
VISUAL FLIGHT

### AIR PIRACY

UF HIJACKING  
RT AIRCRAFT SAFETY  
AIRPORT SECURITY  
CRIME  
FLIGHT HAZARDS  
FLIGHT SAFETY  
OPERATIONAL HAZARDS

### AIR SLEW MISSILES

GS MISSILES  
AIR SLEW MISSILES  
RT MANEUVERABILITY  
ROCKETS  
SOLID PROPELLANT ROCKET ENGINES  
THRUST VECTOR CONTROL

### AIR TO AIR MISSILES

UF AIR TO AIR ROCKETS  
GS MISSILES  
AIR TO AIR MISSILES  
FALCON MISSILE  
MATRA MISSILE  
SIDEWINDER MISSILES  
SPARROW MISSILES  
SPARROW 2 MISSILE  
SPARROW 3 MISSILE  
RT ANTIAIRCRAFT MISSILES  
RAMJET MISSILES  
SIAM MISSILES  
SPACE WEAPONS  
SURFACE TO AIR MISSILES

### AIR TO AIR REFUELING

GS REFUELING  
AIR TO AIR REFUELING  
RT TANKER AIRCRAFT

### AIR TO AIR ROCKETS

USE AIR TO AIR MISSILES

### AIR TO SURFACE MISSILES

GS MISSILES  
AIR TO SURFACE MISSILES  
BULLPUP MISSILES  
CONDOR MISSILE  
HARPOON MISSILE  
HOUND DOG MISSILE  
MAVERICK MISSILES  
QUAIL MISSILE  
SHRIKE MISSILE  
RT MISS DISTANCE  
ORDNANCE  
SURFACE TO AIR MISSILES  
SURFACE TO SURFACE MISSILES  
SURFACES  
WEAPON SYSTEMS

### AIR TRAFFIC

GS TRAFFIC  
AIR TRAFFIC  
RT AIRCRAFT HAZARDS  
AIRLINE OPERATIONS  
AIRSPACE  
COLLISION AVOIDANCE  
FLIGHT HAZARDS  
FLIGHT PATHS  
FLIGHT PLANS  
NATIONAL AIRSPACE UTILIZATION  
SYSTEM  
NATIONAL AVIATION SYSTEM

### AIR TRAFFIC CONTROL

GS GROUND BASED CONTROL  
AIR TRAFFIC CONTROL  
AUTOMATED EN ROUTE ATC  
RADAR APPROACH CONTROL  
TRAFFIC CONTROL  
AIR TRAFFIC CONTROL  
AUTOMATED EN ROUTE ATC  
RADAR APPROACH CONTROL  
RT AERONAUTICAL SATELLITES  
AIRBORNE RADAR APPROACH  
AIRCRAFT APPROACH SPACING  
AIRCRAFT COMMUNICATION  
AIRCRAFT GUIDANCE  
AIRCRAFT SAFETY  
AIRPORT SURFACE DETECTION  
EQUIPMENT  
AIRPORT TOWERS  
AIRPORTS  
AIRSPACE  
APPROACH  
APPROACH CONTROL  
APPROACH INDICATORS  
ATTITUDE CONTROL  
AUTOMATED PILOT ADVISORY SYSTEM  
AUTOMATED RADAR TERMINAL SYSTEM  
BEACON COLLISION AVOIDANCE  
SYSTEM  
COLLISION AVOIDANCE  
COLLISIONS  
CONTROL  
DISCRETE ADDRESS BEACON SYSTEM  
FLIGHT ALTITUDE  
FLIGHT CONTROL  
FLIGHT MANAGEMENT SYSTEMS  
FLIGHT PATHS  
FLIGHT PLANS  
FLIGHT RULES  
FLIGHT SAFETY  
FLIGHT TIME  
GROUND SUPPORT EQUIPMENT  
GROUND-AIR-GROUND COMMUNICATION  
HELIPORTS  
INSTRUMENT FLIGHT RULES  
INSTRUMENT LANDING SYSTEMS  
LANDING  
LANDING AIDS  
LANDING INSTRUMENTS  
LANDING RADAR  
LOCATES SYSTEM  
MICROWAVE LANDING SYSTEMS  
MIDAIR COLLISIONS  
MILITARY AIR FACILITIES  
NATIONAL AIRSPACE SYSTEM  
NATIONAL AIRSPACE UTILIZATION  
SYSTEM  
NATIONAL AVIATION SYSTEM  
NAVIGATION AIDS  
OPERATIONS  
RADAR NAVIGATION  
RADIO NAVIGATION

## AIR TRAFFIC CONTROLLERS (PERSONNEL)

### AIR TRAFFIC CONTROL-(CONT.)

ROUTES  
SOLAR COMPASSES  
SURVEILLANCE RADAR  
TAKEOFF  
TAXIING  
TOWERS  
TRACKING (POSITION)  
TRANSPONDERS  
VORTEX ADVISORY SYSTEM  
VORTEX AVOIDANCE

### AIR TRAFFIC CONTROLLERS (PERSONNEL)

GS PERSONNEL  
AIR TRAFFIC CONTROLLERS  
(PERSONNEL)  
RT AIRPORT TOWERS  
GROUND BASED CONTROL  
LANDING AIDS  
TRAFFIC CONTROL

### AIR TRANSPORTATION

GS TRANSPORTATION  
AIR TRANSPORTATION  
RT AIRLINE OPERATIONS  
COMMERCIAL AIRCRAFT  
COMMUTER AIRCRAFT  
COMPOUND HELICOPTERS  
GENERAL AVIATION AIRCRAFT  
MARINE TRANSPORTATION  
NATIONAL AVIATION SYSTEM  
PASSENGER AIRCRAFT  
RAPID TRANSIT SYSTEMS  
SHORT HAUL AIRCRAFT  
TRANSPORT AIRCRAFT

### AIRBORNE EQUIPMENT

GS ONBOARD EQUIPMENT  
AIRBORNE EQUIPMENT  
AIRBORNE/SPACEBORNE  
COMPUTERS  
LIGHT AIRBORNE MULTIPURPOSE  
SYSTEM  
TERCOM  
RT ADVANCED RANGE INSTRUMENTATION  
AIRCRAFT  
AIRCRAFT COMMUNICATION  
AIRCRAFT EQUIPMENT  
ASTROPLANE  
AUTOMATIC LANDING CONTROL  
AVIONICS  
BALLOON-BORNE INSTRUMENTS  
ELECTRIC EQUIPMENT  
EQUIPMENT  
FLIGHT INSTRUMENTS  
HYDRAULIC EQUIPMENT  
KUIPER AIRBORNE OBSERVATORY  
MAP MATCHING GUIDANCE  
MATTS (SYSTEMS)  
RADAR EQUIPMENT  
RADIO EQUIPMENT  
VACUUM ARC SWITCHES

### AIRBORNE INTEGRATED RECONNAISSANCE SYSTEM

UF AIRS (RECONNAISSANCE SYS)  
GS RECONNAISSANCE  
AERIAL RECONNAISSANCE  
AIRBORNE INTEGRATED  
RECONNAISSANCE SYSTEM  
RT GROUND TRUTH  
PHOTORECONNAISSANCE  
SYSTEMS  
TARGETS

### AIRBORNE RADAR APPROACH

GS APPROACH  
AIRBORNE RADAR APPROACH  
RT AIR TRAFFIC CONTROL  
AIRCRAFT APPROACH SPACING  
HELICOPTER CONTROL  
HELICOPTERS  
LANDING AIDS  
RADAR APPROACH CONTROL

### AIRBORNE RANGE AND ORBIT DETERMINATION

UF AROD (RANGE-ORBIT DETERMINATION)  
GS RANGEFINDING  
AIRBORNE RANGE AND ORBIT  
DETERMINATION  
RT MEASUREMENT  
ORBITS

### AIRBORNE WARNING AND CONTROL SYSTEM

USE AWACS AIRCRAFT

### AIRBUS

USE EUROPEAN AIRBUS

### AIRCRAFT

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)

UF AERODYNAMIC VEHICLES  
RT A-1 AIRCRAFT  
A-2 AIRCRAFT  
A-3 AIRCRAFT  
A-4 AIRCRAFT  
A-5 AIRCRAFT  
A-6 AIRCRAFT  
A-7 AIRCRAFT  
A-9 AIRCRAFT  
A-10 AIRCRAFT  
A-37 AIRCRAFT  
A-300 AIRCRAFT  
ADVANCED RANGE INSTRUMENTATION  
AIRCRAFT  
AERODYNAMICS  
AERONAUTICAL ENGINEERING  
AERONAUTICS  
AEROSPACE ENGINEERING  
AEROSPACE INDUSTRY  
AEROSPACE PLANES  
AEROSPACE VEHICLES  
AGRICULTURAL AIRCRAFT  
AIR DATA SYSTEMS  
AIRCRAFT ACCIDENT INVESTIGATION  
AIRCRAFT ACCIDENTS  
AIRCRAFT ANTENNAS  
AIRCRAFT APPROACH SPACING  
AIRCRAFT BRAKES  
AIRCRAFT CARRIERS  
AIRCRAFT COMMUNICATION  
AIRCRAFT COMPARTMENTS  
AIRCRAFT CONFIGURATIONS  
AIRCRAFT CONSTRUCTION MATERIALS  
AIRCRAFT CONTROL  
AIRCRAFT DESIGN  
AIRCRAFT DETECTION  
AIRCRAFT ENGINES  
AIRCRAFT EQUIPMENT  
AIRCRAFT FUEL SYSTEMS  
AIRCRAFT FUELS  
AIRCRAFT GUIDANCE  
AIRCRAFT HAZARDS  
AIRCRAFT HYDRAULIC SYSTEMS  
AIRCRAFT INDUSTRY  
AIRCRAFT INSTRUMENTS  
AIRCRAFT LANDING  
AIRCRAFT LIGHTS  
AIRCRAFT MAINTENANCE  
AIRCRAFT MANEUVERS  
AIRCRAFT NOISE  
AIRCRAFT PARTS  
AIRCRAFT PERFORMANCE  
AIRCRAFT PILOTS  
AIRCRAFT PRODUCTION  
AIRCRAFT PRODUCTION COSTS  
AIRCRAFT RELIABILITY  
AIRCRAFT RUNUP  
AIRCRAFT SAFETY  
AIRCRAFT SPECIFICATIONS  
AIRCRAFT SPIN  
AIRCRAFT STABILITY  
AIRCRAFT STRUCTURES  
AIRCRAFT SURVIVABILITY  
AIRCRAFT TIRES  
AIRCRAFT WAKES  
AIRSHIPS  
ALADIN 2 AIRCRAFT  
ALOUETTE HELICOPTERS  
ALPHA JET AIRCRAFT  
AMPHIBIOUS AIRCRAFT  
AN-2 AIRCRAFT  
AN-22 AIRCRAFT  
AN-24 AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
ANTONOV AIRCRAFT  
ARGOSY MK-1 AIRCRAFT  
ASSET GLIDERS  
ATLIT PROJECT  
ATTACK AIRCRAFT  
AVRO 707 AIRCRAFT  
AWACS AIRCRAFT  
B-1 AIRCRAFT  
B-26 AIRCRAFT  
B-47 AIRCRAFT  
B-50 AIRCRAFT  
B-52 AIRCRAFT  
B-57 AIRCRAFT  
B-58 AIRCRAFT  
B-66 AIRCRAFT

### AIRCRAFT-(CONT.)

B-70 AIRCRAFT  
BAC AIRCRAFT  
BAC 111 AIRCRAFT  
BALLOONS  
BEAGLE AIRCRAFT  
BEECH 99 AIRCRAFT  
BEECHCRAFT AIRCRAFT  
BEECHCRAFT 18 AIRCRAFT  
BELL AIRCRAFT  
BELL 214A HELICOPTER  
BIPLANES  
BIRD-AIRCRAFT COLLISIONS  
BOEING AIRCRAFT  
BOEING 707 AIRCRAFT  
BOEING 720 AIRCRAFT  
BOEING 727 AIRCRAFT  
BOEING 733 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOEING 747 AIRCRAFT  
BOEING 757 AIRCRAFT  
BOEING 767 AIRCRAFT  
BOEING 2707 AIRCRAFT  
BOLKOW AIRCRAFT  
BOMBER AIRCRAFT  
BOOSTGLIDE VEHICLES  
BREGUET AIRCRAFT  
BREGUET 940 AIRCRAFT  
BREGUET 941 AIRCRAFT  
BREGUET 1150 AIRCRAFT  
BUCCANEER AIRCRAFT  
C-1A AIRCRAFT  
C-2 AIRCRAFT  
C-5 AIRCRAFT  
C-8A AUGMENTOR WING AIRCRAFT  
C-9 AIRCRAFT  
C-15 AIRCRAFT  
C-33 AIRCRAFT  
C-35 AIRCRAFT  
C-46 AIRCRAFT  
C-47 AIRCRAFT  
C-54 AIRCRAFT  
C-118 AIRCRAFT  
C-119 AIRCRAFT  
C-121 AIRCRAFT  
C-123 AIRCRAFT  
C-124 AIRCRAFT  
C-130 AIRCRAFT  
C-131 AIRCRAFT  
C-133 AIRCRAFT  
C-135 AIRCRAFT  
C-140 AIRCRAFT  
C-141 AIRCRAFT  
C-160 AIRCRAFT  
CANADAIR AIRCRAFT  
CANBERRA AIRCRAFT  
CARGO AIRCRAFT  
CEILING (AIRCRAFT CAPABILITY)  
CESSNA AIRCRAFT  
CESSNA L-19 AIRCRAFT  
CESSNA 172 AIRCRAFT  
CESSNA 205 AIRCRAFT  
CESSNA 402B AIRCRAFT  
CHANCE-VOUGHT AIRCRAFT  
CHINESE AIRCRAFT  
CL-41 AIRCRAFT  
CL-44 AIRCRAFT  
CL-84 AIRCRAFT  
CL-600 CHALLENGER AIRCRAFT  
CL-823 AIRCRAFT  
COIN AIRCRAFT  
COMET 4 AIRCRAFT  
COMMERCIAL AIRCRAFT  
COMMUTER AIRCRAFT  
COMPOUND HELICOPTERS  
CONCORDE AIRCRAFT  
CURTISS-WRIGHT AIRCRAFT  
CV-340 AIRCRAFT  
CV-440 AIRCRAFT  
CV-880 AIRCRAFT  
CV-990 AIRCRAFT  
D-558 AIRCRAFT  
DASSAULT AIRCRAFT  
DC 3 AIRCRAFT  
DC 7 AIRCRAFT  
DC 8 AIRCRAFT  
DC 9 AIRCRAFT  
DC 10 AIRCRAFT  
DE HAVILLAND AIRCRAFT  
DH 112 AIRCRAFT  
DH 115 AIRCRAFT  
DH 121 AIRCRAFT  
DH 125 AIRCRAFT  
DHC 2 AIRCRAFT  
DHC 4 AIRCRAFT  
DHC 5 AIRCRAFT



AIRCRAFT-(CONT.)

DO-27 AIRCRAFT  
DO-28 AIRCRAFT  
DO-31 AIRCRAFT  
DORNIER AIRCRAFT  
DOUGLAS AIRCRAFT  
DRONE AIRCRAFT  
E-2 AIRCRAFT  
E-3A AIRCRAFT  
E-4A AIRCRAFT  
EARTH RESOURCES SURVEY AIRCRAFT  
EC-121 AIRCRAFT  
ELECTRA AIRCRAFT  
ELECTRONIC AIRCRAFT  
EUROPEAN AIRBUS  
F-2 AIRCRAFT  
F-4 AIRCRAFT  
F-5 AIRCRAFT  
F-8 AIRCRAFT  
F-9 AIRCRAFT  
F-14 AIRCRAFT  
F-15 AIRCRAFT  
F-16 AIRCRAFT  
F-17 AIRCRAFT  
F-18 AIRCRAFT  
F-27 AIRCRAFT  
F-28 TRANSPORT AIRCRAFT  
F-84 AIRCRAFT  
F-86 AIRCRAFT  
F-89 AIRCRAFT  
F-94 AIRCRAFT  
F-100 AIRCRAFT  
F-101 AIRCRAFT  
F-102 AIRCRAFT  
F-104 AIRCRAFT  
F-105 AIRCRAFT  
F-106 AIRCRAFT  
F-111 AIRCRAFT  
FAIRCHILD-HILLER AIRCRAFT  
FAIREY AIRCRAFT  
FAN IN WING AIRCRAFT  
FD 2 AIRCRAFT  
FIAT AIRCRAFT  
FIGHTER AIRCRAFT  
FIREBEE 2 TARGET DRONE AIRCRAFT  
FLIGHT TEST VEHICLES  
FLYING PLATFORMS  
FOKKER AIRCRAFT  
FOLDING FIN AIRCRAFT ROCKET  
VEHICLE  
FREE WING AIRCRAFT  
FV-12A AIRCRAFT  
G-1 AIRCRAFT  
G-91 AIRCRAFT  
G-95/4 AIRCRAFT  
G-222 AIRCRAFT  
GA-5 AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
GENERAL DYNAMICS AIRCRAFT  
GETOL AIRCRAFT  
GLIDERS  
GROUND EFFECT MACHINES  
GRUMMAN AIRCRAFT  
GYRODYNE AIRCRAFT  
H-17 HELICOPTER  
H-19 HELICOPTER  
H-43 HELICOPTER  
H-53 HELICOPTER  
H-54 HELICOPTER  
H-56 HELICOPTER  
H-60 HELICOPTER  
H-126 AIRCRAFT  
HAMBURGER AIRCRAFT  
HANDLEY PAGE AIRCRAFT  
HANG GLIDERS  
HARRIER AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
HEAVY LIFT HELICOPTERS  
HEINKEL AIRCRAFT  
HELICOPTERS  
HELIO AIRCRAFT  
HFB-320 AIRCRAFT  
HIGHLY MANEUVERABLE AIRCRAFT  
HILLER AIRCRAFT  
HOVERCRAFT GROUND EFFECT  
MACHINES  
HP-115 AIRCRAFT  
HS-748 AIRCRAFT  
HS-801 AIRCRAFT  
HUGHES AIRCRAFT  
HYPERSONIC AIRCRAFT  
HYPERSONIC GLIDERS  
IL-14 AIRCRAFT  
IL-62 AIRCRAFT  
ILYUSHIN AIRCRAFT  
INFLATABLE GLIDERS

AIRCRAFT-(CONT.)

JAGUAR AIRCRAFT  
JET AIRCRAFT  
JET AIRCRAFT NOISE  
JET PROVOST AIRCRAFT  
JETSTREAM AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
KA-6 SAILPLANES  
KAMAN AIRCRAFT  
KAWASAKI AIRCRAFT  
L-1011 AIRCRAFT  
L-2000 AIRCRAFT  
LEAR JET AIRCRAFT  
LIFTING REENTRY VEHICLES  
LIGHT AIRCRAFT  
LIGHT HELICOPTERS  
LIGHT INTRATHEATER TRANSPORT  
LIGHT TRANSPORT AIRCRAFT  
LING-TEMCO-VOUGHT AIRCRAFT  
LOCKHEED AIRCRAFT  
LOCKHEED MODEL 18 AIRCRAFT  
LOW WING AIRCRAFT  
MAN POWERED AIRCRAFT  
MARTIN AIRCRAFT  
MCDONNELL AIRCRAFT  
MCDONNELL DOUGLAS AIRCRAFT  
MERCURE AIRCRAFT  
METEOROLOGICAL RESEARCH  
AIRCRAFT  
MH-262 AIRCRAFT  
MIG AIRCRAFT  
MIL AIRCRAFT  
MILITARY AIR FACILITIES  
MILITARY AIRCRAFT  
MILITARY HELICOPTERS  
MONOPLANES  
MRCA AIRCRAFT  
MULTIENGINE VEHICLES  
NAVION AIRCRAFT  
NIGHT FLIGHTS (AIRCRAFT)  
NIHON AIRCRAFT  
NOISE PREDICTION (AIRCRAFT)  
NORD AIRCRAFT  
NORD 1500 AIRCRAFT  
NORTH AMERICAN AIRCRAFT  
NORTHROP AIRCRAFT  
NUCLEAR PROPELLED AIRCRAFT  
OBSERVATION AIRCRAFT  
ONBOARD EQUIPMENT  
OV-1 AIRCRAFT  
OV-10 AIRCRAFT  
P-3 AIRCRAFT  
P-51 AIRCRAFT  
P-160 AIRCRAFT  
P-166 AIRCRAFT  
P-308 AIRCRAFT  
P-1052 AIRCRAFT  
P-1127 AIRCRAFT  
P-1154 AIRCRAFT  
PA-34 SENECA AIRCRAFT  
PANAVIA MILITARY AIRCRAFT  
PASSENGER AIRCRAFT  
PD-808 AIRCRAFT  
PHANTOM AIRCRAFT  
PIAGGIO AIRCRAFT  
PIASECKI AIRCRAFT  
PILOTLESS AIRCRAFT  
PIPER AIRCRAFT  
POTEZ AIRCRAFT  
POWERED LIFT AIRCRAFT  
PROPULSION  
QUESTOL AIRCRAFT  
RB-50 AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
REMOTELY PILOTED VEHICLES  
REPUBLIC AIRCRAFT  
RESEARCH AIRCRAFT  
RF-4 AIRCRAFT  
RIGID ROTOR HELICOPTERS  
ROCKET PLANES  
ROTARY WING AIRCRAFT  
ROTOR SYSTEMS RESEARCH AIRCRAFT  
ROTORCRAFT AIRCRAFT  
RYAN AIRCRAFT  
S-2 AIRCRAFT  
S-3 AIRCRAFT  
S-61 HELICOPTER  
S-67 HELICOPTER  
SA-321 HELICOPTER  
SA-330 HELICOPTER  
SAAB AIRCRAFT  
SAAB 37 AIRCRAFT  
SAAB 105 AIRCRAFT  
SC-1 AIRCRAFT  
SC-5 AIRCRAFT  
SC-7 AIRCRAFT

AIRCRAFT-(CONT.)

SCHLEICHER AIRCRAFT  
SCIMITAR AIRCRAFT  
SE-210 AIRCRAFT  
SHORT HAUL AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
SIEBEL AIRCRAFT  
SIKORSKY AIRCRAFT  
SIKORSKY WHIRLWIND HELICOPTER  
SINGLE ENGINE AIRCRAFT  
SNOW AIRCRAFT  
SOLAR POWERED AIRCRAFT  
SPANLOADER AIRCRAFT  
SR-71 AIRCRAFT  
SUBMERSIBLE AIRCRAFT  
SUBSONIC AIRCRAFT  
SUD AVIATION AIRCRAFT  
SUPERSONIC AIRCRAFT  
SUPERSONIC CRUISE AIRCRAFT  
RESEARCH  
T-2 AIRCRAFT  
T-28 AIRCRAFT  
T-33 AIRCRAFT  
T-37 AIRCRAFT  
T-38 AIRCRAFT  
T-39 AIRCRAFT  
TACT PROGRAM  
TAILLESS AIRCRAFT  
TANDEM ROTOR HELICOPTERS  
TANDEM WING AIRCRAFT  
TANKER AIRCRAFT  
TARGET DRONE AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
TEST VEHICLES  
TILT ROTOR AIRCRAFT  
TILT ROTOR RESEARCH AIRCRAFT  
PROGRAM  
TILT WING AIRCRAFT  
TRAINING AIRCRAFT  
TRANSATMOSPHERIC VEHICLES  
TRANSPORT AIRCRAFT  
TS-11 AIRCRAFT  
TSR-2 AIRCRAFT  
TU-104 AIRCRAFT  
TU-124 AIRCRAFT  
TU-134 AIRCRAFT  
TU-144 AIRCRAFT  
TU-154 AIRCRAFT  
TUPOLEV AIRCRAFT  
TURBOFAN AIRCRAFT  
TURBOPROP AIRCRAFT  
U-2 AIRCRAFT  
U-10 AIRCRAFT  
ULTRALIGHT AIRCRAFT  
UNIDENTIFIED FLYING OBJECTS  
UTILITY AIRCRAFT  
V-22 AIRCRAFT  
V/STOL AIRCRAFT  
VALIANT AIRCRAFT  
VAMPIRE MK 35 AIRCRAFT  
VATOL AIRCRAFT  
VC-10 AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
VICTOR MK-1 AIRCRAFT  
VISCOUNT AIRCRAFT  
VJ-101 AIRCRAFT  
VULCAN AIRCRAFT  
VZ-2 AIRCRAFT  
VZ-8 AIRCRAFT  
WATER TAKEOFF AND LANDING  
AIRCRAFT  
WEAPONS DELIVERY  
WEATHER RECONNAISSANCE AIRCRAFT  
WESER AIRCRAFT  
WESTLAND AIRCRAFT  
WESTLAND GROUND EFFECT MACHINES  
WESTLAND WHIRLWIND HELICOPTER  
WING NACELLE CONFIGURATIONS  
WINGED VEHICLES  
X-1 AIRCRAFT  
X-2 AIRCRAFT  
X-3 AIRCRAFT  
X-5 AIRCRAFT  
X-13 AIRCRAFT  
X-14 AIRCRAFT  
X-15 AIRCRAFT  
X-19 AIRCRAFT  
X-20 AIRCRAFT  
X-21 AIRCRAFT  
X-21A AIRCRAFT  
X-22 AIRCRAFT  
X-22A AIRCRAFT  
X-24 AIRCRAFT  
X-29 AIRCRAFT  
XC-142 AIRCRAFT  
XV-3 AIRCRAFT

## AIRCRAFT ACCIDENT INVESTIGATION

### AIRCRAFT-(CONT.)

XV-4 AIRCRAFT  
XV-5 AIRCRAFT  
XV-8A AIRCRAFT  
XV-9A AIRCRAFT  
XV-11A AIRCRAFT  
XV-15 AIRCRAFT  
YAK 40 AIRCRAFT  
YC-14 AIRCRAFT  
YF-12 AIRCRAFT  
YF-16 AIRCRAFT

### AIRCRAFT ACCIDENT INVESTIGATION

GS INVESTIGATION  
ACIDENT INVESTIGATION  
AIRCRAFT ACCIDENT INVESTIGATION  
RT AIRCRAFT  
AVIATION METEOROLOGY  
INSURANCE (CONTRACTS)

### AIRCRAFT ACCIDENTS

GS AIRCRAFT ACCIDENTS  
BIRD-AIRCRAFT COLLISIONS  
RT ACCIDENTS  
AIRCRAFT  
AIRCRAFT SAFETY  
AVIATION METEOROLOGY  
COLLISIONS  
CRASH LANDING  
CRASHES  
CRASHWORTHINESS  
DITCHING (LANDING)  
FLIGHT HAZARDS  
FLIGHT SAFETY  
HUMAN FACTORS ENGINEERING  
INSURANCE (CONTRACTS)  
MALFUNCTIONS  
MIDAIR COLLISIONS  
PILOT ERROR  
WEATHER

### AIRCRAFT ANTENNAS

GS ANTENNAS  
AIRCRAFT ANTENNAS  
RT AIRCRAFT  
LOOP ANTENNAS  
MICROWAVE ANTENNAS  
MISSILE ANTENNAS  
PROTUBERANCES  
RADAR ANTENNAS  
RADIO ANTENNAS

### AIRCRAFT APPROACH SPACING

GS SPACING  
AIRCRAFT APPROACH SPACING  
RT AERONAUTICAL SATELLITES  
AIR TRAFFIC CONTROL  
AIRBORNE RADAR APPROACH  
AIRCRAFT  
AIRCRAFT SAFETY  
AIRSPACE  
APPROACH  
APPROACH CONTROL  
COLLISION AVOIDANCE  
FLIGHT SAFETY  
GLIDE PATHS  
GROUND BASED CONTROL  
INSTRUMENT APPROACH  
NATIONAL AIRSPACE UTILIZATION  
SYSTEM  
NATIONAL AVIATION SYSTEM  
VORTEX ADVISORY SYSTEM  
VORTEX AVOIDANCE

### AIRCRAFT BASES

USE MILITARY AIR FACILITIES

### AIRCRAFT BRAKES

GS BRAKES (FOR ARRESTING MOTION)  
AIRCRAFT BRAKES  
SPLIT FLAPS  
WING FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
RT AERODYNAMIC BRAKES  
AIRCRAFT  
ANTISKID DEVICES  
BALLUTES  
DRAG CHUTES  
DRAG DEVICES  
THRUST REVERSAL  
TOWED BODIES  
WHEEL BRAKES

### AIRCRAFT CABINS

USE AIRCRAFT COMPARTMENTS

### AIRCRAFT CARRIERS

GS SURFACE VEHICLES  
AIRCRAFT CARRIERS  
WATER VEHICLES  
SHIPS  
AIRCRAFT CARRIERS  
RT AIRCRAFT  
ARRESTING GEAR  
CARRIERS  
MILITARY AIR FACILITIES  
MILITARY AIRCRAFT  
MILITARY VEHICLES  
NAVY  
NUCLEAR POWERED SHIPS

### AIRCRAFT COMMUNICATION

GS COMMUNICATING  
AIRCRAFT COMMUNICATION  
TELECOMMUNICATION  
AIRCRAFT COMMUNICATION  
RT AERONAUTICAL SATELLITES  
AIR TRAFFIC CONTROL  
AIRBORNE EQUIPMENT  
AIRCRAFT  
APPROACH CONTROL  
AVIONICS  
GROUND-AIR-GROUND COMMUNICATION  
RADAR BEACONS  
RADIO COMMUNICATION  
WIRELESS COMMUNICATION

### AIRCRAFT COMPARTMENTS

UF AIRCRAFT CABINS  
AIRCRAFT INTERIORS  
GS COMPARTMENTS  
AIRCRAFT COMPARTMENTS  
RT AIRCRAFT  
BAYS (STRUCTURAL UNITS)  
CABIN ATMOSPHERES  
CABINS  
COCKPITS  
GONDOLAS  
PRESSURIZED CABINS  
WINDSHIELDS

### AIRCRAFT CONFIGURATIONS

UF FIXED-WING AIRCRAFT  
GS AIRCRAFT CONFIGURATIONS  
DROOPED AIRFOILS  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMIC INTERFERENCE  
AIRCRAFT  
COMPOUND HELICOPTERS  
CONFIGURATIONS  
CONTROL CONFIGURED VEHICLES  
FLARED BODIES  
FLIGHT VEHICLES  
JOINED WINGS  
LOW WING AIRCRAFT  
MISSILE CONFIGURATIONS  
PROPULSION SYSTEM CONFIGURATIONS  
SPACECRAFT CONFIGURATIONS  
UNDER SURFACE BLOWING  
UPPER SURFACE BLOWING  
WING ROOTS

### AIRCRAFT CONSTRUCTION

USE AIRCRAFT STRUCTURES

### AIRCRAFT CONSTRUCTION MATERIALS

GS AIRCRAFT CONSTRUCTION MATERIALS  
AIRFRAME MATERIALS  
RT AIRCRAFT  
AIRFRAMES  
CERAMIC MATRIX COMPOSITES  
COMPOSITE MATERIALS  
CONSTRUCTION MATERIALS  
FUSELAGES  
LITHIUM ALLOYS  
MATERIALS  
PLASTIC AIRCRAFT STRUCTURES  
SKIN (STRUCTURAL MEMBER)  
STRUCTURAL MEMBERS  
WINGS

### AIRCRAFT CONTROL

UF FLAP CONTROL  
GS AIRCRAFT CONTROL  
HELICOPTER CONTROL  
RT ACTIVE CONTROL  
AIR START  
AIRCRAFT

### AIRCRAFT CONTROL-(CONT.)

ATTITUDE CONTROL  
AUTOMATIC CONTROL  
AUTOMATIC FLIGHT CONTROL  
CONTROL  
CONTROL EQUIPMENT  
CONTROL SIMULATION  
CONTROL STABILITY  
CONTROL STICKS  
CONTROLLABILITY  
DAST PROGRAM  
DIRECTIONAL CONTROL  
ENGINE CONTROL  
FLIGHT CONTROL  
FLIGHT ENVELOPES  
FLIGHT INSTRUMENTS  
FLY BY TUBE CONTROL  
FLY BY WIRE CONTROL  
GROUND BASED CONTROL  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
MANEUVERABILITY  
MANUAL CONTROL  
MINOR CIRCLE TURNING FLIGHT  
PILOT INDUCED OSCILLATION  
RADIO CONTROL  
REMOTE CONTROL  
STABILITY AUGMENTATION  
TURBOJET ENGINE CONTROL  
VISUAL CONTROL

### AIRCRAFT DESIGN

GS AIRCRAFT DESIGN  
HELICOPTER DESIGN  
RT ACOUSTIC RETROFITTING  
AERODYNAMIC CONFIGURATIONS  
AEROELASTIC RESEARCH WINGS  
AERONAUTICAL ENGINEERING  
AEROQUATIC VEHICLES  
AIRCRAFT  
AIRFOILS  
CHANNEL WINGS  
COMPOUND HELICOPTERS  
COMPUTER AIDED DESIGN  
CONTROL CONFIGURED VEHICLES  
DAST PROGRAM  
DESIGN  
ENGINE AIRFRAME INTEGRATION  
ENGINE DESIGN  
ENGINE TESTS  
FREE WING AIRCRAFT  
LOFTING  
MISSILE DESIGN  
PANAVIA MILITARY AIRCRAFT  
PRODUCT DEVELOPMENT  
ROTOR SYSTEMS RESEARCH AIRCRAFT  
SHORT HAUL AIRCRAFT  
STREAMLINING  
STRUCTURAL DESIGN  
SYSTEMS ENGINEERING  
TERMINAL CONFIGURED VEHICLE  
PROGRAM  
TRANSATMOSPHERIC VEHICLES  
TU-154 AIRCRAFT  
VORTEX SHEETS  
WEIGHT REDUCTION  
YF-12 AIRCRAFT

### AIRCRAFT DETECTION

GS DETECTION  
AIRCRAFT DETECTION  
RT AIRCRAFT  
DETECTORS  
IFF SYSTEMS (IDENTIFICATION)  
INFRARED SUPPRESSION  
TRACKING (POSITION)

### AIRCRAFT ENGINES

UF AIRCRAFT POWER SOURCES  
GS AIRCRAFT ENGINES  
CONVERTIBLE FAN-SHAFT ENGINES  
HELICOPTER ENGINES  
J-52 ENGINE  
J-58 ENGINE  
J-97 ENGINE  
T-34 ENGINE  
T-38 ENGINE  
T-55 ENGINE  
T-63 ENGINE  
T-76 ENGINE  
T-78 ENGINE  
TF-30 ENGINE  
TF-34 ENGINE  
TF-41 ENGINE  
VARIABLE CYCLE ENGINES

**AIRCRAFT ENGINES-(CONT.)**

RT . VARIABLE STREAM CONTROL ENGINES  
 ACEE PROGRAM  
 AIR START  
 ∞ AIRCRAFT  
 ENGINE AIRFRAME INTEGRATION  
 GAS TURBINE ENGINES  
 HYDROGEN ENGINES  
 INFRARED SUPPRESSION  
 INTERNAL COMBUSTION ENGINES  
 JET ENGINES  
 JET PROPULSION  
 LASER PROPULSION  
 NUCLEAR PROPULSION  
 PISTON ENGINES  
 ∞ POWER SUPPLIES  
 QUIET ENGINE PROGRAM  
 ROCKET ENGINES  
 ROTARY ENGINES  
 T-58 ENGINE  
 T-58-GE-8B ENGINE  
 TOPPING CYCLE ENGINES  
 TURBINE ENGINES  
 WANKEL ENGINES

**AIRCRAFT EQUIPMENT**

GS ONBOARD EQUIPMENT  
 . AIRCRAFT EQUIPMENT  
 . . BOMBING EQUIPMENT  
 . . EJECTION SEATS  
 . . . FLYING EJECTION SEATS  
 . . . TERCOM  
 RT AIRBORNE EQUIPMENT  
 ∞ AIRCRAFT  
 AIRCRAFT HYDRAULIC SYSTEMS  
 AIRCRAFT LIGHTS  
 AIRCRAFT POWER SUPPLIES  
 AIRCRAFT TIRES  
 AUTOMATIC LANDING CONTROL  
 AUTOMATIC PILOTS  
 AVIONICS  
 COMMONALITY  
 DISPLAY DEVICES  
 ∞ EQUIPMENT  
 FLIGHT INSTRUMENTS  
 LANDING AIDS  
 LANDING INSTRUMENTS  
 LIGHT AIRBORNE MULTIPURPOSE  
 SYSTEM  
 NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 RADIO DIRECTION FINDERS

**AIRCRAFT FUEL SYSTEMS**

GS FUEL SYSTEMS  
 . AIRCRAFT FUEL SYSTEMS  
 RT ∞ AIRCRAFT  
 FUEL PUMPS  
 FUEL TANK PRESSURIZATION  
 FUEL TANKS  
 FUEL VALVES  
 ∞ SYSTEMS

**AIRCRAFT FUELS**

GS FUELS  
 . CHEMICAL FUELS  
 . . LIQUID FUELS  
 . . . AIRCRAFT FUELS  
 RT ∞ AIRCRAFT  
 ANTIMISTING FUELS  
 AUTOMOBILE FUELS  
 HYDROCARBON FUELS  
 JET ENGINE FUELS  
 LIQUID ROCKET PROPELLANTS  
 MONOPROPELLANTS  
 SLURRY PROPELLANTS  
 SOLID PROPELLANTS  
 TANKER AIRCRAFT

**AIRCRAFT GUIDANCE**

GS GUIDANCE (MOTION)  
 . AIRCRAFT GUIDANCE  
 RT AIR TRAFFIC CONTROL  
 ∞ AIRCRAFT  
 APPROACH CONTROL  
 AUTOMATED EN ROUTE ATC  
 COLLISION AVOIDANCE  
 ∞ INDICATORS  
 INSTRUMENT LANDING SYSTEMS  
 RADAR APPROACH CONTROL  
 RADAR NAVIGATION  
 RADARSCOPES  
 RADIO NAVIGATION

**AIRCRAFT HANGARS**

USE HANGARS

**AIRCRAFT HAZARDS**

GS HAZARDS  
 . AIRCRAFT HAZARDS  
 RT AIR TRAFFIC  
 ∞ AIRCRAFT  
 AVIATION METEOROLOGY  
 BIRD-AIRCRAFT COLLISIONS  
 BIRDS  
 COLLISIONS  
 CRASH LANDING  
 CRASHES  
 FLIGHT HAZARDS  
 FLIGHT SAFETY  
 FOREIGN BODIES  
 HUMAN FACTORS ENGINEERING  
 MALFUNCTIONS  
 MIDAIR COLLISIONS  
 NOISE (SOUND)  
 OPERATIONAL HAZARDS  
 REFUELING  
 THREAT EVALUATION  
 TOXIC HAZARDS  
 WEATHER

**AIRCRAFT HYDRAULIC SYSTEMS**

GS HYDRAULIC EQUIPMENT  
 . AIRCRAFT HYDRAULIC SYSTEMS  
 RT ACTUATORS  
 ∞ AIRCRAFT  
 AIRCRAFT EQUIPMENT  
 SERVOCONTROL  
 SERVOMECHANISMS  
 ∞ SYSTEMS

**AIRCRAFT INDUSTRY**

GS INDUSTRIES  
 . AEROSPACE INDUSTRY  
 . . AIRCRAFT INDUSTRY  
 RT AERONAUTICAL ENGINEERING  
 ∞ AIRCRAFT  
 AIRCRAFT PRODUCTION COSTS

**AIRCRAFT INSTRUMENTS**

GS AIRCRAFT INSTRUMENTS  
 . APPROACH INDICATORS  
 . AUTOMATIC PILOTS  
 . FLIGHT RECORDERS  
 . RATE OF CLIMB INDICATORS  
 RT AIRBORNE SURVEILLANCE RADAR  
 ALTIMETERS  
 ANEMOMETERS  
 ATTITUDE INDICATORS  
 AUTOMATIC FLIGHT CONTROL  
 AVIONICS  
 COMPASSES  
 DISPLAY DEVICES  
 FLIGHT CONTROL  
 FLIGHT INSTRUMENTS  
 FLIGHT PATHS  
 FLIGHT TEST INSTRUMENTS  
 INDICATING INSTRUMENTS  
 INSTRUMENT APPROACH  
 INSTRUMENT LANDING SYSTEMS  
 ∞ INSTRUMENTS  
 I2S CAMERAS  
 LANDING AIDS  
 LANDING INSTRUMENTS  
 LASER ALTIMETERS  
 LIGHT EMITTING DIODES  
 ∞ MEASUREMENT  
 MEASURING INSTRUMENTS  
 MONITORS  
 NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 POSITION INDICATORS  
 RADAR  
 RADIO ALTIMETERS  
 RECORDING INSTRUMENTS  
 SPEED INDICATORS  
 TACHOMETERS

**AIRCRAFT INTERIORS**

USE AIRCRAFT COMPARTMENTS

**AIRCRAFT LANDING**

GS LANDING  
 . AIRCRAFT LANDING  
 . . CRASH LANDING  
 . . . DITCHING (LANDING)  
 . . SKID LANDINGS  
 RT AIR CUSHION LANDING SYSTEMS  
 ∞ AIRCRAFT

**AIRCRAFT LANDING-(CONT.)**

ALL-WEATHER LANDING SYSTEMS  
 BLIND LANDING  
 CEILINGS (METEOROLOGY)  
 CONTROLLABILITY  
 CRASHWORTHINESS  
 GLIDE LANDINGS  
 HARD LANDING  
 INSTRUMENT LANDING SYSTEMS  
 LANDING AIDS  
 LANDING MATS  
 LANDING RADAR  
 LOW VISIBILITY  
 MICROWAVE LANDING SYSTEMS  
 RUNWAY ALIGNMENT  
 SOFT LANDING  
 SPACECRAFT LANDING  
 TAKEOFF  
 TOUCHDOWN  
 VERTICAL LANDING  
 VORTEX AVOIDANCE  
 WATER LANDING

**AIRCRAFT LAUNCHING DEVICES**

UF TAKEOFF SYSTEMS  
 GS LAUNCHERS  
 . AIRCRAFT LAUNCHING DEVICES  
 . . JATO ENGINES  
 RT CATAPULTS

**AIRCRAFT LIGHTS**

GS LIGHTING EQUIPMENT  
 . LUMINAIRES  
 . . AIRCRAFT LIGHTS  
 RT ∞ AIRCRAFT  
 AIRCRAFT EQUIPMENT  
 BEACONS

**AIRCRAFT MAINTENANCE**

GS MAINTENANCE  
 . AIRCRAFT MAINTENANCE  
 RT ∞ AIRCRAFT  
 CHECKOUT  
 FLIGHT OPERATIONS  
 GROUND SUPPORT EQUIPMENT  
 LOGISTICS

**AIRCRAFT MANEUVERS**

GS MANEUVERS  
 . AIRCRAFT MANEUVERS  
 RT ∞ AIRCRAFT  
 APPROACH CONTROL  
 FLIGHT CHARACTERISTICS  
 FLIGHT ENVELOPES  
 FLIGHT PATHS  
 HIGHLY MANEUVERABLE AIRCRAFT  
 MANEUVERABILITY  
 OBSTACLE AVOIDANCE  
 TRAJECTORY OPTIMIZATION  
 TRANSITION FLIGHT  
 TURNING FLIGHT

**AIRCRAFT MODELS**

GS MODELS  
 . AIRCRAFT MODELS  
 RT DYNAMIC MODELS  
 MATHEMATICAL MODELS  
 POWERED MODELS  
 SCALE MODELS  
 SEMISPAN MODELS  
 SPACECRAFT MODELS  
 WIND TUNNEL MODELS

**AIRCRAFT NOISE**

GS ELASTIC WAVES  
 . SOUND WAVES  
 . . NOISE (SOUND)  
 . . . AIRCRAFT NOISE  
 . . . . BLADE SLAP NOISE  
 . . . . JET AIRCRAFT NOISE  
 . . . . PROPELLER NOISE  
 . . . . SONIC BOOMS  
 RT ACOUSTIC RETROFITTING  
 AEROACOUSTICS  
 AERODYNAMIC NOISE  
 ∞ AIRCRAFT  
 COAXIAL NOZZLES  
 ENGINE NOISE  
 FOOTPRINTS  
 JET AIRCRAFT  
 MUFFLERS  
 NOISE INTENSITY  
 NOISE MEASUREMENT  
 NOISE PREDICTION (AIRCRAFT)  
 NOISE REDUCTION

## AIRCRAFT NOISE PREDICTION

### AIRCRAFT NOISE-(CONT.) SYNCHROPHASING

### AIRCRAFT NOISE PREDICTION USE NOISE PREDICTION (AIRCRAFT)

#### AIRCRAFT PARTS

RT ∞ AIRCRAFT  
AIRFOILS  
AIRFRAMES  
CHANNEL WINGS  
CONTROL SURFACES  
FUSELAGES  
LANDING GEAR  
OBLIQUE WINGS  
PROTUBERANCES  
SWING TAIL ASSEMBLIES  
SWING WINGS  
TAIL ASSEMBLIES  
WINGS

#### AIRCRAFT PERFORMANCE

GS AIRCRAFT PERFORMANCE  
HELICOPTER PERFORMANCE  
RT AERODYNAMIC STALLING  
∞ AIRCRAFT  
AIRCRAFT SPIN  
AIRSPEED  
CONTROLLABILITY  
DISTANCE  
FLIGHT CHARACTERISTICS  
FLIGHT ENVELOPES  
MANEUVERABILITY  
MINIMUM DRAG  
PAYLOADS  
∞ PERFORMANCE  
PILOT PERFORMANCE  
SPECIFICATIONS  
TAKEOFF RUNS

#### AIRCRAFT PILOTS

UF AVIATORS  
COPILOTS  
JET PILOTS  
GS PERSONNEL  
FLYING PERSONNEL  
PILOTS (PERSONNEL)  
AIRCRAFT PILOTS  
TEST PILOTS  
OPERATORS (PERSONNEL)  
PILOTS (PERSONNEL)  
AIRCRAFT PILOTS  
TEST PILOTS  
RT ∞ AIRCRAFT  
AVIATION PSYCHOLOGY  
FLIGHT CREWS  
∞ PILOTS

#### AIRCRAFT POWER SOURCES USE AIRCRAFT ENGINES

#### AIRCRAFT PRODUCTION

UF FUSELAGE MOUNTING  
RT ∞ AIRCRAFT  
COSTS  
EQUIPMENT SPECIFICATIONS  
PRODUCT DEVELOPMENT  
∞ PRODUCTION  
PRODUCTION ENGINEERING

#### AIRCRAFT PRODUCTION COSTS

GS COSTS  
AIRCRAFT PRODUCTION COSTS  
PRODUCTION COSTS  
AIRCRAFT PRODUCTION COSTS  
RT ∞ AIRCRAFT  
AIRCRAFT INDUSTRY  
COST ESTIMATES  
EFFICIENCY  
∞ ENGINEERING  
FINANCIAL MANAGEMENT  
INDUSTRIES  
MANUFACTURING  
PRODUCTION ENGINEERING  
PRODUCTION MANAGEMENT  
PRODUCTIVITY

#### AIRCRAFT RELIABILITY

UF AIRWORTHINESS  
AIRWORTHINESS REQUIREMENTS  
GS RELIABILITY  
AIRCRAFT RELIABILITY  
RT ∞ AIRCRAFT  
CERTIFICATION  
CIRCUIT RELIABILITY

### AIRCRAFT RELIABILITY-(CONT.) COMPONENT RELIABILITY HELICOPTER PERFORMANCE QUALITY CONTROL STRUCTURAL RELIABILITY VULNERABILITY

#### AIRCRAFT RUNUP

GS PREFLIGHT OPERATIONS  
AIRCRAFT RUNUP  
RT ∞ AIRCRAFT  
ENGINE NOISE  
ENGINE TESTS  
GROUND TESTS  
JET AIRCRAFT NOISE

#### AIRCRAFT SAFETY

GS SAFETY  
AIRCRAFT SAFETY  
RT ABORT APPARATUS  
AEROSPACE SAFETY  
AIR PIRACY  
AIR TRAFFIC CONTROL  
∞ AIRCRAFT  
AIRCRAFT ACCIDENTS  
AIRCRAFT APPROACH SPACING  
AIRCRAFT SPIN  
ALL-WEATHER LANDING SYSTEMS  
ARRESTING GEAR  
BEACON COLLISION AVOIDANCE  
SYSTEM  
COLLISION AVOIDANCE  
COLLISIONS  
CRASH LANDING  
CRASHES  
CRASHWORTHINESS  
EJECTION SEATS  
FLIGHT HAZARDS  
FLIGHT SAFETY  
FLYING EJECTION SEATS  
LANDING AIDS  
LANDING RADAR  
MICROWAVE LANDING SYSTEMS  
MIDAIR COLLISIONS  
NATIONAL AIRSPACE SYSTEM  
NAVIGATION AIDS  
SAFETY DEVICES  
SOLAR COMPASSES  
THREAT EVALUATION  
WEATHER  
WHEEL BRAKES

#### AIRCRAFT SPECIFICATIONS

GS SPECIFICATIONS  
AIRCRAFT SPECIFICATIONS  
RT ∞ AIRCRAFT  
AIRSPEED  
CEILING (AIRCRAFT CAPABILITY)  
CONTROLLABILITY  
DISTANCE  
FLIGHT CHARACTERISTICS  
PAYLOADS

#### AIRCRAFT SPIN

RT AERODYNAMIC STALLING  
∞ AIRCRAFT  
AIRCRAFT PERFORMANCE  
AIRCRAFT SAFETY  
CONTROL STABILITY  
CONTROLLABILITY  
CRASH LANDING  
FLIGHT HAZARDS  
FLIGHT SAFETY  
HAZARDS  
MANEUVERS  
SPIN DYNAMICS

#### AIRCRAFT STABILITY

GS DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
AIRCRAFT STABILITY  
HOVERING STABILITY  
STABILITY  
DYNAMIC STABILITY  
MOTION STABILITY  
AIRCRAFT STABILITY  
HOVERING STABILITY  
RT AERODYNAMIC BALANCE  
AERODYNAMIC STABILITY  
∞ AIRCRAFT  
ATTITUDE STABILITY  
BUFFETING  
CONTROL STABILITY  
CONTROLLABILITY

### AIRCRAFT STABILITY-(CONT.)

COUNTERBALANCES  
DIRECTIONAL STABILITY  
FLIGHT ENVELOPES  
HORIZONTAL FLIGHT  
LATERAL STABILITY  
LIQUID SLOSHING  
LONGITUDINAL STABILITY  
LOW SPEED STABILITY  
PILOT INDUCED OSCILLATION  
STATIC STABILITY  
STRUCTURAL STABILITY  
TURNING FLIGHT  
UPPER SURFACE BLOWN FLAPS  
WIND TUNNEL STABILITY TESTS

#### AIRCRAFT STRUCTURES

UF AIRCRAFT CONSTRUCTION  
GS AIRCRAFT STRUCTURES  
AIRFRAMES  
FUSELAGES  
PLASTIC AIRCRAFT STRUCTURES  
RT AERODYNAMIC INTERFERENCE  
AEROELASTICITY  
AFTERBODIES  
∞ AIRCRAFT  
AIRFOILS  
BORON-EPOXY COMPOSITES  
CANARD CONFIGURATIONS  
CANOPIES  
CENTERBODIES  
CHANNEL WINGS  
CONTROL SURFACES  
FAIRINGS  
FOREBODIES  
HULLS (STRUCTURES)  
INTERFERENCE FIT  
LEADING EDGE FLAPS  
NOSES (FOREBODIES)  
OBLIQUE WINGS  
PYLON MOUNTING  
SHELLS (STRUCTURAL FORMS)  
SPACECRAFT STRUCTURES  
STREAMLINING  
∞ STRUCTURES  
SWING TAIL ASSEMBLIES  
SWING WINGS  
TAIL ASSEMBLIES  
WINGS

#### AIRCRAFT SURVIVABILITY

RT ∞ AIRCRAFT  
COMBAT  
CONSTRUCTION MATERIALS  
DURABILITY  
FLIGHT CONTROL  
HELICOPTERS  
LIFE (DURABILITY)  
∞ MILITARY AIRCRAFT  
PLASTIC AIRCRAFT STRUCTURES  
REINFORCED PLASTICS  
RELIABILITY  
SPACECRAFT SURVIVABILITY  
SURVIVAL  
SURVIVAL EQUIPMENT  
VULNERABILITY

#### AIRCRAFT TIRES

GS TIRES  
AIRCRAFT TIRES  
RT ∞ AIRCRAFT  
AIRCRAFT EQUIPMENT  
LANDING GEAR  
VEHICLE WHEELS

#### AIRCRAFT WAKES

GS WAKES  
AIRCRAFT WAKES  
HELICOPTER WAKES  
SLIPSTREAMS  
PROPELLER SLIPSTREAMS  
RT ∞ AIRCRAFT  
HYPERSONIC WAKES  
LAMINAR WAKES  
SUPERSONIC WAKES  
TURBULENT WAKES  
VORTEX ADVISORY SYSTEM  
VORTEX ALLEVIATION

#### AIRFIELD SURFACE MOVEMENTS

RT AIR CARGO  
AIRPORTS  
HANGARS  
MATERIALS HANDLING  
MOBILE LOUNGES

**AIRFIELD SURFACE MOVEMENTS-(CONT.)**

RUNWAYS  
∞ SURFACES  
TAXIING

**AIRFIELDS**

USE AIRPORTS

**AIRFOIL CHARACTERISTICS**

USE AIRFOILS

**AIRFOIL FENCES**

GS AIRFOILS  
AIRFOIL FENCES  
RT BOUNDARY LAYER CONTROL  
∞ FENCES  
VORTEX GENERATORS  
WINGS

**AIRFOIL OSCILLATIONS**

GS OSCILLATIONS  
AIRFOIL OSCILLATIONS  
WING OSCILLATIONS  
RT AERODYNAMIC STABILITY  
AEROELASTICITY  
FLAPPING  
FLUTTER  
FLUTTER ANALYSIS  
ROTARY STABILITY  
STRUCTURAL VIBRATION  
UNDAMPED OSCILLATIONS  
VIBRATION  
VIBRATION MODE

**AIRFOIL PROFILES**

UF AERODYNAMIC CHORDS  
AIRFOIL SECTIONS  
AIRFOIL THICKNESS  
CLARK Y AIRFOIL  
GS AIRFOIL PROFILES  
WING PROFILES  
WING SPAN  
RT AERODYNAMIC INTERFERENCE  
AIRFOILS  
BLADE TIPS  
∞ CROSS SECTIONS  
JOUKOWSKI TRANSFORMATION  
KUTTA-JOUKOWSKI CONDITION  
LIGHTHILL METHOD  
NOSE TIPS  
∞ PROFILES  
STREAMLINING  
SUPERCritical AIRFOILS  
THEODORSEN TRANSFORMATION  
THICKNESS  
THICKNESS RATIO  
THIN AIRFOILS  
THIN WINGS  
TIPS  
WEDGES  
WING TIPS

**AIRFOIL SECTIONS**

USE AIRFOIL PROFILES

**AIRFOIL THICKNESS**

USE AIRFOIL PROFILES

**AIRFOILS**

UF AIRFOIL CHARACTERISTICS  
GS AIRFOILS  
AERIAL RUDDERS  
AILERONS  
FLAPERONS  
SPOILER SLOT AILERONS  
AIRFOIL FENCES  
CIRCULATION CONTROL AIRFOILS  
CIRCULATION CONTROL ROTORS  
DROOPED AIRFOILS  
ELEVATORS (CONTROL SURFACES)  
ELEVONS  
FLAPS (CONTROL SURFACES)  
EXTERNALLY BLOWN FLAPS  
UPPER SURFACE BLOWN FLAPS  
FLAPERONS  
JET FLAPS  
SPLIT FLAPS  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
HORIZONTAL TAIL SURFACES  
LAMINAR FLOW AIRFOILS  
PROPELLER BLADES

**AIRFOILS-(CONT.)**

SPOILERS  
SUPERCRITICAL AIRFOILS  
SUPERCRITICAL WINGS  
SUPERSONIC AIRFOILS  
TABS (CONTROL SURFACES)  
THIN AIRFOILS  
THIN WINGS  
INFINITE SPAN WINGS  
WINGS  
AEROELASTIC RESEARCH WINGS  
CAMBERED WINGS  
CARET WINGS  
CHANNEL WINGS  
CRUCIFORM WINGS  
FIXED WINGS  
FLEXIBLE WINGS  
PARAWINGS  
GAW-1 AIRFOIL  
GAW-2 AIRFOIL  
JOINED WINGS  
LOW ASPECT RATIO WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
MISSION ADAPTIVE WINGS  
OBLIQUE WINGS  
RIGID WINGS  
ROTARY WINGS  
CIRCULATION CONTROL ROTORS  
LIFTING ROTORS  
BEARINGLESS ROTORS  
RIGID ROTORS  
TILTING ROTORS  
TIP DRIVEN ROTORS  
X WING ROTORS  
SLENDER WINGS  
INFINITE SPAN WINGS  
SUPERCritical WINGS  
SWEEP WINGS  
SWEEP FORWARD WINGS  
TRAPEZOIDAL WINGS  
SWEEPBACK WINGS  
ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
SWING WINGS  
THIN WINGS  
INFINITE SPAN WINGS  
TWISTED WINGS  
UNCAMBERED WINGS  
RING WINGS  
UNSWEPT WINGS  
INFINITE SPAN WINGS  
RECTANGULAR WINGS  
RING WINGS  
VARIABLE SWEEP WINGS  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
AIRCRAFT DESIGN  
AIRCRAFT PARTS  
AIRCRAFT STRUCTURES  
AIRFOIL PROFILES  
ASPECT RATIO  
BLADE-VORTEX INTERACTION  
∞ BLADES  
BLUNT LEADING EDGES  
BLUNT TRAILING EDGES  
BODY-WING CONFIGURATIONS  
CAMBER  
CONTROL SURFACES  
DEICERS  
DEICING  
FINS  
∞ FOILS  
FOILS (MATERIALS)  
GUIDE VANES  
HYDROFOILS  
INTERACTIONAL AERODYNAMICS  
JET VANES  
LEADING EDGE THRUST  
LEADING EDGES  
LIFT  
LIFTING BODIES  
LIGHTHILL METHOD  
MONOPLANES  
ROTOR BLADES (TURBOMACHINERY)  
ROTORS  
RUDDERS  
SHARP LEADING EDGES  
STABILIZERS (FLUID DYNAMICS)  
STREAMLINED BODIES  
STREAMLINING  
TAIL ASSEMBLIES  
THICKNESS RATIO  
TRAILING EDGES  
TURBOMACHINE BLADES

**AIRFOILS-(CONT.)**

VANES  
WAVRIDERS  
WEDGES

**AIRFRAMES**

GS AIRCRAFT STRUCTURES  
AIRFRAMES  
FRAMES  
AIRFRAMES  
RT AIRCRAFT CONSTRUCTION MATERIALS  
AIRCRAFT PARTS  
AIRFRAME MATERIALS  
BAYS (STRUCTURAL UNITS)  
CANOPIES  
CONTROL SURFACES  
ENGINE AIRFRAME INTEGRATION  
FINS  
FUSELAGES  
LANDING GEAR  
MISSILE BODIES  
MISSILE STRUCTURES  
NACELLES  
PROTUBERANCES  
TAIL ASSEMBLIES  
WING NACELLE CONFIGURATIONS  
WINGS

**AIRGEEP AIRCRAFT**

USE VZ-8 AIRCRAFT

**AIRLINE OPERATIONS**

RT AIR CARGO  
AIR TRAFFIC  
AIR TRANSPORTATION  
CIVIL AVIATION  
COMMERCIAL AIRCRAFT  
OPERATING COSTS  
OPERATIONAL PROBLEMS  
∞ OPERATIONS  
PASSENGERS  
SHORT HAUL AIRCRAFT

**AIRLOCK MODULES**

GS MODULES  
AIRLOCK MODULES  
RT AIR LOCKS  
APOLLO APPLICATIONS PROGRAM  
MULTIPLE DOCKING ADAPTERS  
SATURN WORKSHOPS  
SATURN 1 WORKSHOP  
SATURN 5 WORKSHOP  
SKYLAB PROGRAM  
SKYLAB 1  
SKYLAB 2  
SKYLAB 3  
SKYLAB 4  
SPACECRAFT DOCKING MODULES

**AIRPORT BEACONS**

GS LANDING AIDS  
AIRPORT BEACONS  
DISCRETE ADDRESS BEACON  
SYSTEM  
NAVIGATION AIDS  
BEACONS  
AIRPORT BEACONS  
DISCRETE ADDRESS BEACON  
SYSTEM  
RT RADIO BEACONS  
SOLAR COMPASSES

**AIRPORT LIGHTS**

GS LANDING AIDS  
AIRPORT LIGHTS  
RUNWAY LIGHTS  
LIGHTING EQUIPMENT  
LUMINAIRES  
AIRPORT LIGHTS  
RUNWAY LIGHTS  
RT SEARCHLIGHTS

**AIRPORT PLANNING**

GS PLANNING  
AIRPORT PLANNING  
RT GROUND SUPPORT EQUIPMENT  
HELIPORTS  
LAND USE  
SITES

**AIRPORT SECURITY**

GS SECURITY  
AIRPORT SECURITY  
RT AIR PIRACY  
AIRPORTS

## AIRPORT SURFACE DETECTION EQUIPMENT

### AIRPORT SECURITY-(CONT.)

PROTECTION  
VULNERABILITY

### AIRPORT SURFACE DETECTION EQUIPMENT

UF ASDE  
RT AIR TRAFFIC CONTROL  
∞ EQUIPMENT  
GROUND BASED CONTROL  
RADAR EQUIPMENT  
SEARCH RADAR  
∞ SURFACES  
SURVEILLANCE RADAR

### AIRPORT TOWERS

GS TOWERS  
∞ AIRPORT TOWERS  
RT AIR TRAFFIC CONTROL  
AIR TRAFFIC CONTROLLERS  
(PERSONNEL)  
AIRPORTS  
GROUND BASED CONTROL  
HELIPORTS  
LANDING AIDS  
TRAFFIC CONTROL

### AIRPORTS

UF AIRFIELDS  
GS AIRPORTS  
∞ HELIPORTS  
RT ∞ AERONAUTICS  
AIR TRAFFIC CONTROL  
AIRFIELD SURFACE MOVEMENTS  
AIRPORT SECURITY  
AIRPORT TOWERS  
∞ FACILITIES  
HANGARS  
INSTRUMENT LANDING SYSTEMS  
LANDING AIDS  
LANDING MATS  
MILITARY AIR FACILITIES  
MOBILE LOUNGES  
MOORING  
NATIONAL AIRSPACE SYSTEM  
NAVIGATION AIDS  
∞ PORTS  
RUNWAYS  
SITE SELECTION  
∞ STRIP

### AIRS (RECONNAISSANCE SYS)

USE AIRBORNE INTEGRATED  
RECONNAISSANCE SYSTEM

### AIRSHIPS

UF AEROSTATS  
DIRIGIBLES  
GS AIRSHIPS  
∞ HEAVY LIFT AIRSHIPS  
RT ∞ AIRCRAFT  
BALLOONS  
GONDOLAS  
INFLATABLE STRUCTURES  
∞ MILITARY AIRCRAFT

### AIRSPEED

GS RATES (PER TIME)  
∞ AIRSPEED  
VELOCITY  
∞ AIRSPEED  
RT AERODYNAMIC STALLING  
AIRCRAFT PERFORMANCE  
AIRCRAFT SPECIFICATIONS  
BOUNDARY LAYER SEPARATION  
FLIGHT CHARACTERISTICS  
GROUND SPEED  
HIGH SPEED  
LOW SPEED  
MACH NUMBER  
WIND VELOCITY

### AIRWORTHINESS

USE AIRCRAFT RELIABILITY

### AIRWORTHINESS REQUIREMENTS

USE AIRCRAFT RELIABILITY

### ALADIN 2 AIRCRAFT

GS TRANSPORT AIRCRAFT  
∞ ALADIN 2 AIRCRAFT  
V/STOL AIRCRAFT  
∞ SHORT TAKEOFF AIRCRAFT  
∞ ALADIN 2 AIRCRAFT  
RT ∞ AIRCRAFT

### ALARM PROJECT

UF AUTOMATIC LIGHT AIRCRAFT  
READINESS MONITOR  
GS PROGRAMS  
∞ PROJECTS  
RT ∞ ALARM PROJECT  
MONITORS

### ALFVEN WAVES

USE MAGNETOHYDRODYNAMIC WAVES

### ALKYLATES

GS ESTERS  
∞ ALKYLATES  
RT ALKYLATION

### ALL-WEATHER AIR NAVIGATION

GS NAVIGATION  
∞ AIR NAVIGATION  
∞ ALL-WEATHER AIR NAVIGATION  
RT DOPPLER NAVIGATION  
INERTIAL NAVIGATION  
NAVIGATION AIDS  
RADAR NAVIGATION  
RADIO NAVIGATION  
SOLAR COMPASSES  
TACAN

### ALL-WEATHER LANDING SYSTEMS

GS LANDING AIDS  
∞ INSTRUMENT LANDING SYSTEMS  
∞ ALL-WEATHER LANDING SYSTEMS  
RT AIRCRAFT LANDING  
AIRCRAFT SAFETY  
FLIGHT SAFETY  
LOW VISIBILITY  
∞ SYSTEMS

### ALMUCANTAR

USE ELEVATION ANGLE

### ALOUPETTE HELICOPTERS

GS SUD AVIATION AIRCRAFT  
∞ ALOUPETTE HELICOPTERS  
∞ SA-330 HELICOPTER  
∞ SE-3160 HELICOPTER  
V/STOL AIRCRAFT  
∞ ROTARY WING AIRCRAFT  
∞ HELICOPTERS  
∞ ALOUPETTE HELICOPTERS  
∞ SA-330 HELICOPTER  
∞ SE-3180 HELICOPTER  
RT ∞ AIRCRAFT

### ALOUPETTE 3 HELICOPTER

USE SE-3160 HELICOPTER

### ALPHA JET AIRCRAFT

GS ATTACK AIRCRAFT  
∞ FIGHTER AIRCRAFT  
∞ ALPHA JET AIRCRAFT  
JET AIRCRAFT  
∞ ALPHA JET AIRCRAFT  
TRAINING AIRCRAFT  
∞ ALPHA JET AIRCRAFT  
RT ∞ AIRCRAFT  
∞ MILITARY AIRCRAFT

### ALS (LAUNCH SYSTEM)

USE ADVANCED LAUNCH SYSTEM (STS)

### ALTERNATING DIRECTION IMPLICIT METHODS

UF ADI METHODS  
GS PROBLEM SOLVING  
∞ ALTERNATING DIRECTION IMPLICIT  
METHODS  
RT DIFFERENTIAL EQUATIONS  
NUMERICAL ANALYSIS  
PARTIAL DIFFERENTIAL EQUATIONS

### ALTIMETERS

GS MEASURING INSTRUMENTS  
∞ DISTANCE MEASURING EQUIPMENT  
∞ ALTIMETERS  
∞ LASER ALTIMETERS  
∞ RADIO ALTIMETERS  
RT AIRCRAFT INSTRUMENTS  
ALTIMETRY  
ALTITUDE  
APPROACH INDICATORS  
ASTROLABES  
BAROMETERS  
FLIGHT INSTRUMENTS  
HYPSOMETERS

### ALTIMETERS-(CONT.)

LANDING INSTRUMENTS  
NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
POSITION INDICATORS  
RANGE FINDERS  
RATE OF CLIMB INDICATORS  
SATELLITE ALTIMETRY

### ALTIMETRY

GS ALTIMETRY  
∞ SATELLITE ALTIMETRY  
RT ALTIMETERS  
ALTITUDE  
ELEVATION  
GEODESY  
GEODES  
RADAR MEASUREMENT  
TOPOGRAPHY

### ALTITUDE

GS ALTITUDE  
∞ FLIGHT ALTITUDE  
∞ HIGH ALTITUDE  
∞ LOW ALTITUDE  
∞ MIDALTITUDE  
∞ SEA LEVEL  
RT ALTIMETERS  
ALTIMETRY  
APEXES  
AZIMUTH  
DISTANCE  
ELEVATION  
ELEVATION ANGLE  
HEIGHT  
POSITION (LOCATION)

### ALTITUDE CONTROL

RT ∞ CONTROL  
LASER ALTIMETERS  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
SPACING

### ALTITUDE SIMULATION

UF SIMULATED ALTITUDE  
GS SIMULATION  
∞ ENVIRONMENT SIMULATION  
∞ ALTITUDE SIMULATION  
RT COMPUTERIZED SIMULATION  
FLIGHT SIMULATION  
HIGH ALTITUDE ENVIRONMENTS  
HYPOBARIC ATMOSPHERES  
LANDING SIMULATION  
SPACE ENVIRONMENT SIMULATION  
THERMAL SIMULATION  
TRAINING DEVICES  
VACUUM CHAMBERS

### ALTITUDE TESTS

GS ALTITUDE TESTS  
∞ HIGH ALTITUDE TESTS  
RT ENGINE TESTS  
FLIGHT TESTS  
FULL SCALE TESTS  
HIGH ALTITUDE ENVIRONMENTS  
TEST VEHICLES  
∞ TESTS

### AMBIGUITY

RT INTELLIGIBILITY  
POSITIONING

### AMBULANCES

RT MEDICAL SERVICES  
∞ MILITARY VEHICLES  
SAFETY DEVICES

### AMPHIBIOUS AIRCRAFT

GS AMPHIBIOUS VEHICLES  
∞ AMPHIBIOUS AIRCRAFT  
RT ∞ AIRCRAFT  
SEAPLANES  
WATER TAKEOFF AND LANDING  
AIRCRAFT

### AMPHIBIOUS VEHICLES

GS AMPHIBIOUS VEHICLES  
∞ AMPHIBIOUS AIRCRAFT  
RT BOATS  
∞ MILITARY VEHICLES  
SEAPLANES  
SHIPS  
SURFACE VEHICLES

**AMPHIBIOUS VEHICLES-(CONT.)**

∞ VEHICLES  
WATER VEHICLES

**AMPLIFIER DESIGN**

RT AMPLIFIERS  
COMPUTER AIDED DESIGN  
∞ DESIGN  
LOGIC DESIGN  
OPERATIONAL AMPLIFIERS  
PRODUCT DEVELOPMENT  
TRAVELING WAVE AMPLIFIERS

**AMPLIFIERS**

UF ELECTRONIC AMPLIFIERS  
GS **AMPLIFIERS**  
BEAM PLASMA AMPLIFIERS  
BROADBAND AMPLIFIERS  
CARCINOTRONS  
CURRENT AMPLIFIERS  
PHOTOMULTIPLIER TUBES  
FREQUENCY MODULATION  
PHOTOMULTIPLIERS  
DIFFERENTIAL AMPLIFIERS  
DISTRIBUTED AMPLIFIERS  
FEEDBACK AMPLIFIERS  
FLUID AMPLIFIERS  
JET AMPLIFIERS  
INTERMEDIATE FREQUENCY  
AMPLIFIERS  
LIGHT AMPLIFIERS  
LIMITER AMPLIFIERS  
LINEAR AMPLIFIERS  
MAGNETIC AMPLIFIERS  
MAGNETOSTATIC AMPLIFIERS  
MICROWAVE AMPLIFIERS  
CROSSED FIELD AMPLIFIERS  
CYCLOTRON RESONANCE DEVICES  
PLANOTRONS  
OPERATIONAL AMPLIFIERS  
PARAMETRIC AMPLIFIERS  
POSTAMPLIFIERS  
POWER AMPLIFIERS  
PREAMPLIFIERS  
PUSH-PULL AMPLIFIERS  
SERVOAMPLIFIERS  
TRANSISTOR AMPLIFIERS  
TRAVELING WAVE AMPLIFIERS  
VOLTAGE AMPLIFIERS

RT **AMPLIDYNES**  
AMPLIFICATION  
AMPLIFIER DESIGN  
∞ BOOSTERS  
CAPACITORS  
CIRCUITS  
∞ ELECTRIC CELLS  
ELECTRIC CHOPPERS  
IMAGE INTENSIFIERS  
INTENSIFIERS  
KLYSTRONS  
LASER CAVITIES  
LASERS  
LINEAR CIRCUITS  
MASERS  
MODULATORS  
MULTIVIBRATORS  
OSCILLATORS  
RECEIVERS  
REPEATERS  
SOLID STATE DEVICES  
STIMULATED EMISSION DEVICES  
TRANSFORMERS  
TRAVELING WAVE MASERS

**AN-2 AIRCRAFT**

GS ANTONOV AIRCRAFT  
AN-2 AIRCRAFT  
JET AIRCRAFT  
AN-2 AIRCRAFT  
MONOPLANES  
AN-2 AIRCRAFT  
TRANSPORT AIRCRAFT  
AN-2 AIRCRAFT  
RT ∞ AIRCRAFT

**AN-22 AIRCRAFT**

UF ANTHEUS AIRCRAFT  
ANTONOV AN-22 AIRCRAFT  
COCK AIRCRAFT  
GS ANTONOV AIRCRAFT  
AN-22 AIRCRAFT  
JET AIRCRAFT  
TURBOPROP AIRCRAFT  
AN-22 AIRCRAFT  
MONOPLANES

**AN-22 AIRCRAFT-(CONT.)**

AN-22 AIRCRAFT  
TRANSPORT AIRCRAFT  
AN-22 AIRCRAFT  
RT ∞ AIRCRAFT  
PASSENGER AIRCRAFT

**AN-24 AIRCRAFT**

UF ANTONOV AN-24 AIRCRAFT  
COKE AIRCRAFT  
GS ANTONOV AIRCRAFT  
AN-24 AIRCRAFT  
JET AIRCRAFT  
TURBOPROP AIRCRAFT  
AN-24 AIRCRAFT  
MONOPLANES  
AN-24 AIRCRAFT  
TRANSPORT AIRCRAFT  
AN-24 AIRCRAFT  
RT ∞ AIRCRAFT  
PASSENGER AIRCRAFT

**ANALYSIS (MATHEMATICS)**

GS **ANALYSIS (MATHEMATICS)**  
APERIODIC FUNCTIONS  
CALCULUS  
CONTINUITY (MATHEMATICS)  
DIFFERENTIAL CALCULUS  
FOURIER-BESSEL TRANSFORMATIONS  
GREGG CALCULUS  
INTEGRAL CALCULUS  
LIMITS (MATHEMATICS)  
SERIES (MATHEMATICS)  
ASYMPTOTIC SERIES  
CAMPBELL-HAUSDORFF SERIES  
COSINE SERIES  
FOURIER SERIES  
PADE APPROXIMATION  
POWER SERIES  
TAYLOR SERIES  
MACLAURIN SERIES  
PROGRESSIONS  
PRONY SERIES  
SINE SERIES  
VECTOR ANALYSIS  
COLLINEARITY  
COPLANARITY  
CURL (VECTORS)  
VORTICITY  
COMBINATORIAL ANALYSIS  
BINOMIAL COEFFICIENTS  
COMBINATIONS (MATHEMATICS)  
FACTORIALS  
PARTITIONS (MATHEMATICS)  
PERMUTATIONS  
COMPLEX VARIABLES  
AIRY FUNCTION  
ANALYTIC FUNCTIONS  
ENTIRE FUNCTIONS  
BESSEL FUNCTIONS  
HANKEL FUNCTIONS  
CAUCHY INTEGRAL FORMULA  
CONFORMAL MAPPING  
CONJUGATES  
CONJUGATE POINTS  
EXPONENTIAL FUNCTIONS  
LOGARITHMS  
GAMMA FUNCTION  
HARMONIC FUNCTIONS  
HYPERBOLIC FUNCTIONS  
HYPERGEOMETRIC FUNCTIONS  
LAGUERRE FUNCTIONS  
LEGENDRE FUNCTIONS  
LIOUVILLE THEOREM  
MATHIEU FUNCTION  
MEROMORPHIC FUNCTIONS  
ELLIPTIC FUNCTIONS  
RATIONAL FUNCTIONS  
NONHOLONOMIC EQUATIONS  
ORTHOGONAL FUNCTIONS  
SCHWARZ-CHRISTOFFEL  
TRANSFORMATION  
SINGULARITY (MATHEMATICS)  
NAKED SINGULARITIES  
SPHERICAL HARMONICS  
DEPENDENT VARIABLES  
FOURIER ANALYSIS  
FOURIER SERIES  
FUNCTION SPACE  
BANACH SPACE  
HILBERT SPACE  
SOBOLEV SPACE  
FUNCTIONAL ANALYSIS  
BANACH SPACE  
HILBERT SPACE

**ANALYSIS (MATHEMATICS)-(CONT.)**

SOBOLEV SPACE  
CONVOLUTION INTEGRALS  
HARMONIC ANALYSIS  
TESSERAL HARMONICS  
ZONAL HARMONICS  
INTEGRAL EQUATIONS  
FREDHOLM EQUATIONS  
J INTEGRAL  
SINGULAR INTEGRAL EQUATIONS  
VOLTERRA EQUATIONS  
WIENER HOPF EQUATIONS  
INTEGRAL TRANSFORMATIONS  
FOURIER TRANSFORMATION  
HILBERT TRANSFORMATION  
LAPLACE TRANSFORMATION  
HALF PLANES  
HALF SPACES  
HILL DETERMINANT  
NUMERICAL ANALYSIS  
APPROXIMATION  
BORN APPROXIMATION  
BORN-OPPENHEIMER  
APPROXIMATION  
CHEBYSHEV APPROXIMATION  
EDDINGTON APPROXIMATION  
ESSENTIALLY NON-OSCILLATORY  
SCHEMES  
FINITE DIFFERENCE THEORY  
FINITE ELEMENT METHOD  
HARTREE APPROXIMATION  
LEAST SQUARES METHOD  
MEAN SQUARE VALUES  
MILNE METHOD  
MULTIGRID METHODS  
NEWTON METHODS  
NEWTON-RAPHSON METHOD  
NUMERICAL DIFFERENTIATION  
OSEN APPROXIMATION  
PADE APPROXIMATION  
PARTICLE IN CELL TECHNIQUE  
POHLHAUSEN METHOD  
PREDICTOR-CORRECTOR METHODS  
RAYLEIGH-RITZ METHOD  
RELAXATION METHOD  
(MATHEMATICS)  
RITZ AVERAGING METHOD  
SCHWARTZ METHOD  
SOMMERFELD APPROXIMATION  
TVD SCHEMES  
BOUNDARY INTEGRAL METHOD  
COMPUTATIONAL CHEMISTRY  
COMPUTATIONAL FLUID DYNAMICS  
DIFFERENCE EQUATIONS  
ERROR ANALYSIS  
FINITE VOLUME METHOD  
FLUX VECTOR SPLITTING  
GLIMM METHOD  
GREGG CALCULUS  
INTERPOLATION  
ITERATION  
CONJUGATE GRADIENT METHOD  
ITERATIVE SOLUTION  
NEWTON METHODS  
PREDICTOR-CORRECTOR METHODS  
MONTE CARLO METHOD  
NOMOGRAPHS  
NUMERICAL INTEGRATION  
RUNGE-KUTTA METHOD  
TRUNCATION ERRORS  
PFAFF EQUATION  
PHASE-SPACE INTEGRAL  
REAL VARIABLES  
ABEL FUNCTION  
ASYMPTOTES  
BESSEL FUNCTIONS  
HANKEL FUNCTIONS  
BETHE-SALPETER EQUATION  
CALCULUS OF VARIATIONS  
COMPOSITE FUNCTIONS  
DELTA FUNCTION  
DIFFERENTIAL EQUATIONS  
BLASIUS EQUATION  
CHANDRASEKHAR EQUATION  
COSINE SERIES  
DUFFING DIFFERENTIAL EQUATION  
FALKNER-SKAN EQUATION  
HYPERBOLIC DIFFERENTIAL  
EQUATIONS  
LAME WAVE EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
BIHARMONIC EQUATIONS  
BURGER EQUATION  
CAUCHY-RIEMANN EQUATIONS  
ELLIPTIC DIFFERENTIAL  
EQUATIONS

## ANCHORS (FASTENERS)

### ANALYSIS (MATHEMATICS)-(CONT.)

- ... MONGE-AMPERE EQUATION
- ... EULER-CAUCHY EQUATIONS
- ... FOKKER-PLANCK EQUATION
- ... GAUSS EQUATION
- ... HELMHOLTZ VORTICITY EQUATION
- ... LIOUVILLE EQUATIONS
- ... PARABOLIC DIFFERENTIAL EQUATIONS
- ... POISSON EQUATION
- ... VLASOV EQUATIONS
- ... RICCATI EQUATION
- ... VORTICITY EQUATIONS
- ... HELMHOLTZ VORTICITY EQUATION
- ... EINSTEIN EQUATIONS
- ... EXISTENCE THEOREMS
- ... EXTREMUM VALUES
- ... LIMITS (MATHEMATICS)
- ... MAXIMA
- ... MINIMA
- ... FOURIER-BESSEL TRANSFORMATIONS
- ... GREEN'S FUNCTIONS
- ... HYPERBOLIC FUNCTIONS
- ... HYPERPLANES
- ... JACOBI INTEGRAL
- ... JACOBI MATRIX METHOD
- ... KERNEL FUNCTIONS
- ... LIAPUNOV FUNCTIONS
- ... LINEAR EQUATIONS
- ... LINEAR EVOLUTION EQUATIONS
- ... RICCATI EQUATION
- ... LIPSCHITZ CONDITION
- ... MEASURE AND INTEGRATION
- ... BINARY INTEGRATION
- ... BOREL SETS
- ... FUNCTIONAL INTEGRATION
- ... INTEGRAL CALCULUS
- ... J INTEGRAL
- ... LEBESGUE THEOREM
- ... NUMERICAL INTEGRATION
- ... RUNGE-KUTTA METHOD
- ... STIELTJES INTEGRAL
- ... WEIGHTING FUNCTIONS
- ... NEUMANN PROBLEM
- ... NONLINEAR EQUATIONS
- ... CUBIC EQUATIONS
- ... DUFFING DIFFERENTIAL EQUATION
- ... MONGE-AMPERE EQUATION
- ... NONLINEAR EVOLUTION EQUATIONS
- ... QUADRATIC EQUATIONS
- ... QUARTIC EQUATIONS
- ... NUMERICAL DIFFERENTIATION
- ... PERIODIC FUNCTIONS
- ... TRIGONOMETRIC FUNCTIONS
- ... COSINE SERIES
- ... SINE SERIES
- ... TANGENTS
- ... SERIES (MATHEMATICS)
- ... ASYMPTOTIC SERIES
- ... CAMPBELL-HAUSDORFF SERIES
- ... COSINE SERIES
- ... FOURIER SERIES
- ... PADE APPROXIMATION
- ... POWER SERIES
- ... TAYLOR SERIES
- ... MACLAURIN SERIES
- ... PROGRESSIONS
- ... PRONY SERIES
- ... SINE SERIES
- ... STURM-LIOUVILLE THEORY
- ... VECTOR ANALYSIS
- ... COLLINEARITY
- ... COPLANARITY
- ... CURL (VECTORS)
- ... VORTICITY
- ... WEIERSTRASS FUNCTIONS
- ... WHITTAKER FUNCTIONS

RT

### ALGEBRA

- ∞ ANALYZING
- ∞ APPLICATIONS OF MATHEMATICS
- DISCONTINUITY
- EQUILIBRIUM EQUATIONS
- GEOMETRY
- ∞ MATHEMATICS
- MONOTONE FUNCTIONS
- ∞ SPACE
- TREES (MATHEMATICS)
- VECTOR SPACES
- VENN DIAGRAMS

### ANCHORS (FASTENERS)

- GS FASTENERS
- ... ANCHORS (FASTENERS)
- RT ∞ BANDS
- BOLTS

### ANCHORS (FASTENERS)-(CONT.)

- BRACKETS
- CLIPS
- COUPLINGS
- GUY WIRES
- HOLDERS
- MOORING
- NUTS (FASTENERS)
- SCREWS
- STRAPS
- STUDS (STRUCTURAL MEMBERS)
- TETHERLINES

### ANECHOIC CHAMBERS

- GS COMPARTMENTS
- ... TEST CHAMBERS
- ... ANECHOIC CHAMBERS
- ... TEST FACILITIES
- ... ANECHOIC CHAMBERS
- RT ACOUSTIC ATTENUATION
- ACOUSTIC MEASUREMENT
- ACOUSTICS
- ∞ CHAMBERS
- ZERO SOUND

### ANELASTICITY

- GS MECHANICAL PROPERTIES
- ... ELASTIC PROPERTIES
- ... ANELASTICITY
- RT CREEP PROPERTIES
- INTERNAL FRICTION
- MODULUS OF ELASTICITY
- STRESS RELAXATION

### ANEMOMETERS

- GS MEASURING INSTRUMENTS
- ... ANEMOMETERS
- ... DRAG FORCE ANEMOMETERS
- ... HOT-FILM ANEMOMETERS
- ... HOT-WIRE ANEMOMETERS
- ... LASER ANEMOMETERS
- ... SONIC ANEMOMETERS
- RT AIRCRAFT INSTRUMENTS
- FLOW MEASUREMENT
- METEOROLOGICAL INSTRUMENTS
- SPEED INDICATORS
- VELOCITY MEASUREMENT
- WIND (METEOROLOGY)
- WIND MEASUREMENT
- WIND VANES
- WIND VELOCITY
- WIND VELOCITY MEASUREMENT

### ANEMOMETRY

- USE VELOCITY MEASUREMENT

### ANGLE OF ATTACK

- GS GEOMETRY
- ... EUCLIDEAN GEOMETRY
- ... ANGLES (GEOMETRY)
- ... ANGLE OF ATTACK
- ... ZERO ANGLE OF ATTACK
- RT AERODYNAMIC CHARACTERISTICS
- AERODYNAMIC STALLING
- BOUNDARY LAYER SEPARATION
- LIFT
- SWEEP ANGLE

### ANIMATION

- GS ARTS
- ... GRAPHIC ARTS
- ... ANIMATION
- ... COMPUTER ANIMATION
- RT CINEMATOGRAPHY
- MOTION PICTURES

### ANISOTROPIC FLUIDS

- GS MEDIA
- ... ANISOTROPIC MEDIA
- ... ANISOTROPIC FLUIDS
- RT ANISOTROPY
- ∞ FLUIDS
- INVARIANT IMBEDDINGS
- ISOTROPY
- LIQUID CRYSTALS
- NEWTONIAN FLUIDS

### ANISOTROPIC MEDIA

- GS MEDIA
- ... ANISOTROPIC MEDIA
- ... ANISOTROPIC FLUIDS
- RT ANISOTROPY
- BIREFRINGENCE
- BIREFRINGENT COATINGS
- HOMOGENEITY

### ANISOTROPIC MEDIA-(CONT.)

- ISOTROPIC MEDIA
- ∞ MATERIALS
- POLARIZATION (WAVES)

### ANISOTROPY

- UF NONISOTROPY
- ONISOTROPY
- PHOTOTHERMOTROPISM
- THERMOTROPISM
- GS ANISOTROPY
- ... PLASTIC ANISOTROPY
- ... ELASTIC ANISOTROPY
- RT AEOLITROPISM
- ANISOTROPIC FLUIDS
- ANISOTROPIC MEDIA
- BIREFRINGENCE
- CRYSTAL STRUCTURE
- CRYSTALS
- DIRECTIVITY
- ISOTROPY
- MECHANICAL PROPERTIES
- METALLOGRAPHY
- POLARIZATION (SPIN ALIGNMENT)
- POLARIZATION (WAVES)
- SPATIAL DISTRIBUTION

### ANNULAR FLOW

- GS FLUID FLOW
- ... AXISYMMETRIC FLOW
- ... ANNULAR FLOW
- RT ANNULI
- AXIAL FLOW
- CHANNEL FLOW
- COAXIAL FLOW
- COUETTE FLOW
- ∞ FLOW
- FLOW GEOMETRY
- HEAT TRANSMISSION
- NOZZLE FLOW
- ONE DIMENSIONAL FLOW
- TURBULENT FLOW

### ANNULAR NOZZLES

- RT ANNULI
- COAXIAL FLOW
- CONICAL NOZZLES
- EXHAUST NOZZLES
- INLET NOZZLES
- ∞ NOZZLES
- PLUG NOZZLES
- ROCKET NOZZLES
- SHROUDED NOZZLES
- SPRAY NOZZLES

### ANNULAR SUSPENSION AND POINTING SYSTEM

- GS FLIGHT CONTROL
- ... POINTING CONTROL SYSTEMS
- ... ANNULAR SUSPENSION AND POINTING SYSTEM
- RT MAGNETIC SUSPENSION
- PAYLOADS
- SPACE SHUTTLES
- SPACE TRANSPORTATION SYSTEM
- SPACELAB
- SPACELAB PAYLOADS
- ∞ SYSTEMS

### ANNULI

- RT ANALYTIC GEOMETRY
- ANNULAR FLOW
- ANNULAR NOZZLES
- ANNULAR PLATES
- FLOW MEASUREMENT
- ∞ RINGS

### ANOLYTES

- GS CONDUCTORS
- ELECTROLYTES
- ... ANOLYTES
- RT CATHOLYTES
- CELL ANODES

### ANTARES ROCKET VEHICLE

- GS ROCKET VEHICLES
- ... MULTISTAGE ROCKET VEHICLES
- ... ANTAIRES ROCKET VEHICLE
- ... SOUNDING ROCKETS
- ... ANTAIRES ROCKET VEHICLE
- RT ATMOSPHERIC IONIZATION
- SOLID PROPELLANT ROCKET ENGINES
- X-254 ENGINE

### ANTELOPE MISSILE

- GS MISSILES



# **ANTELOPE MISSILE-(CONT.)** **ANTELOPE MISSILE**

**ANTHEUS AIRCRAFT**  
 USE AN-22 AIRCRAFT

**ANTIAIRCRAFT MISSILES**  
 GS MISSILES  
 . ANTI-AIRCRAFT MISSILES  
 . BOMARC MISSILES  
 . FALCON MISSILE  
 . MAULER MISSILE  
 . NIKE-AJAX MISSILE  
 . NIKE-HERCULES MISSILE  
 . REDEYE MISSILE  
 . SIAM MISSILES  
 . SIDEWINDER MISSILES  
 . TARTAR MISSILE  
 . TERRIER MISSILE  
 RT AIR TO AIR MISSILES  
 ANTIMISSILE MISSILES  
 NIKE MISSILES  
 RAMJET MISSILES  
 SURFACE TO AIR MISSILES

**ANTIICING ADDITIVES**  
 GS ADDITIVES  
 . ANTIICING ADDITIVES  
 RT ANTIFREEZES  
 DEICERS  
 DEICING  
 FUEL CONTAMINATION  
 ICE PREVENTION  
 INHIBITORS  
 PROPELLANT ADDITIVES  
 RETARDANTS

**ANTIKNOCK ADDITIVES**  
 GS ADDITIVES  
 . ANTIKNOCK ADDITIVES  
 RT AUTOMOBILE FUELS  
 GASOLINE  
 OCTANE  
 OCTANES  
 RETARDANTS

**ANTIMISSILE DEFENSE**  
 SN (PROTECTION AGAINST MISSILE  
 ATTACK)  
 GS AIR DEFENSE  
 . ANTIMISSILE DEFENSE  
 RT ANTIRADIATION MISSILES  
 CIVIL DEFENSE  
 DEFENSE  
 DEFENSE INDUSTRY  
 DEFENSE PROGRAM  
 MILITARY TECHNOLOGY  
 MISSILE DEFENSE  
 MISSILES  
 OPTICAL COUNTERMEASURES  
 SAFEGUARD SYSTEM  
 SENTINEL SYSTEM  
 SPACE SURVEILLANCE (GROUND  
 BASED)  
 SPACE SURVEILLANCE (SPACEBORNE)

**ANTIMISSILE MISSILES**  
 GS MISSILES  
 . ANTIMISSILE MISSILES  
 . MAULER MISSILE  
 . NIKE-ZEUS MISSILE  
 . SPARTAN MISSILE  
 . SPRINT MISSILE  
 RT ANTI-AIRCRAFT MISSILES  
 BALLISTIC MISSILES  
 INFRARED TRACKING  
 MISSILE DEFENSE  
 NIKE MISSILES  
 NIKE X SYSTEMS  
 SENTINEL SYSTEM  
 SIAM MISSILES  
 SPACE WEAPONS  
 SURFACE TO AIR MISSILES

**ANTIMISTING FUELS**  
 GS FUELS  
 . CHEMICAL FUELS  
 . LIQUID FUELS  
 . . . ANTIMISTING FUELS  
 RT ADDITIVES  
 AIRCRAFT FUELS  
 FLAME RETARDANTS  
 JET ENGINE FUELS  
 KEROSENE

**ANTIRADIATION MISSILES**  
 GS MISSILES  
 . ANTIRADIATION MISSILES  
 RT AIR DEFENSE  
 ANTIMISSILE DEFENSE  
 COUNTERMEASURES  
 DIGITAL RADAR SYSTEMS  
 MILITARY TECHNOLOGY  
 MISSILE DEFENSE  
 REMOTE CONTROL

**ANTISKID DEVICES**  
 RT AIRCRAFT BRAKES  
 ARRESTING GEAR  
 AUTOMOBILES  
 BRAKES (FOR ARRESTING MOTION)  
 DEVICES  
 LANDING AIDS  
 SAFETY DEVICES  
 TRUCKS  
 WHEEL BRAKES

**ANTISUBMARINE WARFARE AIRCRAFT**  
 GS ANTISUBMARINE WARFARE AIRCRAFT  
 . BREGUET 1150 AIRCRAFT  
 . CL-84 AIRCRAFT  
 . P-3 AIRCRAFT  
 . S-3 AIRCRAFT  
 . SH-3 HELICOPTER  
 . SH-4 HELICOPTER  
 RT AIRCRAFT  
 ATTACK AIRCRAFT  
 BOMBER AIRCRAFT  
 DRONE AIRCRAFT  
 H-25 HELICOPTER  
 MILITARY AIRCRAFT  
 OBSERVATION AIRCRAFT  
 P-531 HELICOPTER  
 RECONNAISSANCE AIRCRAFT  
 S-61 HELICOPTER  
 SUBMERSIBLE AIRCRAFT  
 V/STOL AIRCRAFT  
 WATER TAKEOFF AND LANDING  
 AIRCRAFT

**ANTITANK MISSILES**  
 GS MISSILES  
 . SURFACE TO SURFACE MISSILES  
 . . . ANTITANK MISSILES  
 . . . SHILLELAGH MISSILES  
 . . . TOW MISSILES

**ANTONOV AIRCRAFT**  
 GS ANTONOV AIRCRAFT  
 . AN-2 AIRCRAFT  
 . AN-22 AIRCRAFT  
 . AN-24 AIRCRAFT  
 RT AIRCRAFT

**ANTONOV AN-22 AIRCRAFT**  
 USE AN-22 AIRCRAFT

**ANTONOV AN-24 AIRCRAFT**  
 USE AN-24 AIRCRAFT

**AO-1 AIRCRAFT**  
 USE OV-1 AIRCRAFT

**APACHE ROCKET VEHICLE**  
 GS ROCKET VEHICLES  
 . SOUNDING ROCKETS  
 . . . APACHE ROCKET VEHICLE  
 RT SONDES

**APPARATUS**  
 USE EQUIPMENT

**APPROACH**  
 GS APPROACH  
 . AIRBORNE RADAR APPROACH  
 . DELAYED FLAP APPROACH  
 . INSTRUMENT APPROACH  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT APPROACH SPACING  
 ARRIVALS  
 DESCENT  
 FLIGHT PATHS  
 FLIGHT PLANS  
 GROUND BASED CONTROL  
 GUIDANCE (MOTION)  
 LANDING  
 LANDING AIDS  
 PASSAGEWAYS  
 TOUCHDOWN

**APPROACH CONTROL**  
 GS APPROACH CONTROL  
 . RADAR APPROACH CONTROL  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT APPROACH SPACING  
 AIRCRAFT COMMUNICATION  
 AIRCRAFT GUIDANCE  
 AIRCRAFT MANEUVERS  
 AUTOMATED EN ROUTE ATC  
 COLLISION AVOIDANCE  
 CONTROL  
 FLIGHT PATHS  
 GLIDE PATHS  
 GROUND BASED CONTROL  
 INSTRUMENT APPROACH  
 INSTRUMENT FLIGHT RULES  
 INSTRUMENT LANDING SYSTEMS  
 LANDING AIDS  
 LANDING RADAR  
 MICROWAVE LANDING SYSTEMS  
 NIGHT FLIGHTS (AIRCRAFT)  
 RUNWAY LIGHTS  
 TRACKING (POSITION)  
 TRAFFIC CONTROL  
 VISUAL CONTROL

**APPROACH INDICATORS**  
 GS AIRCRAFT INSTRUMENTS  
 . APPROACH INDICATORS  
 DISPLAY DEVICES  
 . APPROACH INDICATORS  
 FLIGHT INSTRUMENTS  
 . APPROACH INDICATORS  
 LANDING AIDS  
 . LANDING INSTRUMENTS  
 . APPROACH INDICATORS  
 MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . . APPROACH INDICATORS  
 RT AIR TRAFFIC CONTROL  
 ALTIMETERS  
 BLIND LANDING  
 GLIDE PATHS  
 INSTRUMENT APPROACH  
 INSTRUMENT LANDING SYSTEMS  
 MICROWAVE SCANNING BEAM LANDING  
 SYSTEM  
 NAVIGATION AIDS  
 RADAR APPROACH CONTROL  
 SOLAR COMPASSES  
 SPEED INDICATORS

**APPROXIMATION**  
 UF APPROXIMATION METHODS  
 NOMINAL VALUES  
 TRUNCATION (MATHEMATICS)  
 GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . . APPROXIMATION  
 . . . BORN APPROXIMATION  
 . . . BORN-OPPENHEIMER  
 APPROXIMATION  
 . . . CHEBYSHEV APPROXIMATION  
 . . . EDDINGTON APPROXIMATION  
 . . . ESSENTIALLY NON-OSCILLATORY  
 SCHEMES  
 . . . FINITE DIFFERENCE THEORY  
 . . . FINITE ELEMENT METHOD  
 . . . HARTREE APPROXIMATION  
 . . . LEAST SQUARES METHOD  
 . . . MEAN SQUARE VALUES  
 . . . MILNE METHOD  
 . . . MULTIGRID METHODS  
 . . . NEWTON METHODS  
 . . . NEWTON-RAPHSON METHOD  
 . . . NUMERICAL DIFFERENTIATION  
 . . . OSEEN APPROXIMATION  
 . . . PADE APPROXIMATION  
 . . . PARTICLE IN CELL TECHNIQUE  
 . . . POHLHAUSEN METHOD  
 . . . PREDICTOR-CORRECTOR METHODS  
 . . . RAYLEIGH-RITZ METHOD  
 . . . RELAXATION METHOD  
 (MATHEMATICS)  
 . . . RITZ AVERAGING METHOD  
 . . . SCHWARTZ METHOD  
 . . . SOMMERFELD APPROXIMATION  
 . . . TVD SCHEMES  
 RT APPLICATIONS OF MATHEMATICS  
 CENSORED DATA (MATHEMATICS)  
 DIFFERENCE EQUATIONS  
 EQUATIONS  
 FORM FACTORS  
 GLAUBER THEORY  
 METHODOLOGY

## APPROXIMATION METHODS

### APPROXIMATION-(CONT.)

MINIMAX TECHNIQUE  
NUMERICAL STABILITY  
PROBLEM SOLVING  
∞ RELATIONSHIPS  
SPLINE FUNCTIONS  
STATIC MODELS  
STATISTICAL ANALYSIS

### APPROXIMATION METHODS

USE APPROXIMATION

### ARC CHAMBERS

RT ∞ CHAMBERS  
ELECTRIC ARCS  
PLASMA GENERATORS  
THRUST CHAMBERS

### ARCAS ROCKET VEHICLES

GS ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
ARCAS ROCKET VEHICLES  
SOUNDING ROCKETS  
ARCAS ROCKET VEHICLES  
RT RADIOSONDES  
SOLID PROPELLANT ROCKET ENGINES  
∞ VEHICLES

### ARCON ROCKET VEHICLE

GS ROCKET VEHICLES  
ARCON ROCKET VEHICLE  
RT ∞ VEHICLES

### AREA

RT ∞ CROSS SECTIONS  
GEOMETRY  
INTEGRAL CALCULUS  
LINE OF SIGHT  
∞ SECTORS  
∞ SURFACES  
VOLUME

### AREA NAVIGATION

GS NAVIGATION  
AIR NAVIGATION  
AREA NAVIGATION  
RT FLIGHT PATHS  
GROUND TRACKS

### ARGO ROCKET VEHICLES

GS ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
ARGO ROCKET VEHICLES  
RT HONEST JOHN ROCKET VEHICLE  
JAVELIN ROCKET VEHICLE  
NIKE-AJAX MISSILE  
SOLID PROPELLANT ROCKET ENGINES  
SOUNDING ROCKETS  
∞ VEHICLES

### ARGOSY MK-1 AIRCRAFT

GS HAWKER SIDDELEY AIRCRAFT  
ARGOSY MK-1 AIRCRAFT  
JET AIRCRAFT  
TURBOPROP AIRCRAFT  
ARGOSY MK-1 AIRCRAFT  
MONOPLANES  
ARGOSY MK-1 AIRCRAFT  
TRANSPORT AIRCRAFT  
ARGOSY MK-1 AIRCRAFT  
RT ∞ AIRCRAFT

### ARIANE LAUNCH VEHICLE

GS LAUNCH VEHICLES  
ARIANE LAUNCH VEHICLE  
ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
ARIANE LAUNCH VEHICLE  
RT ELDO LAUNCH VEHICLE  
EUROPA LAUNCH VEHICLES  
EUROPEAN SPACE AGENCY  
EUROPEAN SPACE PROGRAMS  
GEOSARI PROJECT

### ARIS INSTRUMENTATION SHIP

USE ADVANCED RANGE INSTRUMENTATION SHIP

### ARMY-NAVY INSTRUMENTATION PROGRAM

GS PROGRAMS  
ARMY-NAVY INSTRUMENTATION PROGRAM  
RT LOGISTICS  
MILITARY TECHNOLOGY

### AROD (RANGE-ORBIT DETERMINATION)

USE AIRBORNE RANGE AND ORBIT DETERMINATION

### ARRESTING GEAR

GS LANDING AIDS  
ARRESTING GEAR  
SAFETY DEVICES  
ARRESTING GEAR  
RT ABORT APPARATUS  
AIRCRAFT CARRIERS  
AIRCRAFT SAFETY  
ANTISKID DEVICES  
∞ ARRESTERS  
∞ BARRIERS  
BRAKES (FOR ARRESTING MOTION)  
CRASH LANDING  
∞ GEAR

### ARRIVALS

RT APPROACH  
LANDING

### ARROW WINGS

GS AIRFOILS  
WINGS  
SWEEP WINGS  
SWEEPBACK WINGS  
ARROW WINGS  
PLANFORMS  
WING PLANFORMS  
SWEEPBACK WINGS  
ARROW WINGS  
RT CARET WINGS  
DELTA WINGS  
VARIABLE SWEEP WINGS

### ASCENT

GS ASCENT  
CLIMBING FLIGHT  
RT BALLOONS  
DESCENT  
LUNAR MODULE ASCENT STAGE  
TAKEOFF

### ASCENT PROPULSION SYSTEMS

GS PROPULSION  
ASCENT PROPULSION SYSTEMS  
PROPULSION SYSTEM CONFIGURATIONS  
ASCENT PROPULSION SYSTEMS  
RT LUNAR MODULE  
MISSILES  
PROPELLANTS  
ROCKET PROPELLANTS  
SPACE FLIGHT  
SPACE SHUTTLE ASCENT STAGE  
∞ SYSTEMS

### ASCENT TRAJECTORIES

GS TRAJECTORIES  
ASCENT TRAJECTORIES  
RT BALLISTIC TRAJECTORIES  
CLIMBING FLIGHT  
COASTING FLIGHT  
DESCENT TRAJECTORIES  
FLIGHT MECHANICS  
GUIDANCE (MOTION)  
INJECTION GUIDANCE  
LOFTING  
LUNAR MODULE ASCENT STAGE  
MIDCOURSE TRAJECTORIES  
MISSILE TRAJECTORIES  
PARABOLIC FLIGHT  
POST BOOST PROPULSION SYSTEM  
RENDEZVOUS TRAJECTORIES  
SPACECRAFT TRAJECTORIES

### ASDE

USE AIRPORT SURFACE DETECTION EQUIPMENT

### ASHES

GS ASHES  
FLY ASH  
RT AIR POLLUTION  
COAL  
COMBUSTION PRODUCTS  
CULTIVATION  
FERTILIZERS  
FIRE DAMAGE  
FOREST FIRES  
LIGNITE  
REACTION PRODUCTS  
RESIDUES

### ASP ROCKET VEHICLE

UF NIKE-ASP ROCKET  
GS ROCKET VEHICLES  
SOUNDING ROCKETS  
ASP ROCKET VEHICLE  
RT SONDES

### ASPECT RATIO

GS RATIOS  
ASPECT RATIO  
HIGH ASPECT RATIO  
LOW ASPECT RATIO  
RT AERODYNAMIC CHARACTERISTICS  
AIRFOILS  
FINENESS RATIO  
LIFT  
∞ SPAN  
WINGS

### ASSEMBLING

GS ASSEMBLING  
ORBITAL ASSEMBLY  
RT ASSEMBLIES  
ASSEMBLY  
ATTACHMENT  
CLEAN ROOMS  
COLLECTION  
CONSTRUCTION  
FABRICATION  
FITTING  
INSTALLING  
∞ JOINING  
MOUNTING  
PREPARATION  
RIGGING  
SPACE MANUFACTURING

### ASSET GLIDERS

GS GLIDERS  
ASSET GLIDERS  
RT AIRCRAFT  
HYPERSONIC GLIDERS  
LIFTING REENTRY VEHICLES

### ASTRONICS

RT ∞ ASTRONAUTICS  
AVIONICS  
∞ CONTROL  
∞ ELECTRONICS  
GUIDANCE (MOTION)  
SATELLITE COMMUNICATION  
SINGLE EVENT UPSETS  
SPACECRAFT COMMUNICATION  
SPACECRAFT ELECTRONIC EQUIPMENT  
SPACECRAFT INSTRUMENTS  
∞ TEST EQUIPMENT

### ASTRO VEHICLE

SN (EXCLUDES STS)  
GS MANEUVERABLE SPACECRAFT  
ASTRO VEHICLE  
MANNED SPACECRAFT  
ASTRO VEHICLE  
REENTRY VEHICLES  
RECOVERABLE SPACECRAFT  
ASTRO VEHICLE  
SOFT LANDING SPACECRAFT  
ASTRO VEHICLE  
RT AEROSPACE PLANES  
BOOSTGLIDE VEHICLES  
FERRY SPACECRAFT  
LIFTING REENTRY VEHICLES  
∞ SPACECRAFT

### ASTROBEE ROCKET VEHICLES

GS ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
ASTROBEE ROCKET VEHICLES  
ASTROBEE 1500 ROCKET VEHICLE  
SOUNDING ROCKETS  
ASTROBEE ROCKET VEHICLES  
ASTROBEE 1500 ROCKET VEHICLE  
RT GENIE ROCKET VEHICLE  
SOLID PROPELLANT ROCKET ENGINES  
∞ VEHICLES

### ASTROBEE 1500 ROCKET VEHICLE

GS ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
ASTROBEE ROCKET VEHICLES  
ASTROBEE 1500 ROCKET VEHICLE  
SOUNDING ROCKETS  
ASTROBEE ROCKET VEHICLES  
ASTROBEE 1500 ROCKET VEHICLE  
RT SOLID PROPELLANT ROCKET ENGINES

**ASTROGUIDE NAVIGATION SYSTEM**

GS NAVIGATION  
 . CELESTIAL NAVIGATION  
 . . **ASTROGUIDE NAVIGATION SYSTEM**  
 . INERTIAL NAVIGATION  
 . . **ASTROGUIDE NAVIGATION SYSTEM**  
 RT INERTIAL COORDINATES  
 STAR TRACKERS  
 ∞ SYSTEMS

**ASTROMASTS**

USE LONGERONS

**ASTRONAVIGATION**

GS NAVIGATION  
 . CELESTIAL NAVIGATION  
 . . **ASTRONAVIGATION**  
 RT AIR NAVIGATION  
 INTERPLANETARY NAVIGATION  
 INTERSTELLAR TRAVEL  
 RADIO NAVIGATION  
 SPACE NAVIGATION

**ASTRONOMICAL COORDINATES**

GS COORDINATES  
 . **ASTRONOMICAL COORDINATES**  
 RT AZIMUTH  
 . CELESTIAL REFERENCE SYSTEMS  
 CYLINDRICAL COORDINATES  
 GEOCENTRIC COORDINATES  
 NORTHERN SKY  
 PLANETOCENTRIC COORDINATES  
 PLANISPHERES  
 POLAR COORDINATES  
 REFERENCE STARS  
 SOLAR LONGITUDE  
 SPHERICAL COORDINATES

**ASTRONOMICAL MAPS**

GS MAPS  
 . **ASTRONOMICAL MAPS**  
 . . PLANISPHERES  
 RT ASTROGRAPHY  
 ASTROMETRY  
 CELESTIAL REFERENCE SYSTEMS  
 CELESTIAL SPHERE  
 LUNAR MAPS

**ATARS**

USE AUTOMATIC TRAFFIC ADVISORY AND  
 RESOLUTION

**ATHENA ROCKET VEHICLE**

GS ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . **ATHENA ROCKET VEHICLE**  
 RT BE-3 ENGINE  
 REENTRY VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES

**ATHOODYDS**

USE RAMJET ENGINES

**ATLANTIC AIRCRAFT**

USE BREGUET 1150 AIRCRAFT

**ATLANTIS (ORBITER)**

UF SPACE SHUTTLE ORBITER 104  
 GS MANNED SPACECRAFT  
 . SPACE SHUTTLE ORBITERS  
 . . **ATLANTIS (ORBITER)**  
 REENTRY VEHICLES  
 . RECOVERABLE SPACECRAFT  
 . . REUSABLE SPACECRAFT  
 . . . SPACE SHUTTLE ORBITERS  
 . . . **ATLANTIS (ORBITER)**  
 RT MANNED SPACE FLIGHT  
 SPACE SHUTTLE MISSION 51-H  
 SPACE SHUTTLE MISSION 51-J  
 SPACE SHUTTLE MISSION 61-B  
 ∞ SPACECRAFT

**ATLAS ABLE 5 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . ATLAS LAUNCH VEHICLES  
 . . **ATLAS ABLE 5 LAUNCH VEHICLE**  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . ATLAS LAUNCH VEHICLES  
 . . . **ATLAS ABLE 5 LAUNCH VEHICLE**  
 RT LUNAR PROBES  
 SPACE PROBES

**ATLAS AGENA B LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . ATLAS LAUNCH VEHICLES  
 . . **ATLAS AGENA B LAUNCH VEHICLE**  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . ATLAS LAUNCH VEHICLES  
 . . . **ATLAS AGENA B LAUNCH VEHICLE**  
 RT AGENA ROCKET VEHICLES  
 MARINER 2 SPACE PROBE  
 MIDAS SATELLITES  
 RANGER LUNAR PROBES  
 RANGER 4 LUNAR PROBE

**ATLAS AGENA LAUNCH VEHICLES**

GS LAUNCH VEHICLES  
 . ATLAS LAUNCH VEHICLES  
 . . **ATLAS AGENA LAUNCH VEHICLES**  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . ATLAS LAUNCH VEHICLES  
 . . . **ATLAS AGENA LAUNCH VEHICLES**  
 RT AGENA ROCKET VEHICLES  
 ENVIRONMENTAL RESEARCH  
 SATELLITES  
 ERS 17  
 ERS 18  
 MARINER PROGRAM  
 MARINER 5 SPACE PROBE  
 MARINER 6 SPACE PROBE  
 OGO-A  
 ∞ VEHICLES

**ATLAS CENTAUR LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . ATLAS LAUNCH VEHICLES  
 . . **ATLAS CENTAUR LAUNCH VEHICLE**  
 . CENTAUR LAUNCH VEHICLE  
 . . **ATLAS CENTAUR LAUNCH VEHICLE**  
 ROCKET VEHICLES  
 . CENTAUR LAUNCH VEHICLE  
 . . **ATLAS CENTAUR LAUNCH VEHICLE**  
 . MULTISTAGE ROCKET VEHICLES  
 . . ATLAS LAUNCH VEHICLES  
 . . . **ATLAS CENTAUR LAUNCH VEHICLE**  
 RT CENTAUR PROJECT  
 OAO 1  
 OAO 2  
 OAO 3  
 RL-10 ENGINES  
 SPACE SHUTTLE UPPER STAGE A  
 SURVEYOR PROJECT  
 SURVEYOR 1 LUNAR PROBE  
 SURVEYOR 2 LUNAR PROBE  
 SURVEYOR 3 LUNAR PROBE  
 SURVEYOR 4 LUNAR PROBE  
 SURVEYOR 5 LUNAR PROBE  
 SURVEYOR 6 LUNAR PROBE  
 SURVEYOR 7 LUNAR PROBE

**ATLAS D ICBM**

GS MISSILES  
 . BALLISTIC MISSILES  
 . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . ATLAS ICBM  
 . . . **ATLAS D ICBM**  
 . SURFACE TO SURFACE MISSILES  
 . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . ATLAS ICBM  
 . . . **ATLAS D ICBM**  
 RT CENTAUR LAUNCH VEHICLE  
 STANDARD LAUNCH VEHICLES  
 VEGA LAUNCH VEHICLE

**ATLAS E ICBM**

GS MISSILES  
 . BALLISTIC MISSILES  
 . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . ATLAS ICBM  
 . . . **ATLAS E ICBM**  
 . SURFACE TO SURFACE MISSILES  
 . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . ATLAS ICBM  
 . . . **ATLAS E ICBM**

**ATLAS ICBM**

GS MISSILES  
 . BALLISTIC MISSILES  
 . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . **ATLAS ICBM**

**ATLAS ICBM-(CONT.)**

. . . . ATLAS D ICBM  
 . . . . ATLAS E ICBM  
 . . . . ATLAS F ICBM  
 . SURFACE TO SURFACE MISSILES  
 . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . **ATLAS ICBM**  
 . . . . ATLAS D ICBM  
 . . . . ATLAS E ICBM  
 . . . . ATLAS F ICBM  
 RT MA-2 ENGINE  
 MA-3 ENGINE

**ATLAS LAUNCH VEHICLES**

UF SM-65 MISSILE  
 GS LAUNCH VEHICLES  
 . **ATLAS LAUNCH VEHICLES**  
 . . ATLAS ABLE 5 LAUNCH VEHICLE  
 . . ATLAS AGENA B LAUNCH VEHICLE  
 . . ATLAS AGENA LAUNCH VEHICLES  
 . . ATLAS CENTAUR LAUNCH VEHICLE  
 . . ATLAS SLV-3 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . **ATLAS LAUNCH VEHICLES**  
 . . . ATLAS ABLE 5 LAUNCH VEHICLE  
 . . . ATLAS AGENA B LAUNCH VEHICLE  
 . . . ATLAS AGENA LAUNCH VEHICLES  
 . . . ATLAS CENTAUR LAUNCH VEHICLE  
 . . . ATLAS SLV-3 LAUNCH VEHICLE  
 RT EGO  
 GEMINI PROJECT  
 MA-5 ENGINE  
 MARINER PROGRAM  
 MERCURY FLIGHTS  
 MERCURY MA-1 FLIGHT  
 MERCURY MA-2 FLIGHT  
 MERCURY MA-3 FLIGHT  
 MERCURY MA-4 FLIGHT  
 MERCURY MA-5 FLIGHT  
 MERCURY MA-6 FLIGHT  
 MERCURY MA-7 FLIGHT  
 MERCURY MA-8 FLIGHT  
 MERCURY MA-9 FLIGHT  
 MERCURY PROJECT  
 NOMAD LAUNCH VEHICLE  
 OAO  
 ORBITAL RENDEZVOUS  
 RANGER PROJECT  
 ∞ VEHICLES

**ATLAS SLV-3 LAUNCH VEHICLE**

UF STANDARD LAUNCH VEHICLE 3  
 GS LAUNCH VEHICLES  
 . ATLAS LAUNCH VEHICLES  
 . . **ATLAS SLV-3 LAUNCH VEHICLE**  
 . STANDARD LAUNCH VEHICLES  
 . . **ATLAS SLV-3 LAUNCH VEHICLE**  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . ATLAS LAUNCH VEHICLES  
 . . . **ATLAS SLV-3 LAUNCH VEHICLE**  
 . STANDARD LAUNCH VEHICLES  
 . . **ATLAS SLV-3 LAUNCH VEHICLE**  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 MA-5 ENGINE

**ATLIT PROJECT**

UF ADVANCED TECHNOLOGY LIGHT TWIN  
 AIRCRAFT  
 GS PROGRAMS  
 . NASA PROGRAMS  
 . . **ATLIT PROJECT**  
 . PROJECTS  
 . . **ATLIT PROJECT**  
 RT ∞ AIRCRAFT  
 GAW-1 AIRFOIL  
 PA-34 SENECA AIRCRAFT

**ATMOSPHERIC DENSITY**

GS DENSITY (MASS/VOLUME)  
 . **ATMOSPHERIC DENSITY**  
 RT AIR POLLUTION  
 BOLTZMANN DISTRIBUTION  
 ∞ DENSITY  
 DENSITY (NUMBER/VOLUME)  
 ELECTRON DENSITY (CONCENTRATION)  
 HUMIDITY  
 ION DENSITY (CONCENTRATION)  
 MAGNETOSPHERIC ELECTRON DENSITY  
 MAGNETOSPHERIC ION DENSITY  
 MAGNETOSPHERIC PROTON DENSITY  
 METEOROLOGY  
 PARTICLE DENSITY (CONCENTRATION)

## ATMOSPHERIC DIFFUSION

### ATMOSPHERIC DENSITY-(CONT.)

PLANETARY ATMOSPHERES  
PLASMA DENSITY  
PROTON DENSITY (CONCENTRATION)  
SPACE DENSITY

### ATMOSPHERIC DIFFUSION

GS DIFFUSION  
RT **ATMOSPHERIC DIFFUSION**  
BOLTZMANN DISTRIBUTION  
MOLECULAR DIFFUSION  
POLLUTION TRANSPORT  
RADIO SCATTERING  
TURBULENT DIFFUSION

### ATMOSPHERIC ENTRY

UF PLANETARY ENTRY  
GS **ATMOSPHERIC ENTRY**  
REENTRY  
HYPERBOLIC REENTRY  
HYPERSONIC REENTRY  
UNCONTROLLED REENTRY (SPACECRAFT)  
MANNED REENTRY  
SPACECRAFT REENTRY  
UNCONTROLLED REENTRY (SPACECRAFT)  
RT ABLATION  
AEROASSIST  
AEROCAPTURE  
AERODYNAMIC HEATING  
AEROMANEUVERING  
BOLIDES  
DESCENT TRAJECTORIES  
EARTH ATMOSPHERE  
ENTRY  
ENTRY GUIDANCE (STS)  
FALLING  
GALILEO PROJECT  
GAS GUNS  
ORBIT DECAY  
SPACE FLIGHT  
SPACECRAFT BREAKUP

### ATMOSPHERIC ENTRY SIMULATION

GS SIMULATION  
EXHAUST FLOW SIMULATION  
RT **ATMOSPHERIC ENTRY SIMULATION**  
ENVIRONMENT SIMULATION  
FLIGHT SIMULATORS  
LANDING SIMULATION  
SPACE ENVIRONMENT SIMULATION

### ATMOSPHERIC HEATING

SN (EXCLUDES AERODYNAMIC HEATING)  
GS HEATING  
ATMOSPHERIC HEATING  
GLOBAL WARMING  
STRATOSPHERIC WARMING  
RT BOLIDES

### ATMOSPHERIC LOADING

USE POLLUTION TRANSPORT

### ATMOSPHERIC PHYSICS

UF AEROPHYSICS  
GS **ATMOSPHERIC PHYSICS**  
CLOUD PHYSICS  
RT AERONOMY  
BRUNT-VAISALA FREQUENCY  
DUST STORMS  
INTERNATIONAL MAGNETOSPHERIC STUDY  
MAGNETOSPHERE-IONOSPHERE COUPLING  
METEOROLOGY  
NEUTRAL SHEETS  
PHYSICS  
PLANETARY METEOROLOGY  
SATELLITE ATMOSPHERES  
SCIENCE  
SECULAR VARIATIONS  
TURBOPAUSE

### ATMOSPHERIC TURBULENCE

GS TURBULENCE  
ATMOSPHERIC TURBULENCE  
CLEAR AIR TURBULENCE  
GUSTS  
LOW LEVEL TURBULENCE  
RT AVIATION METEOROLOGY  
DISSIPATION  
GUST LOADS  
HOMOGENEOUS TURBULENCE  
ISOTROPIC TURBULENCE

### ATMOSPHERIC TURBULENCE-(CONT.)

LAMINAR FLOW  
METEOROLOGICAL PARAMETERS  
METEOROLOGY  
SEEING (ASTRONOMY)  
TEPHIGRAMS  
TURBOPAUSE  
TURBULENT DIFFUSION  
TURBULENT FLOW  
WIND VARIATIONS

### ATMOSPHERIC WINDOWS

RT ASTRONOMICAL PHOTOGRAPHY  
ASTRONOMICAL PHOTOMETRY

### ATOM CONCENTRATION

GS COMPOSITION (PROPERTY)  
CONCENTRATION (COMPOSITION)  
RT **ATOM CONCENTRATION**  
CHEMICAL COMPOSITION  
DENSITY  
ELECTRON DENSITY (CONCENTRATION)  
FLUX DENSITY  
GAS COMPOSITION  
GAS DENSITY  
ION DENSITY (CONCENTRATION)  
IONOSPHERIC COMPOSITION  
PLASMA COMPOSITION  
PLASMA DENSITY  
PROTON DENSITY (CONCENTRATION)

### ATOMIC GASES

USE MONATOMIC GASES

### ATOMIZERS

RT ATOMIZING  
EVAPORATORS  
GRINDING MILLS  
NOZZLES  
SPRAYERS

### ATTACK AIRCRAFT

GS **ATTACK AIRCRAFT**  
A-1 AIRCRAFT  
A-7 AIRCRAFT  
A-9 AIRCRAFT  
A-10 AIRCRAFT  
A-37 AIRCRAFT  
AH-63 HELICOPTER  
AH-64 HELICOPTER  
BOMBER AIRCRAFT  
A-2 AIRCRAFT  
A-3 AIRCRAFT  
A-4 AIRCRAFT  
A-5 AIRCRAFT  
A-6 AIRCRAFT  
B-1 AIRCRAFT  
B-26 AIRCRAFT  
B-47 AIRCRAFT  
B-50 AIRCRAFT  
B-52 AIRCRAFT  
B-57 AIRCRAFT  
B-58 AIRCRAFT  
B-66 AIRCRAFT  
B-70 AIRCRAFT  
F-100 AIRCRAFT  
SHACKLETON BOMBER  
VALIANT AIRCRAFT  
VICTOR MK-1 AIRCRAFT  
VULCAN AIRCRAFT  
BREGUET 1150 AIRCRAFT  
BUCCANEER AIRCRAFT  
CL-41 AIRCRAFT  
DH 112 AIRCRAFT  
DH 115 AIRCRAFT  
FIGHTER AIRCRAFT  
ALPHA JET AIRCRAFT  
F-2 AIRCRAFT  
F-4 AIRCRAFT  
F-5 AIRCRAFT  
F-8 AIRCRAFT  
F-9 AIRCRAFT  
F-14 AIRCRAFT  
F-15 AIRCRAFT  
F-16 AIRCRAFT  
F-17 AIRCRAFT  
F-18 AIRCRAFT  
F-20 AIRCRAFT  
F-27 AIRCRAFT  
F-84 AIRCRAFT  
F-86 AIRCRAFT  
F-89 AIRCRAFT  
F-94 AIRCRAFT  
F-100 AIRCRAFT  
F-101 AIRCRAFT

### ATTACK AIRCRAFT-(CONT.)

F-102 AIRCRAFT  
F-104 AIRCRAFT  
F-105 AIRCRAFT  
F-106 AIRCRAFT  
F-111 AIRCRAFT  
FV-12A AIRCRAFT  
G-91 AIRCRAFT  
G-85/4 AIRCRAFT  
GA-5 AIRCRAFT  
HARRIER AIRCRAFT  
JAGUAR AIRCRAFT  
JET PROVOST AIRCRAFT  
MIG AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
P-51 AIRCRAFT  
P-1127 AIRCRAFT  
P-1154 AIRCRAFT  
SAAB 37 AIRCRAFT  
SCIMITAR AIRCRAFT  
VAMPIRE MK 35 AIRCRAFT  
VJ-101 AIRCRAFT  
YF-12 AIRCRAFT  
YF-16 AIRCRAFT  
OV-10 AIRCRAFT  
P-308 AIRCRAFT  
T-2 AIRCRAFT  
TSR-2 AIRCRAFT  
RT AEROQUATIC VEHICLES  
AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
JET AIRCRAFT  
MILITARY AIRCRAFT  
MILITARY HELICOPTERS  
MRCA AIRCRAFT  
SUPERSONIC AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
V/STOL AIRCRAFT

### ATTENUATION

GS **ATTENUATION**  
ATMOSPHERIC ATTENUATION  
AURORAL ABSORPTION  
MICROWAVE ATTENUATION  
SIDELOBE REDUCTION  
WAVE ATTENUATION  
ACOUSTIC ATTENUATION  
SHOCK WAVE ATTENUATION  
RADAR ATTENUATION  
RADIO ATTENUATION  
RT ABSORPTION  
ATTENUATORS  
CONDUCTION  
DAMPING  
DIFFRACTION  
DILUTION  
DISSIPATION  
ELECTROMAGNETIC ABSORPTION  
ELECTROMAGNETIC WAVE TRANSMISSION  
ELIMINATION  
FADING  
IMPINGEMENT  
INHIBITION  
INTERNAL FRICTION  
LIGHT (VISIBLE RADIATION)  
MECHANICAL IMPEDANCE  
PROPAGATION  
REDUCTION  
RETARDING  
SHIELDING  
SIGNAL FADING  
SIGNAL TO NOISE RATIOS  
SOUND PROPAGATION  
SOUND TRANSMISSION  
SPATIAL FILTERING  
TRANSMISSION  
TRANSMISSION LOSS  
TRANSMITTERS  
VIBRATION DAMPING  
WAVE DEGRADATION  
WAVE DIFFRACTION  
WAVE DISPERSION  
WAVE PROPAGATION

### ATTENUATION COEFFICIENTS

GS COEFFICIENTS  
RT **ATTENUATION COEFFICIENTS**  
DIFFUSION COEFFICIENT  
FLOW COEFFICIENTS  
IMPEDANCE  
OPACITY  
REFLECTANCE  
SCATTERING COEFFICIENTS

**ATTENUATION COEFFICIENTS-(CONT.)**

TRANSMISSION EFFICIENCY  
TRANSMITTANCE

**ATTITUDE (INCLINATION)**

UF SPATIAL ORIENTATION  
TILT  
TILTING  
GS **ATTITUDE (INCLINATION)**  
. PITCH (INCLINATION)  
. ROLL  
. SATELLITE ORIENTATION  
. YAW  
RT HORIZONTAL ORIENTATION  
INSTRUMENT ORIENTATION  
MISALIGNMENT  
∞ MOTION  
∞ ORIENTATION  
∞ POSITION  
∞ SPACE ORIENTATION  
STABILITY AUGMENTATION  
TILTMETERS  
VERTICAL ORIENTATION

**ATTITUDE CONTROL**

GS **ATTITUDE CONTROL**  
. DIRECTIONAL CONTROL  
. THRUST VECTOR CONTROL  
. LATERAL CONTROL  
. LONGITUDINAL CONTROL  
. SATELLITE ATTITUDE CONTROL  
RT AIR TRAFFIC CONTROL  
AIRCRAFT CONTROL  
AUTOMATIC CONTROL  
COLD GAS  
∞ CONTROL  
CONTROL MOMENT GYROSCOPES  
FLIGHT CONTROL  
GUIDANCE SENSORS  
HELICOPTER CONTROL  
HORIZON SCANNERS  
MAGNETIC CONTROL  
MANUAL CONTROL  
MIRANDA SATELLITE  
MISSILE CONTROL  
ORBITAL LIFETIME  
REACTION WHEELS  
REMOTE CONTROL  
ROCKET ENGINE CONTROL  
SATELLITE CONTROL  
SOLAR SENSORS  
SPACECRAFT CONTROL  
SPACING  
SPIN STABILIZATION  
STAR TRACKERS  
THRUST CONTROL  
TRAJECTORY CONTROL  
VISUAL CONTROL

**ATTITUDE GYROS**

GS GYROSCOPES  
. **ATTITUDE GYROS**  
. GYRO HORIZONS  
RT CONTROL MOMENT GYROSCOPES  
SEA KEEPING

**ATTITUDE INDICATORS**

UF HELICOPTER ATTITUDE INDICATORS  
YAWMETERS  
GS FLIGHT INSTRUMENTS  
. **ATTITUDE INDICATORS**  
. GYRO HORIZONS  
MEASURING INSTRUMENTS  
. INDICATING INSTRUMENTS  
. **ATTITUDE INDICATORS**  
. GYRO HORIZONS  
NAVIGATION AIDS  
. NAVIGATION INSTRUMENTS  
. **ATTITUDE INDICATORS**  
. GYRO HORIZONS  
RT AIRCRAFT INSTRUMENTS  
CONTROL MOMENT GYROSCOPES  
FLIGHT CONTROL

**ATTITUDE STABILITY**

UF SATELLITE ATTITUDE DISTURBANCE  
GS DYNAMIC CHARACTERISTICS  
. DYNAMIC STABILITY  
. MOTION STABILITY  
. **ATTITUDE STABILITY**  
. DIRECTIONAL STABILITY  
. GYROSCOPIC STABILITY  
. LATERAL STABILITY  
. LONGITUDINAL STABILITY  
STABILITY

**ATTITUDE STABILITY-(CONT.)**

. DYNAMIC STABILITY  
. MOTION STABILITY  
. **ATTITUDE STABILITY**  
. DIRECTIONAL STABILITY  
. GYROSCOPIC STABILITY  
. LATERAL STABILITY  
. LONGITUDINAL STABILITY  
RT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
DISCOS (SATELLITE ATTITUDE CONTROL)  
HOVERING STABILITY  
LOW SPEED STABILITY  
SATELLITE ATTITUDE CONTROL  
SPACECRAFT MOTION  
SPACECRAFT STABILITY  
TUMBLING MOTION

**AUDIO EQUIPMENT**

GS **AUDIO EQUIPMENT**  
. EARPHONES  
. LOUDSPEAKERS  
. MICROPHONES  
RT ∞ EQUIPMENT  
MONAURAL SIGNALS

**AUDIO VISUAL EQUIPMENT**

USE TRAINING DEVICES  
VISUAL AIDS

**AUTOGYROS**

GS V/STOL AIRCRAFT  
. ROTARY WING AIRCRAFT  
. **AUTOGYROS**  
. AVIAN 2/180 AUTOGIRO

**AUTOMATED EN ROUTE ATC**

GS GROUND BASED CONTROL  
. AIR TRAFFIC CONTROL  
. **AUTOMATED EN ROUTE ATC**  
TRAFFIC CONTROL  
. AIR TRAFFIC CONTROL  
. **AUTOMATED EN ROUTE ATC**  
RT AIRCRAFT GUIDANCE  
APPROACH CONTROL  
AUTOMATED PILOT ADVISORY SYSTEM  
FLIGHT CONTROL  
GROUND-AIR-GROUND COMMUNICATION  
MICROWAVE LANDING SYSTEMS

**AUTOMATED PILOT ADVISORY SYSTEM**

RT AIR TRAFFIC CONTROL  
AUTOMATED EN ROUTE ATC  
AUTOMATIC TRAFFIC ADVISORY AND  
RESOLUTION  
∞ SYSTEMS

**AUTOMATIC CONTROL**

UF SELF REGULATING  
GS **AUTOMATIC CONTROL**  
. ADAPTIVE CONTROL  
. ACTIVE CONTROL  
. MACHINE LEARNING  
. MODEL REFERENCE ADAPTIVE CONTROL  
. SELF ADAPTIVE CONTROL SYSTEMS  
. AUTOMATIC FLIGHT CONTROL  
. AUTOMATIC LANDING CONTROL  
. AUTOMATIC FREQUENCY CONTROL  
. AUTOMATIC GAIN CONTROL  
. DYNAMIC CONTROL  
. FEEDBACK CONTROL  
. CASCADE CONTROL  
. FEEDFORWARD CONTROL  
. NUMERICAL CONTROL  
. OFF-ON CONTROL  
. OPTIMAL CONTROL  
. LINEAR QUADRATIC REGULATOR  
. LINEAR QUADRATIC GAUSSIAN CONTROL  
. TIME OPTIMAL CONTROL  
. PROPORTIONAL CONTROL  
. SELF ALIGNMENT  
. SEQUENTIAL CONTROL  
RT AIRCRAFT CONTROL  
ATTITUDE CONTROL  
∞ AUTOMATION  
COMBUSTION CONTROL  
∞ CONTROL  
CONTROL EQUIPMENT  
CONTROL SYSTEMS DESIGN  
CONTROLLERS  
DEPERSONALIZATION  
DIRECTIONAL CONTROL

**AUTOMATIC CONTROL-(CONT.)**

DYNAMIC CHARACTERISTICS  
ELECTRIC CONTROL  
ELECTRONIC AIRCRAFT  
ELECTRONIC CONTROL  
ENGINE CONTROL  
ENVIRONMENTAL CONTROL  
FLIGHT CONTROL  
GROUND BASED CONTROL  
GUIDANCE (MOTION)  
HELICOPTER CONTROL  
HYDRAULIC CONTROL  
∞ INSTRUMENTS  
JET CONTROL  
LANDING INSTRUMENTS  
LATERAL CONTROL  
LONGITUDINAL CONTROL  
MANUAL CONTROL  
MEASURING INSTRUMENTS  
MISSILE CONTROL  
NEGATIVE FEEDBACK  
PNEUMATIC CONTROL  
RADIO CONTROL  
REAL TIME OPERATION  
RECORDING INSTRUMENTS  
REENTRY GUIDANCE  
REGULATORS  
RELIEF VALVES  
REMOTE CONTROL  
ROBOTICS  
ROCKET ENGINE CONTROL  
SAMPLED DATA SYSTEMS  
SATELLITE ATTITUDE CONTROL  
SATELLITE CONTROL  
SATELLITE GUIDANCE  
SELF ABSORPTION  
SERVOCONTROL  
SERVOMECHANISMS  
SERVOMOTORS  
SPACECRAFT CONTROL  
SPACECRAFT GUIDANCE  
SPEED CONTROL  
STABILITY AUGMENTATION  
TEMPERATURE CONTROL  
TERMINAL CONFIGURED VEHICLE PROGRAM  
THERMOSTATS  
THRUST VECTOR CONTROL  
TRACKING PROBLEM  
TRANSFER FUNCTIONS  
TURBOJET ENGINE CONTROL

**AUTOMATIC CONTROL VALVES**

GS VALVES  
. **AUTOMATIC CONTROL VALVES**  
. PRESSURE REGULATORS  
. RELIEF VALVES  
RT ACTUATORS  
∞ CONTROL  
DAMPERS (VALVES)  
DYNAMIC CHARACTERISTICS  
FLUID AMPLIFIERS  
FLUID SWITCHING ELEMENTS  
GAS VALVES  
HYDRAULIC EQUIPMENT  
PNEUMATIC CONTROL  
REGULATORS  
SERVOMECHANISMS  
SOLENOID VALVES  
TEMPERATURE CONTROL

**AUTOMATIC FLIGHT CONTROL**

UF AFCS (CONTROL SYSTEM)  
GS AUTOMATIC CONTROL  
. **AUTOMATIC FLIGHT CONTROL**  
. AUTOMATIC LANDING CONTROL  
FLIGHT CONTROL  
. **AUTOMATIC FLIGHT CONTROL**  
. AUTOMATIC LANDING CONTROL  
RT AIRCRAFT CONTROL  
AIRCRAFT INSTRUMENTS  
AUTONOMOUS NAVIGATION  
∞ CONTROL  
DISTANCE MEASURING EQUIPMENT  
FLIGHT MANAGEMENT SYSTEMS  
HIGHLY MANEUVERABLE AIRCRAFT  
MISSILE CONTROL  
NAVIGATION  
NAVIGATION AIDS  
RADAR NAVIGATION  
RADIO NAVIGATION  
SOLAR COMPASSES  
TERMINAL CONFIGURED VEHICLE PROGRAM  
THRUST VECTOR CONTROL

## AUTOMATIC LANDING CONTROL

### AUTOMATIC LANDING CONTROL

GS AUTOMATIC CONTROL  
 . AUTOMATIC FLIGHT CONTROL  
 . . AUTOMATIC LANDING CONTROL  
 FLIGHT CONTROL  
 . AUTOMATIC FLIGHT CONTROL  
 . . AUTOMATIC LANDING CONTROL  
 LANDING AIDS  
 . INSTRUMENT LANDING SYSTEMS  
 . . AUTOMATIC LANDING CONTROL  
 RT AIRBORNE EQUIPMENT  
 AIRCRAFT EQUIPMENT  
 BLIND LANDING  
 DISTANCE MEASURING EQUIPMENT  
 FLIGHT MANAGEMENT SYSTEMS  
 MICROWAVE LANDING SYSTEMS  
 TERMINAL CONFIGURED VEHICLE  
 PROGRAM

### AUTOMATIC LIGHT AIRCRAFT READINESS MONITOR

USE ALARM PROJECT

### AUTOMATIC PILOTS

UF AUTOPILOTS  
 GS AIRCRAFT INSTRUMENTS  
 . AUTOMATIC PILOTS  
 FLIGHT INSTRUMENTS  
 . AUTOMATIC PILOTS  
 RT AIRCRAFT EQUIPMENT  
 FLIGHT CONTROL  
 GYROSCOPES  
 HIGHLY MANEUVERABLE AIRCRAFT  
 HOMING  
 LANDING AIDS  
 NAVIGATION AIDS  
 ∞ PILOTS  
 RADIO ALTIMETERS  
 SOLAR COMPASSES

### AUTOMATIC TEST EQUIPMENT

RT ∞ EQUIPMENT  
 MEASURING INSTRUMENTS  
 SELF TESTS  
 SNEAK CIRCUIT ANALYSIS  
 ∞ TEST EQUIPMENT

### AUTOMATIC TRAFFIC ADVISORY AND RESOLUTION

SN (AUTOMATIC TRAFFIC ADVISORY AND  
 RESOLUTION SERVICE)  
 UF ATARS  
 RT AUTOMATED PILOT ADVISORY SYSTEM  
 COLLISION AVOIDANCE  
 GROUND BASED CONTROL  
 NAVIGATION AIDS  
 RESOLUTION  
 ∞ SYSTEMS

### AUTOMATIC WEATHER STATIONS

GS STATIONS  
 . WEATHER STATIONS  
 . . AUTOMATIC WEATHER STATIONS  
 RT DATA ACQUISITION  
 DATA COLLECTION PLATFORMS  
 INSTRUMENT PACKAGES  
 METEOROLOGICAL SERVICES  
 OCEAN DATA ACQUISITIONS SYSTEMS  
 REMOTE SENSORS  
 WEATHER DATA RECORDERS

### AUTOMOBILE ENGINES

RT EXTERNAL COMBUSTION ENGINES  
 INTERNAL COMBUSTION ENGINES  
 PISTON ENGINES  
 ROTARY ENGINES  
 STIRLING ENGINES  
 TURBINE ENGINES  
 WANKEL ENGINES

### AUTOMOBILE FUELS

GS FUELS  
 . CHEMICAL FUELS  
 . . LIQUID FUELS  
 . . . AUTOMOBILE FUELS  
 RT AIRCRAFT FUELS  
 ANTIKNOCK ADDITIVES  
 DIESEL FUELS  
 GASOLINE  
 HYDROCARBON FUELS  
 INTERNAL COMBUSTION ENGINES  
 SYNTHANE

### AUTOPILOTS

USE AUTOMATIC PILOTS

### AUTOROTATION

UF WINDMILLING  
 GS GYRATION  
 . ROTATION  
 . . AUTOROTATION  
 RT ROTARY WING AIRCRAFT  
 ROTOCHUTES

### AV-8A AIRCRAFT

USE HARRIER AIRCRAFT

### AV-8B AIRCRAFT

USE HARRIER AIRCRAFT

### AVIAN 2/180 AUTOGIRO

GS RESEARCH AIRCRAFT  
 . AVIAN 2/180 AUTOGIRO  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . AUTOGYROS  
 . . . AVIAN 2/180 AUTOGIRO

### AVIATION

USE AERONAUTICS

### AVIATION METEOROLOGY

GS METEOROLOGY  
 . AVIATION METEOROLOGY  
 RT AIRCRAFT ACCIDENT INVESTIGATION  
 AIRCRAFT ACCIDENTS  
 AIRCRAFT HAZARDS  
 ATMOSPHERIC TURBULENCE  
 CIVIL AVIATION  
 CLEAR AIR TURBULENCE  
 FLIGHT CONDITIONS  
 FLIGHT HAZARDS  
 FLIGHT SAFETY  
 FOG  
 METEOROLOGICAL PARAMETERS  
 METEOROLOGICAL SERVICES  
 ∞ MILITARY AVIATION  
 NOWCASTING  
 NUMERICAL WEATHER FORECASTING  
 RUNWAY CONDITIONS  
 WIND SHEAR

### AVIATORS

USE AIRCRAFT PILOTS

### AVIONICS

RT ∞ AERONAUTICS  
 AIRBORNE EQUIPMENT  
 AIRCRAFT COMMUNICATION  
 AIRCRAFT EQUIPMENT  
 AIRCRAFT INSTRUMENTS  
 ASTRONICS  
 ∞ ASTRONAUTICS  
 ∞ CONTROL  
 ∞ ELECTRONICS  
 FLIGHT MANAGEMENT SYSTEMS  
 GUIDANCE (MOTION)  
 HEAD-UP DISPLAYS  
 MODULARITY  
 SELF TESTS  
 SINGLE EVENT UPSETS  
 SYSTEMS INTEGRATION  
 ∞ TEST EQUIPMENT  
 VIDEO LANDMARK ACQUISITION AND  
 TRACKING

### AVRO WHITWORTH HS-748 AIRCRAFT

USE HS-748 AIRCRAFT

### AVRO 698 AIRCRAFT

USE VULCAN AIRCRAFT

### AVRO 707 AIRCRAFT

GS HAWKER SIDDELEY AIRCRAFT  
 . AVRO 707 AIRCRAFT  
 JET AIRCRAFT  
 . AVRO 707 AIRCRAFT  
 MONOPLANES  
 . AVRO 707 AIRCRAFT  
 RESEARCH AIRCRAFT  
 . AVRO 707 AIRCRAFT  
 TAILLESS AIRCRAFT  
 . AVRO 707 AIRCRAFT

RT ∞ AIRCRAFT  
 DELTA WINGS  
 VULCAN AIRCRAFT

### AWACS AIRCRAFT

UF AIRBORNE WARNING AND CONTROL  
 SYSTEM

### AWACS AIRCRAFT-(CONT.)

GS AWACS AIRCRAFT  
 . E-2 AIRCRAFT  
 . E-3A AIRCRAFT  
 . E-4A AIRCRAFT  
 RT ∞ AIRCRAFT  
 BOEING AIRCRAFT  
 COMMAND AND CONTROL  
 EARLY WARNING SYSTEMS  
 GRUMMAN AIRCRAFT  
 ∞ MILITARY AIRCRAFT  
 MILITARY TECHNOLOGY

### AXES OF ROTATION

GS AXES (REFERENCE LINES)  
 . AXES OF ROTATION  
 . . EARTH AXIS  
 RT BODIES OF REVOLUTION  
 ROTATING BODIES  
 ROTATION  
 SHAFTS (MACHINE ELEMENTS)  
 SYMMETRICAL BODIES

### AXIAL COMPRESSORS

USE TURBOCOMPRESSORS

### AXIAL FLOW

GS FLUID FLOW  
 . AXIAL FLOW  
 RT ANNULAR FLOW  
 AXISYMMETRIC FLOW  
 COAXIAL FLOW  
 COAXIAL NOZZLES  
 COUNTERFLOW  
 DISCHARGE COEFFICIENT  
 FLOW GEOMETRY  
 ONE DIMENSIONAL FLOW  
 RADIAL FLOW  
 THREE DIMENSIONAL FLOW  
 TWO DIMENSIONAL FLOW

### AXIAL FLOW COMPRESSORS

USE TURBOCOMPRESSORS

### AXIAL FLOW PUMPS

GS PUMPS  
 . AXIAL FLOW PUMPS  
 . . TURBINE PUMPS  
 RT CENTRIFUGAL PUMPS  
 FUEL PUMPS

### AXIAL FLOW TURBINES

GS TURBOMACHINERY  
 . TURBINES  
 . . AXIAL FLOW TURBINES  
 RT GAS TURBINE ENGINES  
 GAS TURBINES  
 STEAM TURBINES

### AXISYMMETRIC BODIES

GS SYMMETRICAL BODIES  
 . AXISYMMETRIC BODIES  
 RT BLUNT BODIES  
 ∞ BODIES  
 BODIES OF REVOLUTION  
 CONICAL BODIES  
 DUCTED BODIES  
 LENTICULAR BODIES  
 MISSILE BODIES  
 SLENDER BODIES  
 SLENDER CONES  
 STREAMLINED BODIES

### AXISYMMETRIC FLOW

GS FLUID FLOW  
 . AXISYMMETRIC FLOW  
 . . ANNULAR FLOW  
 . . KARMAN-BODEWADT FLOW  
 RT AXIAL FLOW  
 COAXIAL FLOW  
 CONICAL FLOW  
 COUETTE FLOW  
 CROCCO METHOD  
 CYLINDRICAL WAVES  
 FLOW GEOMETRY  
 HELICAL FLOW  
 THREE DIMENSIONAL BOUNDARY LAYER

### AXLES

USE SHAFTS (MACHINE ELEMENTS)

### AZIMUTH

UF SOLAR AZIMUTH  
 RT ALTITUDE

**AZIMUTH-(CONT.)**

ANGLES (GEOMETRY)  
 ASTRONOMICAL COORDINATES  
 BEARING (DIRECTION)  
 CELESTIAL REFERENCE SYSTEMS  
 ∞ DIRECTION  
 ELEVATION ANGLE  
 LOOK ANGLES (TRACKING)  
 NAVIGATION  
 ∞ ORIENTATION  
 POSITION (LOCATION)

**A2F AIRCRAFT**

USE A-6 AIRCRAFT

**A3D AIRCRAFT**

USE A-3 AIRCRAFT

**A3J AIRCRAFT**

USE A-5 AIRCRAFT

**A4D AIRCRAFT**

USE A-4 AIRCRAFT

**B****B-A-W DEVICES**

USE BULK ACOUSTIC WAVE DEVICES

**B-1 AIRCRAFT**

GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-1 AIRCRAFT**  
 NORTH AMERICAN AIRCRAFT  
 . **B-1 AIRCRAFT**  
 RT ∞ AIRCRAFT  
 BOMBING EQUIPMENT  
 BOMBS (ORDNANCE)  
 COMBAT  
 JET AIRCRAFT  
 ∞ MILITARY AIRCRAFT  
 MULTIENGINE VEHICLES  
 WARFARE  
 ∞ WINGED VEHICLES

**B-26 AIRCRAFT**

UF INVADER AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-26 AIRCRAFT**  
 MARTIN AIRCRAFT  
 . **B-26 AIRCRAFT**  
 MONOPLANES  
 . **B-26 AIRCRAFT**  
 RT ∞ AIRCRAFT

**B-47 AIRCRAFT**

UF RB-47 AIRCRAFT  
 STRATOJET AIRCRAFT  
 XB-47 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-47 AIRCRAFT**  
 BOEING AIRCRAFT  
 . **B-47 AIRCRAFT**  
 JET AIRCRAFT  
 . **B-47 AIRCRAFT**  
 MONOPLANES  
 . **B-47 AIRCRAFT**  
 RT ∞ AIRCRAFT

**B-50 AIRCRAFT**

GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-50 AIRCRAFT**  
 BOEING AIRCRAFT  
 . **B-50 AIRCRAFT**  
 JET AIRCRAFT  
 . **B-50 AIRCRAFT**  
 MONOPLANES  
 . **B-50 AIRCRAFT**  
 RT ∞ AIRCRAFT

**B-52 AIRCRAFT**

UF STRATOFORTRESS AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-52 AIRCRAFT**  
 BOEING AIRCRAFT  
 . **B-52 AIRCRAFT**  
 JET AIRCRAFT

**B-52 AIRCRAFT-(CONT.)**

. **B-52 AIRCRAFT**  
 MONOPLANES  
 . **B-52 AIRCRAFT**  
 RT ∞ AIRCRAFT  
 PEGASUS AIR-LAUNCHED BOOSTER  
 TURBOFAN ENGINES

**B-57 AIRCRAFT**

UF CANBERRA BOMBER  
 RB-57 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-57 AIRCRAFT**  
 JET AIRCRAFT  
 . **B-57 AIRCRAFT**  
 MARTIN AIRCRAFT  
 . **B-57 AIRCRAFT**  
 MONOPLANES  
 . **B-57 AIRCRAFT**  
 RT ∞ AIRCRAFT  
 CANBERRA AIRCRAFT

**B-58 AIRCRAFT**

UF HUSTLER AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-58 AIRCRAFT**  
 GENERAL DYNAMICS AIRCRAFT  
 . **B-58 AIRCRAFT**  
 JET AIRCRAFT  
 . **B-58 AIRCRAFT**  
 MONOPLANES  
 . **B-58 AIRCRAFT**  
 SUPERSONIC AIRCRAFT  
 . **B-58 AIRCRAFT**  
 TAILLESS AIRCRAFT  
 . **B-58 AIRCRAFT**  
 RT ∞ AIRCRAFT

**B-66 AIRCRAFT**

UF DESTROYER AIRCRAFT  
 RB-66 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-66 AIRCRAFT**  
 JET AIRCRAFT  
 . **B-66 AIRCRAFT**  
 MCDONNELL DOUGLAS AIRCRAFT  
 . DOUGLAS AIRCRAFT  
 . **B-66 AIRCRAFT**  
 MONOPLANES  
 . **B-66 AIRCRAFT**  
 RT ∞ AIRCRAFT

**B-70 AIRCRAFT**

UF VALKYRIE AIRCRAFT  
 XB-70 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . BOMBER AIRCRAFT  
 . **B-70 AIRCRAFT**  
 JET AIRCRAFT  
 . **B-70 AIRCRAFT**  
 MONOPLANES  
 . **B-70 AIRCRAFT**  
 NORTH AMERICAN AIRCRAFT  
 . **B-70 AIRCRAFT**  
 RESEARCH AIRCRAFT  
 . **B-70 AIRCRAFT**  
 SUPERSONIC AIRCRAFT  
 . **B-70 AIRCRAFT**  
 RT ∞ AIRCRAFT

**BAC AIRCRAFT**

UF BRITISH AIRCRAFT CORP AIRCRAFT  
 GS **BAC AIRCRAFT**  
 . BAC 111 AIRCRAFT  
 . CANBERRA AIRCRAFT  
 . H-126 AIRCRAFT  
 . JET PROVOST AIRCRAFT  
 . SCIMITAR AIRCRAFT  
 . TSR-2 AIRCRAFT  
 . VALIANT AIRCRAFT  
 . VC-10 AIRCRAFT  
 . VISCOUNT AIRCRAFT  
 RT ∞ AIRCRAFT

**BAC TSR 2 AIRCRAFT**

USE TSR-2 AIRCRAFT

**BAC 111 AIRCRAFT**

GS BAC AIRCRAFT  
 . **BAC 111 AIRCRAFT**  
 JET AIRCRAFT  
 . TURBOFAN AIRCRAFT

**BAC 111 AIRCRAFT-(CONT.)**

. **BAC 111 AIRCRAFT**  
 MONOPLANES  
 . **BAC 111 AIRCRAFT**  
 PASSENGER AIRCRAFT  
 . **BAC 111 AIRCRAFT**  
 TRANSPORT AIRCRAFT  
 . **BAC 111 AIRCRAFT**  
 RT ∞ AIRCRAFT

**BACKFIRE**

RT COMBUSTION  
 DEFLAGRATION  
 EXPLOSIONS  
 FIRES  
 FLAME DEFLECTORS  
 FLAME PROPAGATION  
 FLASHBACK

**BACKGROUND NOISE**

RT CHANNEL NOISE  
 COSMIC NOISE  
 ELASTIC WAVES  
 ELECTROMAGNETIC NOISE  
 IONOSPHERIC NOISE  
 ∞ NOISE  
 NOISE (SOUND)  
 NOISE MEASUREMENT  
 NOISE SPECTRA  
 NOISE THRESHOLD  
 ∞ RADIATION  
 RANDOM NOISE  
 ∞ RAYS  
 SIGNAL TO NOISE RATIOS  
 SQUELCH CIRCUITS

**BACKWARD DIFFERENCING**

RT DIFFERENTIAL EQUATIONS  
 NUMERICAL STABILITY  
 PROBLEM SOLVING

**BACKWARD FACING STEPS**

UF REARWARD FACING STEPS  
 RT BOUNDARY LAYER FLOW  
 FLOW GEOMETRY  
 FLUID BOUNDARIES  
 REATTACHED FLOW  
 RECIRCULATIVE FLUID FLOW  
 STAIRSTEPS  
 ∞ STEPS

**BACKWASH**

SN (EXCLUDES PROCESSES OF  
 BACKWASHING)  
 UF SIDEWASH  
 RT BOUNDARY LAYER STABILITY  
 DOWNWASH  
 SLIPSTREAMS  
 STROUHAL NUMBER  
 TURBULENCE  
 WAKES

**BAGGAGE**

GS CARGO  
 . **BAGGAGE**  
 RT AIR CARGO  
 BAGS  
 GROUND HANDLING

**BAGS**

GS **BAGS**  
 . AIR BAG RESTRAINT DEVICES  
 . GAS BAGS  
 RT BAGGAGE  
 ∞ CONTAINERS  
 PACKAGES

**BAILOUT**

RT AIR DROP OPERATIONS  
 EJECTION  
 EJECTION INJURIES  
 EJECTION SEATS  
 EJECTION TRAINING  
 ESCAPE (ABANDONMENT)  
 ESCAPE SYSTEMS  
 FLYING EJECTION SEATS  
 JETTISON SYSTEMS  
 JETTISONING  
 PARACHUTE DESCENT

**BALANCE**

RT AERODYNAMIC BALANCE  
 COMPENSATORS  
 ∞ EQUILIBRIUM

## BALLAST

### BALANCE-(CONT.)

HEAT BALANCE  
 ∞ MASS BALANCE  
 MASS DISTRIBUTION  
 MATERIAL BALANCE  
 WEIGHT INDICATORS

### ∞ BALLAST

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT BALLAST (MASS)  
 BALLASTS (IMPEDANCES)

### BALLISTIC MISSILE DECOYS

GS COUNTERMEASURES  
 . BALLISTIC MISSILE DECOYS  
 DECOYS  
 . BALLISTIC MISSILE DECOYS  
 RT MISSILE DEFENSE  
 REENTRY DECOYS

### BALLISTIC MISSILES

SN (GUIDED ONLY DURING INITIAL  
 POWERED PHASE)  
 GS MISSILES  
 . BALLISTIC MISSILES  
 . FIELD ARMY BALLISTIC MISSILES  
 . SUBROC MISSILE  
 . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . ATLAS ICBM  
 . . . ATLAS D ICBM  
 . . . ATLAS E ICBM  
 . . . ATLAS F ICBM  
 . . . MINUTEMAN ICBM  
 . . . TITAN ICBM  
 . . . TITAN 1 ICBM  
 . . . TITAN 2 ICBM  
 . . . INTERMEDIATE RANGE BALLISTIC  
 MISSILES  
 . . . BLUE STREAK MISSILE  
 . . . JUPITER MISSILE  
 . . . POLARIS MISSILES  
 . . . POLARIS A1 MISSILE  
 . . . POLARIS A2 MISSILE  
 . . . POLARIS A3 MISSILE  
 . . . PERSHING MISSILE  
 . . . POSEIDON MISSILES  
 . . . SHORT RANGE BALLISTIC MISSILES  
 . . . SKYBOLT MISSILE  
 . . . V-2 MISSILE  
 RT ANTIMISSILE MISSILES  
 SAFEGUARD SYSTEM  
 SURFACE TO SURFACE MISSILES

### BALLISTIC RANGES

GS RANGES (FACILITIES)  
 . TEST RANGES  
 . BALLISTIC RANGES  
 TEST FACILITIES  
 . TEST RANGES  
 . BALLISTIC RANGES  
 RT DOWNRANGE  
 HYDROBALLISTICS  
 MISSILE RANGES

### BALLISTIC TRAJECTORIES

GS TRAJECTORIES  
 . BALLISTIC TRAJECTORIES  
 RT ASCENT TRAJECTORIES  
 BALLISTICS  
 COASTING FLIGHT  
 DESCENT TRAJECTORIES  
 DOWNRANGE  
 FREE FALL  
 IMPACT PREDICTION  
 MIDCOURSE TRAJECTORIES  
 MISSILE TRAJECTORIES  
 PARABOLIC FLIGHT

### ∞ BALLISTIC VEHICLES

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 UF NONLIFTING VEHICLES  
 RT REENTRY VEHICLES  
 ROCKET VEHICLES  
 TEST VEHICLES  
 ∞ VEHICLES  
 WEAPONS

### BALLOON FLIGHT

RT ∞ FLIGHT  
 METEOROLOGICAL FLIGHT

### BALLOON FLIGHT-(CONT.)

VERTICAL FLIGHT

### BALLOON SOUNDING

GS SOUNDING  
 . BALLOON SOUNDING  
 RT ATMOSPHERIC SOUNDING  
 RADIOSONDES  
 SUPERPRESSURE BALLOONS

### BALLOON-BORNE INSTRUMENTS

GS MEASURING INSTRUMENTS  
 . BALLOON-BORNE INSTRUMENTS  
 RT AIRBORNE EQUIPMENT  
 BALLOONS  
 HIGH ALTITUDE BALLOONS  
 METEOROLOGICAL INSTRUMENTS  
 RADIOSONDES  
 TELESCOPES

### BALLOONS

GS EXPANDABLE STRUCTURES  
 . INFLATABLE STRUCTURES  
 . . . BALLOONS  
 . . . HIGH ALTITUDE BALLOONS  
 . . . JIMSPHERE BALLOONS  
 . . . SKYHOOK BALLOONS  
 . . . SUPERPRESSURE BALLOONS  
 . . . METEOROLOGICAL BALLOONS  
 . . . JIMSPHERE BALLOONS  
 . . . ROBIN BALLOONS  
 . . . MICROBALLOONS  
 . . . TETHERED BALLOONS  
 RT ∞ AIRCRAFT  
 AIRSHIPS  
 ASCENT  
 BALLOON-BORNE INSTRUMENTS  
 BALLUTES  
 FOLDING STRUCTURES  
 GAS BAGS  
 GONDOLAS  
 OBSERVATION AIRCRAFT  
 PARAVULCOONS  
 PILOTLESS AIRCRAFT  
 STRATOSCOPE TELESCOPES

### BALLUTES

GS BRAKES (FOR ARRESTING MOTION)  
 . AERODYNAMIC BRAKES  
 . . . BALLUTES  
 DRAG DEVICES  
 . AERODYNAMIC BRAKES  
 . . . BALLUTES  
 EXPANDABLE STRUCTURES  
 . INFLATABLE STRUCTURES  
 . . . BALLUTES  
 RT AIR DROP OPERATIONS  
 AIRCRAFT BRAKES  
 BALLOONS  
 DRAG CHUTES  
 FOLDING STRUCTURES  
 PARACHUTES

### BANKING FLIGHT

USE TURNING FLIGHT

### BARDEEN APPROXIMATION

USE BARRIER LAYERS  
 ELECTRICAL PROPERTIES  
 SURFACE PROPERTIES

### BAROCLINIC WAVES

GS ELASTIC WAVES  
 . CAPILLARY WAVES  
 . . . GRAVITY WAVES  
 . . . BAROCLINIC WAVES  
 SURFACE WAVES  
 . CAPILLARY WAVES  
 . . . GRAVITY WAVES  
 . . . BAROCLINIC WAVES  
 RT BAROCLINIC INSTABILITY  
 BAROCLINITY  
 BAROTROPIC FLOW  
 CYCLONES  
 DENSITY DISTRIBUTION  
 GEOSTROPHIC WIND  
 RADIATION PRESSURE  
 STRATIFIED FLOW  
 WAVE AMPLIFICATION  
 ∞ WAVES  
 ZONAL FLOW (METEOROLOGY)

### BAROCLINITY

RT BAROCLINIC INSTABILITY  
 BAROCLINIC WAVES

### BAROCLINITY-(CONT.)

BAROTROPIC FLOW  
 BAROTROPISM  
 ∞ ISOBARS  
 METEOROLOGICAL SOLENOIDS  
 STRATIFIED FLOW

### BAROTROPIC FLOW

GS FLUID FLOW  
 . BAROTROPIC FLOW  
 RT AIR CURRENTS  
 AIR FLOW  
 BAROCLINIC WAVES  
 BAROCLINITY  
 BAROTROPISM  
 FLOW CHARACTERISTICS  
 LEE WAVES  
 PLANETARY WAVES  
 RAYLEIGH WAVES  
 ROSSBY REGIMES  
 SEA BREEZE  
 VISCOUS FLOW  
 WIND (METEOROLOGY)  
 WIND SHEAR

### BAROTROPISM

GS BAROTROPISM  
 . PLANETARY WAVES  
 RT BAROCLINITY  
 BAROTROPIC FLOW  
 ∞ ISOBARS

### ∞ BARRAGES

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT ARTILLERY FIRE  
 DAMS

### ∞ BARRELS

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT BARRELS (CONTAINERS)  
 ∞ DRUMS  
 GUN LAUNCHERS

### BARRICADES

USE BARRIERS

### ∞ BARRIERS

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 UF BARRICADES  
 OBSTACLES  
 RT ABORT APPARATUS  
 ACOUSTIC VELOCITY  
 ARRESTING GEAR  
 BAFFLES  
 BARRIER LAYERS  
 BARRIERS (LANDFORMS)  
 BARRITT DIODES  
 BLOOD-BRAIN BARRIER  
 BULKHEADS  
 CHAINS  
 CLOSURES  
 CONSTRUCTIONS  
 CURTAINS  
 DAMS  
 DIVIDERS  
 ELECTRODE FILM BARRIERS  
 ENCLOSURES  
 FENCES (BARRIERS)  
 GATES (OPENINGS)  
 GUARDS (SHIELDS)  
 MBM JUNCTIONS  
 SAFETY DEVICES  
 SCHOTTKY DIODES  
 SEALS (STOPPERS)  
 SHIELDING  
 THERMAL BARRIERS (PLASMA  
 CONTROL)  
 VAPOR BARRIER CLOTHING  
 WALLS  
 WIND (METEOROLOGY)  
 WINDOWS (APERTURES)

### BASE FLOW

GS FLUID FLOW  
 . BASE FLOW  
 RT HEAD FLOW  
 WAKES



**BASE HEATING**

GS HEATING  
 . **BASE HEATING**  
 RT AFTERBODIES  
 CONVECTION  
 EXHAUST NOZZLES  
 JET EXHAUST  
 JET IMPINGEMENT  
 ∞ RADIATION  
 ROCKET EXHAUST

**BASE PRESSURE**

GS PRESSURE  
 . **BASE PRESSURE**  
 RT AERODYNAMIC DRAG

**BASEMENTS**

RT BUILDINGS  
 FLOORS  
 FOUNDATIONS

**∞ BASES**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT BASES (CHEMICAL)  
 DATA BASES  
 FOUNDATIONS  
 INORGANIC COMPOUNDS  
 ION CONCENTRATION  
 LUNAR BASES  
 SPACE BASES  
 STATIONS

**BASKETS**

RT ∞ CONTAINERS  
 GONDOLAS

**∞ BAYS**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT BAYS (STRUCTURAL UNITS)  
 BAYS (TOPOGRAPHIC FEATURES)

**BAYS (STRUCTURAL UNITS)**

RT AIRCRAFT COMPARTMENTS  
 AIRFRAMES  
 ∞ BAYS  
 COMPARTMENTS  
 FUSELAGES  
 HULLS (STRUCTURES)  
 SHELLS (STRUCTURAL FORMS)

**BE-3 ENGINE**

GS ENGINES  
 . ROCKET ENGINES  
 . RETROCKET ENGINES  
 . **BE-3 ENGINE**  
 RT ATHENA ROCKET VEHICLE  
 RANGER LUNAR LANDING VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES

**BEACONS**

GS NAVIGATION AIDS  
 . **BEACONS**  
 . . AIRPORT BEACONS  
 . . . DISCRETE ADDRESS BEACON  
 SYSTEM  
 . . RADAR BEACONS  
 . . . DISCRETE ADDRESS BEACON  
 SYSTEM  
 . . RADIO BEACONS  
 . . . OMNIDIRECTIONAL RADIO RANGES  
 . . . . SELF CALIBRATING OMNIRANGE  
 . . RADIO DIRECTION FINDERS  
 RT AIRCRAFT LIGHTS  
 BUOYS  
 COMPASSES  
 HOMING  
 HOMING DEVICES  
 INSTRUMENT FLIGHT RULES  
 ∞ MARKERS  
 POSITION INDICATORS  
 PROJECTORS  
 SEARCHLIGHTS  
 ∞ SIGNALS  
 SOLAR COMPASSES  
 VISUAL SIGNALS

**BEAGLE AIRCRAFT**

RT ∞ AIRCRAFT

**∞ BEARING**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT BEARING (DIRECTION)  
 BEARINGS  
 INTERNAL COMBUSTION ENGINES

**BEARING (DIRECTION)**

RT ALIGNMENT  
 AZIMUTH  
 ∞ BEARING  
 ∞ DIRECTION  
 DIRECTION FINDING  
 EXPOSURE  
 FIELD OF VIEW  
 INSTRUMENT ORIENTATION  
 ∞ ORIENTATION  
 POSITION (LOCATION)  
 SOUND LOCALIZATION  
 ∞ SPACE ORIENTATION

**BEARINGLESS ROTORS**

GS AIRFOILS  
 . WINGS  
 . . ROTARY WINGS  
 . . . LIFTING ROTORS  
 . . . . **BEARINGLESS ROTORS**  
 ROTATING BODIES  
 . ROTORS  
 . . ROTARY WINGS  
 . . . LIFTING ROTORS  
 . . . . **BEARINGLESS ROTORS**  
 RT HINGES  
 RIGID ROTORS

**BEDS**

RT BEDS (PROCESS ENGINEERING)  
 COUCHES

**BEECH AIRCRAFT**

USE BEECHCRAFT AIRCRAFT

**BEECH C-33 AIRCRAFT**

USE C-33 AIRCRAFT

**BEECH S-35 AIRCRAFT**

USE C-35 AIRCRAFT

**BEECH 99 AIRCRAFT**

GS BEECHCRAFT AIRCRAFT  
 . **BEECH 99 AIRCRAFT**  
 . . BEECHCRAFT 18 AIRCRAFT  
 . . C-33 AIRCRAFT  
 . . C-35 AIRCRAFT  
 LIGHT AIRCRAFT  
 . **BEECH 99 AIRCRAFT**  
 . . BEECHCRAFT 18 AIRCRAFT  
 . . C-33 AIRCRAFT  
 . . C-35 AIRCRAFT  
 RT ∞ AIRCRAFT  
 ∞ LOW WING AIRCRAFT

**BEECHCRAFT AIRCRAFT**

UF BEECH AIRCRAFT  
 GS **BEECHCRAFT AIRCRAFT**  
 . BEECH 99 AIRCRAFT  
 . BEECHCRAFT 18 AIRCRAFT  
 . C-33 AIRCRAFT  
 . C-35 AIRCRAFT  
 RT ∞ AIRCRAFT

**BEECHCRAFT 18 AIRCRAFT**

GS BEECHCRAFT AIRCRAFT  
 . BEECH 99 AIRCRAFT  
 . **BEECHCRAFT 18 AIRCRAFT**  
 GENERAL AVIATION AIRCRAFT  
 . **BEECHCRAFT 18 AIRCRAFT**  
 LIGHT AIRCRAFT  
 . BEECH 99 AIRCRAFT  
 . **BEECHCRAFT 18 AIRCRAFT**  
 MONOPLANES  
 . **BEECHCRAFT 18 AIRCRAFT**  
 RT ∞ AIRCRAFT

**BELFAST AIRCRAFT**

USE SC-5 AIRCRAFT

**BELL AIRCRAFT**

GS **BELL AIRCRAFT**  
 . AH-63 HELICOPTER  
 . BELL 214A HELICOPTER  
 . OH-4 HELICOPTER  
 . OH-13 HELICOPTER

**BELL AIRCRAFT—(CONT.)**

. UH-1 HELICOPTER  
 . V-22 AIRCRAFT  
 . X-1 AIRCRAFT  
 . X-2 AIRCRAFT  
 . X-5 AIRCRAFT  
 . X-14 AIRCRAFT  
 . X-22 AIRCRAFT  
 . XV-3 AIRCRAFT  
 . XV-15 AIRCRAFT  
 RT ∞ AIRCRAFT

**BELL 214A HELICOPTER**

GS BELL AIRCRAFT  
 . **BELL 214A HELICOPTER**  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . **BELL 214A HELICOPTER**  
 RT ∞ AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT

**BELTRAMI FLOW**

GS FLUID FLOW  
 . **BELTRAMI FLOW**  
 RT INCOMPRESSIBLE FLOW  
 STEADY FLOW  
 VORTICITY

**BENARD CELLS**

GS CONVECTION  
 . FREE CONVECTION  
 . . RAYLEIGH-BENARD CONVECTION  
 . . . **BENARD CELLS**  
 FLUID FLOW  
 . CONVECTIVE FLOW  
 . . RAYLEIGH-BENARD CONVECTION  
 . . . **BENARD CELLS**  
 RT CONVECTION CURRENTS  
 RAYLEIGH NUMBER  
 SOLAR GRANULATION

**BENCHES**

USE SEATS

**BERENICE ROCKET VEHICLE**

GS ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . **BERENICE ROCKET VEHICLE**  
 RT HYPERSONIC REENTRY  
 SOLID PROPELLANT ROCKET ENGINES

**BERNOULLI EQUATION**

USE BERNOULLI THEOREM

**BERNOULLI THEOREM**

UF BERNOULLI EQUATION  
 GS THEOREMS  
 . **BERNOULLI THEOREM**  
 RT CONSERVATION EQUATIONS  
 ∞ EQUATIONS  
 FLOW EQUATIONS  
 FLUID FLOW  
 ISENTROPIC PROCESSES  
 LINEARIZATION  
 MAGNUS EFFECT  
 PANEL METHOD (FLUID DYNAMICS)

**∞ BICYCLE**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT LANDING GEAR  
 SURFACE VEHICLES

**BIG SHOT PROJECT**

GS PROGRAMS  
 . PROJECTS  
 . . **BIG SHOT PROJECT**

**BINARY FLUIDS**

GS BINARY SYSTEMS (MATERIALS)  
 . BINARY MIXTURES  
 . . **BINARY FLUIDS**  
 MIXTURES  
 . BINARY MIXTURES  
 . . **BINARY FLUIDS**  
 RT ∞ FLUIDS  
 GAS MIXTURES  
 KINETIC THEORY  
 LENNARD-JONES GAS  
 TRANSPORT PROPERTIES

## BIPLANES

### BIPLANES

RT ∞ AIRCRAFT  
 . DUAL WING CONFIGURATIONS  
 . LIGHT AIRCRAFT  
 . MONOPLANES  
 . TANDEM WING AIRCRAFT  
 . UTILITY AIRCRAFT

### BIRD-AIRCRAFT COLLISIONS

GS ACCIDENTS  
 . BIRD-AIRCRAFT COLLISIONS  
 . AIRCRAFT ACCIDENTS  
 . BIRD-AIRCRAFT COLLISIONS  
 . COLLISIONS  
 . MIDAIR COLLISIONS  
 . BIRD-AIRCRAFT COLLISIONS  
 RT ∞ AIRCRAFT  
 . AIRCRAFT HAZARDS  
 . BIRDS  
 . FLIGHT HAZARDS

### BLACK AND WHITE PHOTOGRAPHY

GS IMAGERY  
 . BLACK AND WHITE PHOTOGRAPHY  
 . PHOTOGRAPHY  
 . BLACK AND WHITE PHOTOGRAPHY  
 RT ALL SKY PHOTOGRAPHY  
 . ASTRONOMICAL PHOTOGRAPHY  
 . AUTORADIOGRAPHY  
 . CHRONOPHOTOGRAPHY  
 . CINEMATOGRAPHY  
 . CLOUD PHOTOGRAPHY  
 . COLOR PHOTOGRAPHY  
 . ELECTRO-OPTICAL PHOTOGRAPHY  
 . ELECTRON PHOTOGRAPHY  
 . FRAME PHOTOGRAPHY  
 . INFRARED PHOTOGRAPHY  
 . LUNAR PHOTOGRAPHY  
 . PHOTOMICROGRAPHY  
 . PHOTORECONNAISSANCE  
 . RADAR PHOTOGRAPHY  
 . ROCKET-BORNE PHOTOGRAPHY  
 . SATELLITE-BORNE PHOTOGRAPHY  
 . SCHLIEREN PHOTOGRAPHY  
 . SHADOWGRAPH PHOTOGRAPHY  
 . SPACEBORNE PHOTOGRAPHY  
 . SPECTROHELIOGRAPHS  
 . SPECTROPHOTOGRAPHY  
 . STEREOPHOTOGRAPHY  
 . ULTRAVIOLET PHOTOMETRY  
 . UROGRAPHY

### BLACK ARROW LAUNCH VEHICLE

USE BLACK KNIGHT ROCKET VEHICLE

### BLACK BRANT SOUNDING ROCKETS

GS ROCKET VEHICLES  
 . SINGLE STAGE ROCKET VEHICLES  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 1 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 2 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 3 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 4 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 5 SOUNDING  
 . . . ROCKET  
 . SOUNDING ROCKETS  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 1 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 2 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 3 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 4 SOUNDING  
 . . . ROCKET  
 . . . BLACK BRANT 5 SOUNDING  
 . . . ROCKET  
 RT SOLID PROPELLANT ROCKET ENGINES

### BLACK BRANT 1 SOUNDING ROCKET

GS ROCKET VEHICLES  
 . SINGLE STAGE ROCKET VEHICLES  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 1 SOUNDING  
 . . . ROCKET  
 . SOUNDING ROCKETS  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 1 SOUNDING  
 . . . ROCKET  
 RT SOLID PROPELLANT ROCKET ENGINES

### BLACK BRANT 2 SOUNDING ROCKET

GS ROCKET VEHICLES  
 . SINGLE STAGE ROCKET VEHICLES  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 2 SOUNDING  
 . . . ROCKET  
 . SOUNDING ROCKETS  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 2 SOUNDING  
 . . . ROCKET  
 RT SOLID PROPELLANT ROCKET ENGINES

### BLACK BRANT 3 SOUNDING ROCKET

GS ROCKET VEHICLES  
 . SINGLE STAGE ROCKET VEHICLES  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 3 SOUNDING  
 . . . ROCKET  
 . SOUNDING ROCKETS  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 3 SOUNDING  
 . . . ROCKET  
 RT SOLID PROPELLANT ROCKET ENGINES

### BLACK BRANT 4 SOUNDING ROCKET

GS ROCKET VEHICLES  
 . SINGLE STAGE ROCKET VEHICLES  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 4 SOUNDING  
 . . . ROCKET  
 . SOUNDING ROCKETS  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 4 SOUNDING  
 . . . ROCKET  
 RT SOLID PROPELLANT ROCKET ENGINES

### BLACK BRANT 5 SOUNDING ROCKET

GS ROCKET VEHICLES  
 . SINGLE STAGE ROCKET VEHICLES  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 5 SOUNDING  
 . . . ROCKET  
 . SOUNDING ROCKETS  
 . . . BLACK BRANT SOUNDING ROCKETS  
 . . . BLACK BRANT 5 SOUNDING  
 . . . ROCKET  
 RT SOLID PROPELLANT ROCKET ENGINES

### BLACK HAWK ASSAULT HELICOPTER

USE H-60 HELICOPTER

### BLACK KNIGHT ROCKET VEHICLE

UF BLACK ARROW LAUNCH VEHICLE  
 GS ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . . BLACK KNIGHT ROCKET VEHICLE  
 . . . SINGLE STAGE ROCKET VEHICLES  
 . . . BLACK KNIGHT ROCKET VEHICLE  
 RT LIQUID PROPELLANT ROCKET ENGINES

### BLACKBIRD AIRCRAFT

USE SR-71 AIRCRAFT

### BLACKBURN B-103 AIRCRAFT

USE BUCCANEER AIRCRAFT

### BLADE SLAP

USE BLADE-VORTEX INTERACTION

### BLADE SLAP NOISE

UF HELICOPTER IMPULSIVE NOISE  
 GS ELASTIC WAVES  
 . SOUND WAVES  
 . . . NOISE (SOUND)  
 . . . AERODYNAMIC NOISE  
 . . . . . BLADE SLAP NOISE  
 . . . AIRCRAFT NOISE  
 . . . . . BLADE SLAP NOISE  
 RT BLADE TIPS  
 . BLADE-VORTEX INTERACTION  
 . HELICOPTERS  
 . PROPELLER NOISE

### BLADE TIPS

GS TIPS  
 . BLADE TIPS  
 RT AIRFOIL PROFILES  
 . BLADE SLAP NOISE  
 . BLADE-VORTEX INTERACTION  
 . PROPELLER BLADES  
 . ROTARY WINGS  
 . ROTOR BLADES (TURBOMACHINERY)  
 . WING TIPS

### BLADE-VORTEX INTERACTION

UF BLADE SLAP  
 . VORTEX-BLADE INTERACTION  
 RT AIRFOILS  
 . BLADE SLAP NOISE  
 . BLADE TIPS  
 . HELICOPTERS  
 ∞ INTERACTIONS  
 . ROTARY WINGS  
 . VORTICES  
 . WING TIP VORTICES

### BLADES

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)  
 RT AIRFOILS  
 . BLADES (CUTTERS)  
 . COMPRESSOR BLADES  
 . FINS  
 . HYDROFOILS  
 . PROPELLER BLADES  
 . RIMS  
 . ROTARY WINGS  
 . ROTOR BLADES (TURBOMACHINERY)  
 . STATOR BLADES  
 . TURBINE BLADES  
 . TURBOMACHINE BLADES  
 . VANES

### BLANKING

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)  
 RT BLANKING (CUTTING)  
 . FORMING TECHNIQUES  
 . STAMPING

### BLASIUS EQUATION

GS ANALYSIS (MATHEMATICS)  
 . REAL VARIABLES  
 . . . DIFFERENTIAL EQUATIONS  
 . . . . . BLASIUS EQUATION  
 . FLOW EQUATIONS  
 . . . BOUNDARY LAYER EQUATIONS  
 . . . . . BLASIUS EQUATION  
 RT BOUNDARY LAYER FLOW  
 ∞ EQUATIONS  
 . FALKNER-SKAN EQUATION  
 . FLAT PLATES  
 . PRANDTL-MEYER EXPANSION

### BLASIUS FLOW

GS FLUID FLOW  
 . LAMINAR FLOW  
 . . . BLASIUS FLOW  
 . . . UNIFORM FLOW  
 . . . . . BLASIUS FLOW  
 RT FLAT PLATES  
 . HEAD FLOW  
 . TOLLMIE-SCHLICHTING WAVES  
 . TURBULENT FLOW  
 . TWO DIMENSIONAL FLOW  
 . WEDGE FLOW

### BLAST LOADS

GS AERODYNAMIC FORCES  
 . AERODYNAMIC LOADS  
 . . . BLAST LOADS  
 . . . LOADS (FORCES)  
 . . . DYNAMIC LOADS  
 . . . . . AERODYNAMIC LOADS  
 . . . . . BLAST LOADS  
 . . . TRANSIENT LOADS  
 . . . SHOCK LOADS  
 . . . . . BLAST LOADS  
 RT AERIAL EXPLOSIONS  
 . DYNAMIC PRESSURE  
 . EXPLOSIONS  
 . GUST LOADS  
 . IMPACT LOADS  
 . OVERPRESSURE  
 . PRESSURE  
 . PRESSURE PULSES  
 . RIEMANN WAVES  
 . SHOCK WAVES  
 . WAVE RESISTANCE

### BLASTOFF

USE ROCKET LAUNCHING

### BLEED-OFF

USE PRESSURE REDUCTION

## BODY-WING CONFIGURATIONS

### ∞ BLEEDING

- SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)
- RT BOUNDARY LAYER CONTROL  
FLUID MECHANICS  
HEMORRHAGES  
PRESSURE REDUCTION

### BLENDS

- USE MIXTURES

### BLIND LANDING

- GS LANDING  
. BLIND LANDING
- RT AIRCRAFT LANDING  
APPROACH INDICATORS  
AUTOMATIC LANDING CONTROL  
INSTRUMENT APPROACH  
INSTRUMENT FLIGHT RULES  
INSTRUMENT LANDING SYSTEMS  
LANDING INSTRUMENTS  
NIGHT FLIGHTS (AIRCRAFT)

### BLOWDOWN WIND TUNNELS

- GS TEST FACILITIES  
. WIND TUNNELS  
. BLOWDOWN WIND TUNNELS
- RT HOTSHOT WIND TUNNELS  
HYPERSONIC WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
LOW DENSITY RESEARCH  
LOW SPEED WIND TUNNELS  
SUBSONIC WIND TUNNELS  
SUPERSONIC WIND TUNNELS  
TRANSONIC WIND TUNNELS

### BLOWING

- GS BLOWING  
. SPANWISE BLOWING  
. UNDER SURFACE BLOWING  
. UPPER SURFACE BLOWING
- RT AERATION  
AGITATION  
BLOWERS  
BOUNDARY LAYER CONTROL  
CIRCULATION  
CIRCULATION CONTROL AIRFOILS  
COMPRESSING  
ENTRAINMENT  
EXHAUSTING  
FORCED CONVECTION  
INJECTION  
MIXING  
∞ PUMPING  
SPRAYING  
WIND (METEOROLOGY)

### BLOWN FLAPS

- USE EXTERNALLY BLOWN FLAPS

### BLOWOFF (COMBUSTION)

- USE FLAMEOUT

### BLOWOUTS

- RT FATIGUE LIFE  
TIRES

### BLUE GOOSE MISSILE

- GS DECOYS  
. BLUE GOOSE MISSILE  
MISSILES  
. SURFACE TO AIR MISSILES  
. BLUE GOOSE MISSILE
- RT BOOSTER ROCKET ENGINES  
COUNTERMEASURES  
J-85 ENGINE  
SOLID PROPELLANT ROCKET ENGINES

### BLUE SCOUT ROCKET VEHICLE

- GS LAUNCH VEHICLES  
. BLUE SCOUT ROCKET VEHICLE  
ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. BLUE SCOUT ROCKET VEHICLE
- RT ALGOL ENGINE  
SOLID PROPELLANT ROCKET ENGINES  
X-248 ENGINE  
X-254 ENGINE  
XM-33 ENGINE

### BLUE STEEL MISSILE

- GS MISSILES  
. BLUE STEEL MISSILE

### BLUE STEEL MISSILE-(CONT.)

- RT LIQUID PROPELLANT ROCKET ENGINES

### BLUE STREAK LAUNCH VEHICLE

- GS LAUNCH VEHICLES  
. BLUE STREAK LAUNCH VEHICLE  
ROCKET VEHICLES  
. BLUE STREAK LAUNCH VEHICLE
- RT ELDO LAUNCH VEHICLE  
LIQUID PROPELLANT ROCKET ENGINES

### BLUE STREAK MISSILE

- GS MISSILES  
. BALLISTIC MISSILES  
. INTERMEDIATE RANGE BALLISTIC  
MISSILES  
. BLUE STREAK MISSILE  
. SURFACE TO SURFACE MISSILES  
. INTERMEDIATE RANGE BALLISTIC  
MISSILES  
. BLUE STREAK MISSILE  
ROCKET VEHICLES  
. BLUE STREAK MISSILE
- RT LIQUID PROPELLANT ROCKET ENGINES

### BLUFF BODIES

- RT BLUNT BODIES  
∞ BODIES  
DUCTED BODIES  
FOREBODIES  
LIFTING BODIES  
REENTRY VEHICLES  
ROSHKO PREDICTION

### BLUNT BODIES

- RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
AXISYMMETRIC BODIES  
BLUFF BODIES  
∞ BODIES  
DUCTED BODIES  
FOREBODIES  
MISSILE BODIES  
NOSE CONES  
STAGNATION POINT  
SYMMETRICAL BODIES

### BLUNT LEADING EDGES

- GS EDGES  
. LEADING EDGES  
. BLUNT LEADING EDGES
- RT AIRFOILS  
FOREBODIES  
TRAILING EDGES

### BLUNT TRAILING EDGES

- GS EDGES  
. TRAILING EDGES  
. BLUNT TRAILING EDGES
- RT AIRFOILS  
CONTROL SURFACES  
WINGS

### BO-105 HELICOPTER

- GS BOKOW AIRCRAFT  
. BO-105 HELICOPTER  
PASSENGER AIRCRAFT  
. BO-105 HELICOPTER  
UTILITY AIRCRAFT  
. BO-105 HELICOPTER  
V/STOL AIRCRAFT  
. ROTARY WING AIRCRAFT  
. HELICOPTERS  
. MILITARY HELICOPTERS  
. BO-105 HELICOPTER

### BOATS

- GS SURFACE VEHICLES  
. BOATS  
. LIFEBOATS  
WATER VEHICLES  
. BOATS  
. LIFEBOATS
- RT AMPHIBIOUS VEHICLES  
HARBORS  
INFLATABLE STRUCTURES  
KEELS  
∞ MILITARY VEHICLES  
RESEARCH VEHICLES  
SHIPS  
UNDERWATER VEHICLES

### BOATTAILS

- RT AFTERBODIES

### BOATTAILS-(CONT.)

- SKIRTS  
TAIL ASSEMBLIES

### ∞ BODIES

- SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)
- RT AFTERBODIES  
AXISYMMETRIC BODIES  
BLUFF BODIES  
BLUNT BODIES  
BODIES OF REVOLUTION  
CELESTIAL BODIES  
CENTERBODIES  
DUCTED BODIES  
ELASTIC BODIES  
FINNED BODIES  
FLEXIBLE BODIES  
FOREIGN BODIES  
HERBIG-HARO OBJECTS  
HUMAN BODY  
LENTICULAR BODIES  
LIFTING BODIES  
MANEUVERABLE REENTRY BODIES  
MISSILE BODIES  
PLANFORMS  
PLASTIC BODIES  
PYRAMIDAL BODIES  
REENTRY VEHICLES  
ROTATING BODIES  
SLENDER BODIES  
SOLIDS  
STREAMLINED BODIES  
SYMMETRICAL BODIES  
THREE DIMENSIONAL BODIES  
TOWED BODIES  
TWO DIMENSIONAL BODIES

### BODIES OF REVOLUTION

- GS SYMMETRICAL BODIES  
. BODIES OF REVOLUTION  
. CONICAL BODIES  
. SLENDER CONES  
. CYLINDRICAL BODIES  
. ROTATING CYLINDERS  
. PARABOLIC BODIES  
. SPHERES  
. CELESTIAL SPHERE  
. CONCENTRIC SPHERES  
. FALLING SPHERES  
. POINCARÉ SPHERES  
. ROTATING SPHERES  
. TORUSES
- RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
AXES OF ROTATION  
AXISYMMETRIC BODIES  
∞ BODIES  
CONES  
DISKS (SHAPES)  
ELLIPSOIDS  
FINNED BODIES  
GEOMETRY  
∞ HEMISPHERES  
HEMISPHERICAL SHELLS  
OGIVES  
∞ RINGS  
SPHERICAL SHELLS  
STREAMLINED BODIES

### BODY KINEMATICS

- GS KINEMATICS  
. BODY KINEMATICS
- RT ACCELERATION (PHYSICS)  
ACCELERATION STRESSES  
(PHYSIOLOGY)  
KINETICS  
PARTICLE THEORY  
VELOCITY

### BODY TEMPERATURE (NON-BIOLOGICAL)

- USE TEMPERATURE

### BODY-WING AND TAIL CONFIGURATIONS

- RT AERODYNAMIC CONFIGURATIONS  
∞ CONFIGURATIONS  
FUSELAGES  
TAIL ASSEMBLIES  
WINGS

### BODY-WING CONFIGURATIONS

- RT AERODYNAMIC CONFIGURATIONS  
AIRFOILS  
DROOPED AIRFOILS

## BOEING AIRCRAFT

### BODY-WING CONFIGURATIONS-(CONT.)

GAW-2 AIRFOIL  
WINGS

### BOEING AIRCRAFT

UF VERTOL MILITARY HELICOPTERS  
GS **BOEING AIRCRAFT**

. B-47 AIRCRAFT  
. B-50 AIRCRAFT  
. B-52 AIRCRAFT  
. BOEING 707 AIRCRAFT  
. BOEING 720 AIRCRAFT  
. BOEING 727 AIRCRAFT  
. BOEING 733 AIRCRAFT  
. BOEING 737 AIRCRAFT  
. BOEING 747 AIRCRAFT  
. BOEING 757 AIRCRAFT  
. BOEING 767 AIRCRAFT  
. BOEING 2707 AIRCRAFT  
. C-135 AIRCRAFT  
. CH-21 HELICOPTER  
. CH-46 HELICOPTER  
. CH-47 HELICOPTER  
. CH-62 HELICOPTER  
. E-3A AIRCRAFT  
. E-4A AIRCRAFT  
. H-25 HELICOPTER  
. RB-50 AIRCRAFT  
. V-22 AIRCRAFT  
. VZ-2 AIRCRAFT  
. X-20 AIRCRAFT

RT  $\infty$  AIRCRAFT  
AWACS AIRCRAFT  
YC-14 AIRCRAFT

**BOEING MILITARY AIRCRAFT**  
USE MILITARY AIRCRAFT

### BOEING 707 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 707 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 707 AIRCRAFT**  
. JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **BOEING 707 AIRCRAFT**  
. MONOPLANES  
. **BOEING 707 AIRCRAFT**  
. PASSENGER AIRCRAFT  
. **BOEING 707 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 707 AIRCRAFT**

RT  $\infty$  AIRCRAFT

### BOEING 720 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 720 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 720 AIRCRAFT**  
. JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **BOEING 720 AIRCRAFT**  
. MONOPLANES  
. **BOEING 720 AIRCRAFT**  
. PASSENGER AIRCRAFT  
. **BOEING 720 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 720 AIRCRAFT**

RT  $\infty$  AIRCRAFT

### BOEING 727 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 727 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 727 AIRCRAFT**  
. JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **BOEING 727 AIRCRAFT**  
. PASSENGER AIRCRAFT  
. **BOEING 727 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 727 AIRCRAFT**

RT  $\infty$  AIRCRAFT  
CARGO AIRCRAFT

### BOEING 733 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 733 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 733 AIRCRAFT**  
. JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **BOEING 733 AIRCRAFT**  
. MONOPLANES  
. **BOEING 733 AIRCRAFT**

### BOEING 733 AIRCRAFT-(CONT.)

SUPERSONIC AIRCRAFT  
. **BOEING 733 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 733 AIRCRAFT**  
RT  $\infty$  AIRCRAFT  
VARIABLE SWEEP WINGS

### BOEING 737 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 737 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 737 AIRCRAFT**  
. JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **BOEING 737 AIRCRAFT**  
. MONOPLANES  
. **BOEING 737 AIRCRAFT**  
. PASSENGER AIRCRAFT  
. **BOEING 737 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 737 AIRCRAFT**

RT  $\infty$  AIRCRAFT  
CARGO AIRCRAFT

### BOEING 747 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 747 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 747 AIRCRAFT**  
. JET AIRCRAFT  
. **BOEING 747 AIRCRAFT**  
. PASSENGER AIRCRAFT  
. **BOEING 747 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 747 AIRCRAFT**

RT  $\infty$  AIRCRAFT  
TURBOFAN ENGINES

### BOEING 747B AIRCRAFT

USE E-4A AIRCRAFT

### BOEING 757 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 757 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 757 AIRCRAFT**  
. JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **BOEING 757 AIRCRAFT**  
. MONOPLANES  
. **BOEING 757 AIRCRAFT**  
. PASSENGER AIRCRAFT  
. **BOEING 757 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 757 AIRCRAFT**

RT  $\infty$  AIRCRAFT

### BOEING 767 AIRCRAFT

GS **BOEING AIRCRAFT**  
. **BOEING 767 AIRCRAFT**  
. COMMERCIAL AIRCRAFT  
. **BOEING 767 AIRCRAFT**  
. JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. **BOEING 767 AIRCRAFT**  
. MONOPLANES  
. **BOEING 767 AIRCRAFT**  
. PASSENGER AIRCRAFT  
. **BOEING 767 AIRCRAFT**  
. TRANSPORT AIRCRAFT  
. **BOEING 767 AIRCRAFT**

RT  $\infty$  AIRCRAFT  
CARGO AIRCRAFT  
TURBOFAN ENGINES

### BOGOLIUBOV THEORY

RT BBGKY HIERARCHY  
 $\infty$  THEORIES

### BOILING

UF EBULLITION  
GS PHASE TRANSFORMATIONS  
. VAPORIZING  
. **BOILING**  
. . . FILM BOILING  
. . . NUCLEATE BOILING  
. . . LEIDENFROST PHENOMENON

RT EFFERVESCENCE  
EVAPORATION  
EVOLUTION (LIBERATION)  
HEAT TRANSFER  
HEATING

### BOLKOW AIRCRAFT

GS **BOLKOW AIRCRAFT**  
. BO-105 HELICOPTER  
RT  $\infty$  AIRCRAFT

### BOLTZMANN DISTRIBUTION

GS DISTRIBUTION (PROPERTY)  
**BOLTZMANN DISTRIBUTION**  
RT ATMOSPHERIC DENSITY  
ATMOSPHERIC DIFFUSION  
KINETIC THEORY  
STATISTICAL MECHANICS  
TWO FLUID MODELS

### BOLTZMANN TRANSPORT EQUATION

RT BBGKY HIERARCHY  
CHAPMAN-ENSKOG THEORY  
 $\infty$  EQUATIONS  
FOKKER-PLANCK EQUATION  
HYDRODYNAMIC EQUATIONS  
KINETIC THEORY  
PARTICLE DIFFUSION  
STATISTICAL MECHANICS  
TRANSPORT PROPERTIES  
TRANSPORT THEORY

### BOMARC A MISSILE

GS MISSILES  
. SURFACE TO AIR MISSILES  
. BOMARC MISSILES  
. **BOMARC A MISSILE**  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES

### BOMARC B MISSILE

GS MISSILES  
. SURFACE TO AIR MISSILES  
. BOMARC MISSILES  
. **BOMARC B MISSILE**  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES

### BOMARC MISSILES

GS MISSILES  
. ANTI-AIRCRAFT MISSILES  
. **BOMARC MISSILES**  
. SURFACE TO AIR MISSILES  
. **BOMARC MISSILES**  
. . . BOMARC A MISSILE  
. . . BOMARC B MISSILE

### BOMBER AIRCRAFT

GS **ATTACK AIRCRAFT**  
**BOMBER AIRCRAFT**  
. A-2 AIRCRAFT  
. A-3 AIRCRAFT  
. A-4 AIRCRAFT  
. A-5 AIRCRAFT  
. A-6 AIRCRAFT  
. B-1 AIRCRAFT  
. B-26 AIRCRAFT  
. B-47 AIRCRAFT  
. B-50 AIRCRAFT  
. B-52 AIRCRAFT  
. B-57 AIRCRAFT  
. B-58 AIRCRAFT  
. B-66 AIRCRAFT  
. B-70 AIRCRAFT  
. F-100 AIRCRAFT  
. SHACKLETON BOMBER  
. VALIANT AIRCRAFT  
. VICTOR MK-1 AIRCRAFT  
. VULCAN AIRCRAFT

RT  $\infty$  AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
BOMBING EQUIPMENT  
JET AIRCRAFT  
 $\infty$  MILITARY AIRCRAFT  
 $\infty$  MILITARY AVIATION  
RB-50 AIRCRAFT  
TANKER AIRCRAFT  
TRAINING AIRCRAFT  
VAMPIRE MK 35 AIRCRAFT

### BOMBING EQUIPMENT

GS ONBOARD EQUIPMENT  
AIRCRAFT EQUIPMENT  
. **BOMBING EQUIPMENT**  
RT B-1 AIRCRAFT  
BOMBER AIRCRAFT  
BOMBS (ORDNANCE)  
 $\infty$  EQUIPMENT  
FIRE CONTROL

## BOUNDARY LAYER TRANSITION

**BOMBS (PRESSURE GAGES)**  
USE PRESSURE GAGES

**BONANZA AIRCRAFT**  
USE C-35 AIRCRAFT

**∞ BOOM**  
SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT BOOMS (EQUIPMENT)  
SONIC BOOMS  
TAIL ASSEMBLIES

**BOOST**  
USE ACCELERATION (PHYSICS)

**BOOSTER ROCKET ENGINES**  
UF ROCKET BOOSTERS  
GS ENGINES  
... ROCKET ENGINES  
... **BOOSTER ROCKET ENGINES**  
... AJ-10 ENGINE  
... ALGOL ENGINE  
... APOGEE BOOST MOTORS  
... H-1 ENGINE  
... LR-87-AJ-5 ENGINE  
... M-1 ENGINE  
... M-55 ENGINE  
... MA-2 ENGINE  
... MA-3 ENGINE  
... MA-5 ENGINE  
... NIKE BOOSTER ROCKET ENGINES  
... P-1 ENGINE  
... ROCKET ENGINE 9KS-11000  
... SPACE SHUTTLE BOOSTERS  
... ADVANCED SOLID ROCKET MOTOR (STS)  
... X-405 ENGINE  
RT AIR BREATHING BOOSTERS  
BLUE GOOSE MISSILE  
∞ BOOSTERS  
BURNOUT  
DUCTED ROCKET ENGINES  
EXPENDABLE STAGES (SPACECRAFT)  
F-1 ROCKET ENGINE  
HYBRID PROPELLANT ROCKET ENGINES  
INTERNAL COMBUSTION ENGINES  
LAUNCH VEHICLES  
LIFTOFF (LAUNCHING)  
LIQUID PROPELLANT ROCKET ENGINES  
MACE MISSILES  
NUCLEAR ENGINE FOR ROCKET VEHICLES  
NUCLEAR ROCKET ENGINES  
OXYGEN-HYDROCARBON ROCKET ENGINES  
RECOVERABLE SPACECRAFT  
SOLID PROPELLANT ROCKET ENGINES  
SPINNING SOLID UPPER STAGE  
STAGE SEPARATION  
SUSTAINER ROCKET ENGINES  
TURBOROCKET ENGINES  
TX-354 ENGINE

**∞ BOOSTER ROCKETS**  
SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT LAUNCH VEHICLES

**∞ BOOSTERS**  
SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT AIR BREATHING BOOSTERS  
AMPLIFIERS  
APOGEE BOOST MOTORS  
BOOSTER ROCKET ENGINES  
BOOSTERS (EXPLOSIVES)  
LAUNCH VEHICLES  
SCOUT PROJECT  
SPACE SHUTTLE BOOSTERS  
TITAN PROJECT

**BOOSTGLIDE VEHICLES**  
GS GLIDERS  
... **BOOSTGLIDE VEHICLES**  
... X-20 AIRCRAFT  
REENTRY VEHICLES  
... **BOOSTGLIDE VEHICLES**  
... X-20 AIRCRAFT  
RT AEROSPACE PLANES  
∞ AIRCRAFT  
ASTRO VEHICLE

**BOOSTGLIDE VEHICLES—(CONT.)**  
GLIDING  
HYPERSONIC AIRCRAFT  
HYPERSONIC GLIDERS  
LIFTING REENTRY VEHICLES  
MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
ROCKET PLANES  
∞ VEHICLES

**BORES**  
USE CAVITIES

**BOUNDARIES**  
UF PERIPHERIES  
GS **BOUNDARIES**  
... FLUID BOUNDARIES  
... GAS-SOLID INTERFACES  
... JET BOUNDARIES  
... LIQUID-LIQUID INTERFACES  
... LIQUID-SOLID INTERFACES  
... LIQUID-VAPOR INTERFACES  
... FREE BOUNDARIES  
... GRAIN BOUNDARIES  
RT AIRSPACE  
BORDERS  
BOUNDARY CONDITIONS  
CIRCUMFERENCES  
CONTOUR SENSORS  
DELINEATION  
FENCES (BARRIERS)  
INTERFACES  
REGIONS

**BOUNDARY ELEMENT METHOD**  
GS STRESS ANALYSIS  
RT **BOUNDARY ELEMENT METHOD**  
APERTURES

**BOUNDARY INTEGRAL METHOD**  
GS ANALYSIS (MATHEMATICS)  
... NUMERICAL ANALYSIS  
... **BOUNDARY INTEGRAL METHOD**  
PROCEDURES  
RT **BOUNDARY INTEGRAL METHOD**  
BOUNDARY VALUE PROBLEMS  
∞ METHODOLOGY

**BOUNDARY LAYER COMBUSTION**  
GS COMBUSTION  
... **BOUNDARY LAYER COMBUSTION**  
RT BOUNDARY LAYERS  
COMBUSTIBLE FLOW  
CONVECTIVE HEAT TRANSFER  
DIFFUSION FLAMES  
FLAME PROPAGATION  
LAMINAR BOUNDARY LAYER

**BOUNDARY LAYER CONTROL**  
UF LAMINAR FLOW CONTROL  
GS **BOUNDARY LAYER CONTROL**  
... POROUS BOUNDARY LAYER CONTROL  
RT AERODYNAMICS  
AIRFOIL FENCES  
∞ BLEEDING  
BLOWING  
BOUNDARY LAYERS  
BUFFETING  
CIRCULATION CONTROL AIRFOILS  
∞ CONTROL  
CONTROL SURFACES  
DRAG DEVICES  
FLUID AMPLIFIERS  
FLUTTER  
JET CONTROL  
LEADING EDGE SLATS  
LIFT AUGMENTATION  
LIFT DEVICES  
RIBBLETS  
SPOILERS  
TURBULENCE  
UPPER SURFACE BLOWN FLAPS  
VACUUM  
VORTEX GENERATORS  
WING SLOTS  
X-21 AIRCRAFT

**BOUNDARY LAYER EQUATIONS**  
GS FLOW EQUATIONS  
... **BOUNDARY LAYER EQUATIONS**  
... BLASIUS EQUATION  
RT BOUNDARY LAYERS  
DIFFERENTIAL EQUATIONS  
∞ EQUATIONS  
FLOW THEORY

**BOUNDARY LAYER FLOW**  
GS FLUID FLOW  
... VISCOUS FLOW  
... **BOUNDARY LAYER FLOW**  
... REATTACHED FLOW  
... SECONDARY FLOW  
... SEPARATED FLOW  
... BOUNDARY LAYER SEPARATION  
RT AIR CURRENTS  
ATMOSPHERIC BOUNDARY LAYER  
BACKWARD FACING STEPS  
BLASIUS EQUATION  
CONVECTIVE HEAT TRANSFER  
FLOW DISTRIBUTION  
LIGHTHILL GAS MODEL  
MAGNUS EFFECT  
RECIRCULATIVE FLUID FLOW  
REYNOLDS NUMBER  
STAGNATION FLOW  
STAGNATION POINT  
TOLLMIE-SCHLICHTING WAVES  
WALL FLOW

**BOUNDARY LAYER NOISE**  
USE AERODYNAMIC NOISE  
BOUNDARY LAYERS

**BOUNDARY LAYER SEPARATION**  
UF BREAKAWAY  
FLOW SEPARATION  
LAMINAR BOUNDARY LAYER SEPARATION  
GS FLUID FLOW  
... VISCOUS FLOW  
... BOUNDARY LAYER FLOW  
... SEPARATED FLOW  
... **BOUNDARY LAYER SEPARATION**  
RT AERODYNAMIC STALLING  
AIRSPEED  
ANGLE OF ATTACK  
BOUNDARY LAYERS  
CROCCO-LEE THEORY  
∞ DIFFUSERS  
FALKNER-SKAN EQUATION  
FLOW DISTRIBUTION  
INJECTION  
KUTTA-JOUKOWSKI CONDITION  
LIFT DRAG RATIO  
REATTACHED FLOW  
RECIRCULATIVE FLUID FLOW  
REVERSED FLOW  
ROTATING STALLS  
∞ SEPARATION  
STAGNATION FLOW  
∞ STALLING  
SWEEP ANGLE  
VORTEX GENERATORS  
ZERO LIFT

**BOUNDARY LAYER STABILITY**  
GS DYNAMIC CHARACTERISTICS  
... DYNAMIC STABILITY  
... MOTION STABILITY  
... FLOW STABILITY  
... **BOUNDARY LAYER STABILITY**  
... FLOW CHARACTERISTICS  
... FLOW STABILITY  
... **BOUNDARY LAYER STABILITY**  
STABILITY  
... DYNAMIC STABILITY  
... MOTION STABILITY  
... FLOW STABILITY  
... **BOUNDARY LAYER STABILITY**  
RT AERODYNAMIC STABILITY  
BACKWASH  
BOUNDARY LAYERS  
GOERTLER INSTABILITY  
REYNOLDS NUMBER

**BOUNDARY LAYER TRANSITION**  
RT AIR CURRENTS  
BOUNDARY LAYERS  
EKMAN LAYER  
GOERTLER INSTABILITY  
KNUDSEN FLOW  
LAMINAR BOUNDARY LAYER  
LAMINAR FLOW  
MOLECULAR FLOW  
REYNOLDS NUMBER  
THREE DIMENSIONAL BOUNDARY LAYER  
TOLLMIE-SCHLICHTING WAVES  
∞ TRANSITION  
TRANSITION FLOW  
∞ TRANSITION LAYERS  
TRANSITION POINTS

## BOUNDARY LAYERS

### BOUNDARY LAYER TRANSITION-(CONT.)

TURBULENCE  
TURBULENT BOUNDARY LAYER  
TURBULENT FLOW

### BOUNDARY LAYERS

UF BOUNDARY LAYER NOISE  
GS **BOUNDARY LAYERS**  
    . ATMOSPHERIC BOUNDARY LAYER  
    . COMPRESSIBLE BOUNDARY LAYER  
    . HYPERSONIC BOUNDARY LAYER  
    . INCOMPRESSIBLE BOUNDARY LAYER  
    . LAMINAR BOUNDARY LAYER  
    . PLANETARY BOUNDARY LAYER  
    . SUPERSONIC BOUNDARY LAYERS  
    . THERMAL BOUNDARY LAYER  
    . THREE DIMENSIONAL BOUNDARY LAYER  
RT BOUNDARY LAYER TRANSITION  
    . TURBULENT BOUNDARY LAYER  
    . TWO DIMENSIONAL BOUNDARY LAYER  
RT BOUNDARY CONDITIONS  
BOUNDARY LAYER COMBUSTION  
BOUNDARY LAYER CONTROL  
BOUNDARY LAYER EQUATIONS  
BOUNDARY LAYER PLASMAS  
BOUNDARY LAYER SEPARATION  
BOUNDARY LAYER STABILITY  
BOUNDARY LAYER TRANSITION  
CROCCO METHOD  
∞ DRAFT  
DRAG  
FLUID BOUNDARIES  
FLUID FLOW  
GAS-SOLID INTERFACES  
∞ LAYERS  
LIQUID-LIQUID INTERFACES  
LIQUID-SOLID INTERFACES  
MIXING LAYERS (FLUIDS)  
PANEL METHOD (FLUID DYNAMICS)  
SHEAR LAYERS  
SURFACE LAYERS  
WALL PRESSURE

### BOURDON TUBES

GS TRANSDUCERS  
    . PRESSURE SENSORS  
    . **BOURDON TUBES**  
RT PRESSURE GAGES  
    . PRESSURE MEASUREMENT  
∞ TUBES

### BOUSSINESQ APPROXIMATION

RT CONVECTION  
HEAT TRANSFER  
INCOMPRESSIBLE FLUIDS  
PERTURBATION THEORY  
THERMAL EXPANSION

### BOW SHOCK WAVES

USE BOW WAVES  
SHOCK WAVES

### BOW WAVES

UF BOW SHOCK WAVES  
RT HYPERSOUNDIC WAKES  
MACH CONES  
MAGNETOSHEATH  
SHOCK WAVES  
SURFACE WAVES

### ∞ BOWS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)

RT BENDING  
CAMBER  
FOREBODIES  
HEAVING

### ∞ BOXES

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)

RT BOX BEAMS  
BOXES (CONTAINERS)

### ∞ BRAKES

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)

RT BRAKES (FOR ARRESTING MOTION)  
BRAKES (FORMING OR BENDING)

### BRAKES (FOR ARRESTING MOTION)

UF DECELERATORS  
DRAGULATORS  
GS **BRAKES (FOR ARRESTING MOTION)**  
    . AERODYNAMIC BRAKES  
    . BALLUTES  
    . DRAG CHUTES  
    . PARAVULCOONS  
    . SPLIT FLAPS  
    . WING FLAPS  
    . LEADING EDGE FLAPS  
    . LEADING EDGE SLATS  
    . TRAILING EDGE FLAPS  
    . VORTEX FLAPS  
    . AIRCRAFT BRAKES  
    . SPLIT FLAPS  
    . WING FLAPS  
    . LEADING EDGE SLATS  
    . TRAILING EDGE FLAPS  
RT WHEEL BRAKES  
ABORT APPARATUS  
ANTISKID DEVICES  
∞ ARRESTERS  
ARRESTING GEAR  
∞ BRAKES  
BRAKING  
CYLINDRICAL CHAMBERS  
DRAG DEVICES  
FLAPS (CONTROL SURFACES)  
LANDING GEAR  
NOSE WHEELS  
PARACHUTES  
RETARDERS (DEVICES)  
THRUST REVERSAL  
TOWED BODIES  
VEHICLE WHEELS  
WHEELS

### BRAKING

RT BRAKES (FOR ARRESTING MOTION)  
DECELERATION  
EDDY CURRENTS  
RETARDERS (DEVICES)  
RETARDING  
THRUST REVERSAL

### BRAYTON CYCLE

GS CYCLES  
    . THERMODYNAMIC CYCLES  
    . **BRAYTON CYCLE**  
RT GAS TURBINE ENGINES  
GAS TURBINES  
RANKINE CYCLE  
SOLAR DYNAMIC POWER SYSTEMS

### BREAKAWAY

USE BOUNDARY LAYER SEPARATION

### BREAKUP (SPACECRAFT)

USE SPACECRAFT BREAKUP

### BREATHING VIBRATION

GS VIBRATION  
    . STRUCTURAL VIBRATION  
    . **BREATHING VIBRATION**  
RT BENDING VIBRATION  
∞ BREATHING  
EXHAUSTING  
MISSILE VIBRATION  
VENTING

### BREGUET AIRCRAFT

GS **BREGUET AIRCRAFT**  
    . BREGUET 940 AIRCRAFT  
    . BREGUET 941 AIRCRAFT  
    . BREGUET 1150 AIRCRAFT  
RT ∞ AIRCRAFT  
JAGUAR AIRCRAFT

### BREGUET 940 AIRCRAFT

GS BREGUET AIRCRAFT  
    . **BREGUET 940 AIRCRAFT**  
    . MONOPLANES  
    . BREGUET 940 AIRCRAFT  
    . RESEARCH AIRCRAFT  
    . BREGUET 940 AIRCRAFT  
V/STOL AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
    . **BREGUET 940 AIRCRAFT**  
RT ∞ AIRCRAFT

### BREGUET 941 AIRCRAFT

GS BREGUET AIRCRAFT  
    . BREGUET 941 AIRCRAFT  
JET AIRCRAFT

### BREGUET 941 AIRCRAFT-(CONT.)

TURBOPROP AIRCRAFT  
    . **BREGUET 941 AIRCRAFT**  
MONOPLANES  
    . BREGUET 941 AIRCRAFT  
PASSENGER AIRCRAFT  
    . BREGUET 941 AIRCRAFT  
TRANSPORT AIRCRAFT  
    . CARGO AIRCRAFT  
    . **BREGUET 941 AIRCRAFT**  
V/STOL AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
    . **BREGUET 941 AIRCRAFT**  
RT ∞ AIRCRAFT

### BRISTOL-SIDDELEY BS 53 ENGINE

UF PEGASUS ENGINE  
GS ENGINES  
    . AIR BREATHING ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . TURBOFAN ENGINES  
    . **BRISTOL-SIDDELEY BS 53**  
    . ENGINE  
INTERNAL COMBUSTION ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . TURBOFAN ENGINES  
    . **BRISTOL-SIDDELEY BS 53**  
    . ENGINE  
TURBINE ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . TURBOFAN ENGINES  
    . **BRISTOL-SIDDELEY BS 53**  
    . ENGINE  
RT P-1127 AIRCRAFT

### BRISTOL-SIDDELEY OLYMPUS 593 ENGINE

GS ENGINES  
    . AIR BREATHING ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . **BRISTOL-SIDDELEY OLYMPUS**  
    . 593 ENGINE  
INTERNAL COMBUSTION ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . **BRISTOL-SIDDELEY OLYMPUS**  
    . 593 ENGINE  
TURBINE ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . **BRISTOL-SIDDELEY OLYMPUS**  
    . 593 ENGINE

### BRISTOL-SIDDELEY VIPER ENGINE

GS ENGINES  
    . AIR BREATHING ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . **BRISTOL-SIDDELEY VIPER**  
    . ENGINE  
INTERNAL COMBUSTION ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . **BRISTOL-SIDDELEY VIPER**  
    . ENGINE  
TURBINE ENGINES  
    . GAS TURBINE ENGINES  
    . JET ENGINES  
    . TURBOJET ENGINES  
    . **BRISTOL-SIDDELEY VIPER**  
    . ENGINE

### BRITISH AIRCRAFT CORP AIRCRAFT

USE BAC AIRCRAFT

### BUBBLE TECHNIQUE

GS TECHNOLOGIES  
    . **BUBBLE TECHNIQUE**  
RT DATA RECORDERS  
ELECTRONIC EQUIPMENT  
FLIGHT INSTRUMENTS  
∞ INSTRUMENTS  
MAGNETIC DOMAINS  
ONBOARD EQUIPMENT

**BUBBLE TECHNIQUE-(CONT.)**

RECORDING INSTRUMENTS  
SEMICONDUCTOR DEVICES  
SOLID STATE DEVICES  
SPACECRAFT INSTRUMENTS

**BUBBLES**

RT AERATION  
CAVITATION FLOW  
COANDA EFFECT  
EFFERVESCENCE  
FOAMS  
METAL FOAMS  
WAKES

**BUCCANEER AIRCRAFT**

UF B-103 AIRCRAFT  
BLACKBURN B-103 AIRCRAFT  
GS ATTACK AIRCRAFT  
. BUCCANEER AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
. BUCCANEER AIRCRAFT  
JET AIRCRAFT  
. BUCCANEER AIRCRAFT  
MONOPLANES  
. BUCCANEER AIRCRAFT  
RT ∞ AIRCRAFT  
HARRIER AIRCRAFT

**BUCKEYE AIRCRAFT**

USE T-2 AIRCRAFT

**BUFFALO AIRCRAFT**

USE DHC 5 AIRCRAFT

**BUFFETING**

RT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
BOUNDARY LAYER CONTROL  
COMPRESSIBILITY EFFECTS  
FLIGHT CHARACTERISTICS  
FLUTTER  
OSCILLATING FLOW  
SHAKING  
SPACECRAFT MOTION  
SPACECRAFT STABILITY  
STROUHAL NUMBER  
TURBULENCE EFFECTS  
VORTEX AVOIDANCE

**BUILDING MATERIALS**

USE CONSTRUCTION MATERIALS

**BULK ACOUSTIC WAVE DEVICES**

UF B-A-W DEVICES  
RT ∞ DEVICES  
SURFACE ACOUSTIC WAVE DEVICES  
TRANSDUCERS

**BULK MODULUS**

GS MECHANICAL PROPERTIES  
. BULK MODULUS  
RT COMPRESSIBILITY  
DENSITY (MASS/VOLUME)

**BULKHEADS**

GS WALLS  
. BULKHEADS  
RT ∞ BARRIERS  
END PLATES  
HULLS (STRUCTURES)  
PARTITIONS (STRUCTURES)  
REINFORCEMENT (STRUCTURES)  
THICK WALLS  
THIN WALLS

**BULLPUP B MISSILE**

RT LR-62-RM-2 ENGINE

**BULLPUP MISSILES**

GS MISSILES  
. AIR TO SURFACE MISSILES  
. BULLPUP MISSILES  
RT LR-62-RM-2 ENGINE

**BUMPERS**

RT CUSHIONS  
METEOROID PROTECTION  
METEORIODS  
PROTECTORS

**BUOYANCY**

RT ACOUSTIC LEVITATION  
AEROSTATICS

**BUOYANCY-(CONT.)**

BALLAST (MASS)  
DENSITY (MASS/VOLUME)  
FLOATING  
GAS DENSITY  
LEVITATION  
MECHANICAL PROPERTIES  
NEUTRAL BUOYANCY SIMULATION  
∞ PHYSICAL PROPERTIES  
POROSITY  
RAYLEIGH NUMBER  
VOIDS

**BUOYS**

RT BEACONS  
COMPASSES  
FLOATS  
∞ MARKERS  
NAVIGATION AIDS  
OCEAN DATA ACQUISITIONS SYSTEMS

**BURAN SPACE SHUTTLE**

GS MANNED SPACECRAFT  
. SPACE SHUTTLES  
. BURAN SPACE SHUTTLE  
REENTRY VEHICLES  
. RECOVERABLE SPACECRAFT  
. REUSABLE SPACECRAFT  
. SPACE SHUTTLES  
. BURAN SPACE SHUTTLE  
SOFT LANDING SPACECRAFT  
. BURAN SPACE SHUTTLE  
SOVIET SPACECRAFT  
. BURAN SPACE SHUTTLE  
RT AEROSPACE PLANES  
U.S.S.R. SPACE PROGRAM

**BURGER EQUATION**

GS ANALYSIS (MATHEMATICS)  
. REAL VARIABLES  
. DIFFERENTIAL EQUATIONS  
. PARTIAL DIFFERENTIAL EQUATIONS  
. BURGER EQUATION  
RT CONTINUUM MECHANICS  
∞ EQUATIONS  
NAVIER-STOKES EQUATION  
SHOCK WAVE PROPAGATION

**BURNING**

USE COMBUSTION

**BURNING PROCESS**

USE COMBUSTION

**BURNING RATE**

GS RATES (PER TIME)  
. BURNING RATE  
RT BURNOUT  
COMBUSTION  
COMBUSTION CONTROL  
COMBUSTION EFFICIENCY  
COMBUSTION STABILITY  
EXPLOSIVES  
FLAME PROPAGATION  
FLAMMABILITY  
FUEL CONSUMPTION  
FUEL-AIR RATIO  
FUELS  
PRESSURE DEPENDENCE  
PROPELLANT GRAINS  
PROPELLANTS  
SOLID PROPELLANT COMBUSTION  
SOLID PROPELLANT ROCKET ENGINES  
SOLID ROCKET PROPELLANTS  
VELOCITY COUPLING

**BURNING TIME**

UF FIRING TIME  
GS TIME  
. BURNING TIME  
RT COMBUSTION  
COMBUSTION EFFICIENCY  
FIRING (IGNITING)  
FLIGHT OPTIMIZATION  
FLIGHT TIME  
ROCKET ENGINES  
ROCKET FIRING  
TESTING TIME  
THRUST  
WINDOWS (INTERVALS)

**BURNTHROUGH (FAILURE)**

GS FAILURE  
. BURNTHROUGH (FAILURE)  
RT ABLATION

**BURNTHROUGH (FAILURE)-(CONT.)**

DAMAGE  
MELTING  
PERFORATING

**BURSTS**

GS BURSTS  
. GAMMA RAY BURSTS  
. RADIO BURSTS  
. SOLAR RADIO BURSTS  
. TYPE 2 BURSTS  
. TYPE 3 BURSTS  
. TYPE 4 BURSTS  
. TYPE 5 BURSTS  
RT ∞ DISTURBANCES  
EMISSION  
EXPLOSIONS  
FRAGMENTATION  
IMPLOSIONS  
RUPTURING

**BYPASSES**

UF SHUNTS  
RT DIVERTERS  
RELIEF VALVES

**C****C-1A AIRCRAFT**

UF TRADER AIRCRAFT  
GS GRUMMAN AIRCRAFT  
. C-1A AIRCRAFT  
TRANSPORT AIRCRAFT  
. CARGO AIRCRAFT  
. C-1A AIRCRAFT  
RT ∞ AIRCRAFT  
MILITARY AIRCRAFT

**C-2 AIRCRAFT**

UF COD AIRCRAFT  
GS GRUMMAN AIRCRAFT  
. C-2 AIRCRAFT  
JET AIRCRAFT  
. TURBOPROP AIRCRAFT  
. C-2 AIRCRAFT  
MONOPLANES  
. C-2 AIRCRAFT  
TRANSPORT AIRCRAFT  
. CARGO AIRCRAFT  
. C-2 AIRCRAFT  
RT ∞ AIRCRAFT

**C-5 AIRCRAFT**

UF GALAXY AIRCRAFT  
LOCKHEED C-5 AIRCRAFT  
GS JET AIRCRAFT  
. C-5 AIRCRAFT  
LOCKHEED AIRCRAFT  
. C-5 AIRCRAFT  
TRANSPORT AIRCRAFT  
. CARGO AIRCRAFT  
. C-5 AIRCRAFT  
RT ∞ AIRCRAFT  
TURBOFAN ENGINES

**C-8A AUGMENTOR WING AIRCRAFT**

GS JET AIRCRAFT  
. C-8A AUGMENTOR WING AIRCRAFT  
RESEARCH AIRCRAFT  
. C-8A AUGMENTOR WING AIRCRAFT  
TRANSPORT AIRCRAFT  
. SHORT HAUL AIRCRAFT  
. C-8A AUGMENTOR WING AIRCRAFT  
V/STOL AIRCRAFT  
. SHORT TAKEOFF AIRCRAFT  
. C-8A AUGMENTOR WING AIRCRAFT  
RT ∞ AIRCRAFT

**C-9 AIRCRAFT**

GS JET AIRCRAFT  
. C-9 AIRCRAFT  
MCDONNELL DOUGLAS AIRCRAFT  
. DOUGLAS AIRCRAFT  
. C-9 AIRCRAFT  
. MCDONNELL AIRCRAFT  
. C-9 AIRCRAFT  
TRANSPORT AIRCRAFT  
. CARGO AIRCRAFT  
. C-9 AIRCRAFT  
RT ∞ AIRCRAFT  
EVACUATING (TRANSPORTATION)

## CABINS

### ∞ CABINS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT AIRCRAFT COMPARTMENTS  
COCKPITS  
PRESSURIZED CABINS  
SPACECRAFT CABINS

### CABLE FORCE RECORDERS

GS RECORDING INSTRUMENTS  
∞ CABLE FORCE RECORDERS  
RT ∞ RECORDERS  
STRAIN GAGES  
TENSIOMETERS

### ∞ CABLES

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT CABLES (ROPES)  
COAXIAL CABLES  
COMMUNICATION CABLES  
POWER LINES  
SUBMARINE CABLES  
TETHERLINES  
TRANSMISSION LINES

### CAJUN ROCKET VEHICLE

GS ROCKET VEHICLES  
∞ SOUNDING ROCKETS  
∞ CAJUN ROCKET VEHICLE  
RT NIKE-CAJUN ROCKET VEHICLE  
SOLID PROPELLANT ROCKET ENGINES  
SONDES

### CALIBRATING

UF GRADUATION  
GS CALIBRATING  
∞ WIND TUNNEL CALIBRATION  
RT ACCURACY  
INSTRUMENT COMPENSATION  
INSTRUMENT ERRORS  
MEASURING INSTRUMENTS  
∞ SCALING  
∞ SOLAR CELL CALIBRATION FACILITY  
STANDARDIZATION  
STANDARDS  
TEMPERATURE SCALES

### CALORIMETRY

USE HEAT MEASUREMENT

### CAMBER

GS CAMBER  
∞ CONICAL CAMBER  
∞ WING CAMBER  
RT AIRFOILS  
BENDING  
∞ BOWS  
CAMBERED WINGS  
CURVATURE  
CURVED BEAMS  
DEFLECTION  
DEFORMATION  
DISTORTION  
FLEXING  
FUSELAGES  
LIFT  
WARPAGE

### CAMBERED WINGS

GS AIRFOILS  
∞ WINGS  
∞ CAMBERED WINGS  
RT CAMBER  
FIXED WINGS  
TWISTED WINGS  
UNCAMBERED WINGS  
WING CAMBER

### CAMEL AIRCRAFT

USE TU-104 AIRCRAFT

### CAMERAS

GS OPTICAL EQUIPMENT  
∞ CAMERAS  
∞ BAKER-NUNN CAMERA  
∞ BALLISTIC CAMERAS  
∞ DELFT CAMERA  
∞ DIFFRACTION LIMITED CAMERAS  
∞ FAINT OBJECT CAMERA  
∞ HIGH SPEED CAMERAS  
∞ FRAMING CAMERAS

### CAMERAS-(CONT.)

∞ I2S CAMERAS  
∞ LALLEMAND CAMERAS  
∞ MULTISPECTRAL BAND CAMERAS  
∞ PANORAMIC CAMERAS  
∞ PINHOLE CAMERAS  
∞ SCHMIDT CAMERAS  
∞ STREAK CAMERAS  
∞ TELEVISION CAMERAS  
PHOTOGRAPHIC EQUIPMENT  
∞ CAMERAS  
∞ BAKER-NUNN CAMERA  
∞ BALLISTIC CAMERAS  
∞ DELFT CAMERA  
∞ DIFFRACTION LIMITED CAMERAS  
∞ FAINT OBJECT CAMERA  
∞ HIGH SPEED CAMERAS  
∞ FRAMING CAMERAS  
∞ I2S CAMERAS  
∞ LALLEMAND CAMERAS  
∞ MULTISPECTRAL BAND CAMERAS  
∞ PANORAMIC CAMERAS  
∞ PINHOLE CAMERAS  
∞ SCHMIDT CAMERAS  
∞ STREAK CAMERAS  
∞ TELEVISION CAMERAS  
RT CAMERA SHUTTERS  
CAMERA TUBES  
CINEMATOGRAPHY  
FOCUSING  
LENSES  
PHOTOGRAPHY  
SIM  
STREAK PHOTOGRAPHY  
ULTRAVIOLET PHOTOGRAPHY  
UNDERWATER PHOTOGRAPHY  
WIDE ANGLE LENSES

### CANADAIR AIRCRAFT

UF CANADAIR CF-104 AIRCRAFT  
CF-104 AIRCRAFT  
GS CANADAIR AIRCRAFT  
∞ CL-41 AIRCRAFT  
∞ CL-44 AIRCRAFT  
∞ CL-84 AIRCRAFT  
∞ CL-600 CHALLENGER AIRCRAFT  
RT ∞ AIRCRAFT  
GENERAL DYNAMICS AIRCRAFT

### CANADAIR CF-104 AIRCRAFT

USE CANADAIR AIRCRAFT  
F-104 AIRCRAFT

### CANADAIR CL-41 AIRCRAFT

USE CL-41 AIRCRAFT

### CANADAIR CL-44 AIRCRAFT

USE CL-44 AIRCRAFT

### CANADAIR CL-84 AIRCRAFT

USE CL-84 AIRCRAFT

### CANALS

GS LANDFORMS  
∞ CANALS  
WATERWAYS  
∞ CANALS  
RT DITCHES  
FLOOD CONTROL  
FLUID FLOW  
GATES (OPENINGS)  
GREAT LAKES (NORTH AMERICA)  
IRRIGATION  
MARS SURFACE  
MATERIALS HANDLING  
PANAMA  
SEEPAGE  
STRAITS  
TROUGH  
WATER FLOW

### CANARD CONFIGURATIONS

RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT STRUCTURES  
∞ CONFIGURATIONS  
CONTROL SURFACES  
SAAB 37 AIRCRAFT  
TANDEM WING AIRCRAFT

### CANBERRA AIRCRAFT

UF ENGLISH ELECTRIC CANBERRA  
AIRCRAFT  
GS BAC AIRCRAFT  
∞ CANBERRA AIRCRAFT  
JET AIRCRAFT

### CANBERRA AIRCRAFT-(CONT.)

∞ CANBERRA AIRCRAFT  
MONOPLANES  
RT ∞ CANBERRA AIRCRAFT  
AIRCRAFT  
B-57 AIRCRAFT

### CANBERRA BOMBER

USE B-57 AIRCRAFT

### CANOPIES

RT AIRCRAFT STRUCTURES  
AIRFRAMES  
COCKPITS  
FAIRINGS  
WINDSHIELDS

### CANT

USE SLOPES

### CANTILEVER WINGS

USE WINGS

### CAPACITANCE-VOLTAGE CHARACTERISTICS

GS ELECTRICAL PROPERTIES  
∞ CAPACITANCE-VOLTAGE  
CHARACTERISTICS  
RT CAPACITANCE  
∞ CHARACTERISTICS  
ELECTRIC POTENTIAL  
METAL OXIDE SEMICONDUCTORS  
VOLT-AMPERE CHARACTERISTICS

### CAPACITIVE FUEL GAGES

GS MEASURING INSTRUMENTS  
∞ FUEL GAGES  
∞ CAPACITIVE FUEL GAGES  
RT DIELECTRICS

### ∞ CAPILLARIES

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT CAPILLARIES (ANATOMY)  
CAPILLARY TUBES

### CAPILLARY CIRCULATION

USE CAPILLARY FLOW

### CAPILLARY FLOW

UF CAPILLARY CIRCULATION  
GS FLUID FLOW  
∞ CAPILLARY FLOW  
RT BLOOD FLOW  
LAMINAR FLOW

### CAPILLARY TUBES

RT ∞ CAPILLARIES  
∞ TUBES

### CAPILLARY WAVES

GS ELASTIC WAVES  
∞ CAPILLARY WAVES  
∞ GRAVITY WAVES  
∞ BAROCLINIC WAVES  
∞ RIPPLES  
SURFACE WAVES  
∞ CAPILLARY WAVES  
∞ GRAVITY WAVES  
∞ BAROCLINIC WAVES  
∞ RIPPLES  
RT INTERFACIAL TENSION  
TWO DIMENSIONAL FLOW  
WATER WAVES

### ∞ CAPSULES

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT ∞ BUCKETS  
∞ CONTAINERS  
FUEL CAPSULES  
SHELLS (STRUCTURAL FORMS)  
SPACE CAPSULES  
TABLETS  
TEST CHAMBERS  
∞ TEST EQUIPMENT  
TEST VEHICLES  
∞ VESSELS

### CAPTIVE TESTS

GS CAPTIVE TESTS  
∞ STATIC TESTS  
∞ STATIC FIRING



**CAPTIVE TESTS-(CONT.)**

RT ENGINE TESTS  
GROUND TESTS  
MISSILE TESTS  
PREFIRING TESTS  
PRELAUNCH TESTS  
∞ TESTS

**CAPTURED AIR BUBBLE VEHICLES**

GS SURFACE VEHICLES  
... CAPTURED AIR BUBBLE VEHICLES  
WATER VEHICLES  
RT ... CAPTURED AIR BUBBLE VEHICLES  
HYDROFOIL CRAFT  
SURFACE EFFECT SHIPS  
SWATH (SHIP)  
∞ VEHICLES

**CARAVELLE AIRCRAFT**

USE SE-210 AIRCRAFT

**CARBURETORS**

UF INJECTION CARBURETORS  
RT CHOKES (FUEL SYSTEMS)  
CONTACTORS  
ENGINE PARTS  
ENGINES  
FUEL INJECTION  
FUEL SYSTEMS  
INJECTORS  
INTERNAL COMBUSTION ENGINES  
∞ JET NOZZLES  
MIXERS  
PREMIXED FLAMES  
THROATS

**CARET WINGS**

GS AIRFOILS  
... WINGS  
... CARET WINGS  
PLANFORMS  
... CARET WINGS  
RT ARROW WINGS  
DELTA WINGS  
WAVERIDERS

**CARGO**

UF FREIGHT  
GS CARGO  
... AIR CARGO  
... AIR MAIL  
... BAGGAGE  
RT AIR DROP OPERATIONS  
AIRDROPS  
DELIVERY  
FREIGHT COSTS  
HARBORS  
HAULING  
MATERIALS HANDLING  
RAILROAD HUMMING TESTS  
RAPID TRANSIT SYSTEMS  
TRANSPORTATION  
TRANSPORTATION ENERGY  
TRUCKS

**CARGO AIRCRAFT**

GS TRANSPORT AIRCRAFT  
... CARGO AIRCRAFT  
... BREGUET 941 AIRCRAFT  
... C-1A AIRCRAFT  
... C-2 AIRCRAFT  
... C-5 AIRCRAFT  
... C-9 AIRCRAFT  
... C-46 AIRCRAFT  
... C-47 AIRCRAFT  
... C-54 AIRCRAFT  
... C-118 AIRCRAFT  
... C-119 AIRCRAFT  
... C-121 AIRCRAFT  
... C-123 AIRCRAFT  
... C-124 AIRCRAFT  
... C-130 AIRCRAFT  
... C-131 AIRCRAFT  
... C-133 AIRCRAFT  
... C-135 AIRCRAFT  
... C-140 AIRCRAFT  
... C-141 AIRCRAFT  
... C-160 AIRCRAFT  
... CL-44 AIRCRAFT  
... DC 3 AIRCRAFT  
... DC 7 AIRCRAFT  
... F-27 AIRCRAFT  
... P-160 AIRCRAFT  
... P-166 AIRCRAFT  
... SPANLOADER AIRCRAFT

**CARGO AIRCRAFT-(CONT.)**

RT ... YC-14 AIRCRAFT  
AIR CARGO  
∞ AIRCRAFT  
BOEING 727 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOEING 767 AIRCRAFT  
COMMERCIAL AIRCRAFT  
HEAVY LIFT HELICOPTERS  
JET AIRCRAFT  
MATERIALS HANDLING  
MERCURE AIRCRAFT  
MH-262 AIRCRAFT  
∞ MILITARY AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
SC-7 AIRCRAFT  
SUPERSONIC TRANSPORTS  
T-39 AIRCRAFT  
TU-154 AIRCRAFT  
UTILITY AIRCRAFT  
VC-10 AIRCRAFT

**CARGOMASTER AIRCRAFT**

USE C-133 AIRCRAFT

**CARIBOU AIRCRAFT**

USE DHC 4 AIRCRAFT

**CARNOT CYCLE**

GS CYCLES  
... THERMODYNAMIC CYCLES  
... CARNOT CYCLE  
RT ADIABATIC CONDITIONS  
RANKINE CYCLE  
STIRLING CYCLE

**CARRIAGES**

RT CARTS  
CHASSIS  
DOLLIES  
FRAMES  
LANDING GEAR  
SUPPORTS  
UNDERCARRIAGES

**CARRIER ROCKETS**

USE LAUNCH VEHICLES

**∞ CARRIERS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT AIRCRAFT CARRIERS  
CARRIER DENSITY (SOLID STATE)  
CHARGE CARRIERS  
ZENER EFFECT

**CARTAN SPACE**

RT COMPRESSIBLE FLOW  
FLUID FLOW  
POTENTIAL FLOW  
∞ SPACE

**CARTS**

RT CARRIAGES  
MATERIALS HANDLING  
UNDERCARRIAGES

**CASCADE FLOW**

GS FLUID FLOW  
... CASCADE FLOW  
RT ∞ CASCADES  
OUTLET FLOW  
TURBOMACHINE BLADES

**CASCADE WIND TUNNELS**

GS TEST FACILITIES  
... WIND TUNNELS  
... HYPERSONIC WIND TUNNELS  
... CASCADE WIND TUNNELS  
... HYPERVELOCITY WIND TUNNELS  
... CASCADE WIND TUNNELS  
RT HYPERSONIC FLOW  
SHOCK TUNNELS

**∞ CASCADES**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT CASCADE CONTROL  
CASCADE FLOW  
CIRCUITS  
COSMIC RAY SHOWERS

**CASCADES-(CONT.)**

ELECTRON PHOTON CASCADES

**CASCADES (FLUID DYNAMICS)**

USE FLUID DYNAMICS

**CASES (CONTAINERS)**

GS CASES (CONTAINERS)  
... ROCKET ENGINE CASES  
RT BOXES (CONTAINERS)  
CARTRIDGES  
∞ CONTAINERS  
MISSILE BODIES  
PACKAGES  
∞ SHELVES

**CATAPULTS**

GS LAUNCHERS  
... CATAPULTS  
... ROCKET CATAPULTS  
RT AIRCRAFT LAUNCHING DEVICES  
MISSILE LAUNCHERS  
SEA LAUNCHING

**CATHOLYTES**

GS CONDUCTORS  
... ELECTROLYTES  
... CATHOLYTES  
RT ANOLYTES  
CELL CATHODES  
DIAPHRAGMS (MECHANICS)

**CAUCHY-RIEMANN EQUATIONS**

GS ANALYSIS (MATHEMATICS)  
... REAL VARIABLES  
... DIFFERENTIAL EQUATIONS  
... PARTIAL DIFFERENTIAL EQUATIONS  
... CAUCHY-RIEMANN EQUATIONS  
RT ANALYTIC FUNCTIONS  
∞ EQUATIONS

**CAUSTIC LINES**

RT FLIGHT PATHS  
SHOCK WAVES  
SONIC BOOMS  
SUPERSONIC FLIGHT  
WAVE FRONTS

**CAVITATION**

USE CAVITATION FLOW

**CAVITATION FLOW**

UF CAVITATION  
GASEOUS CAVITATION  
GS FLUID FLOW  
... TURBULENT FLOW  
... CAVITATION FLOW  
RT BUBBLES  
CAVITATION CORROSION  
EROSION  
FLOW DISTRIBUTION  
IMPINGEMENT  
SEPARATED FLOW  
SUPERCavitating FLOW  
ULTRASONIC CLEANING  
VORTICES  
WAKES  
WATER

**CAVITIES**

UF BORES  
RT APERTURES  
BOREHOLES  
CAVES  
∞ CELLS  
CRACK GEOMETRY  
CRACKS  
DEFECTS  
DUCTS  
GAS POCKETS  
HOLE DISTRIBUTION (MECHANICS)  
∞ HOLES  
HOLES (MECHANICS)  
∞ HOLLOW  
INTERSTICES  
KARST  
KETTLES (GEOLOGY)  
LEAKAGE  
OPENINGS  
ORIFICES  
OUTLETS  
PASSAGEWAYS  
PERFORATED PLATES  
PERFORATED SHELLS

## CC-106 AIRCRAFT

### CAVITIES-(CONT.)

- ∞ PERFORATION
- PORTS (OPENINGS)
- RECESSES
- TOOTH DISEASES
- VENTS
- VOIDS

### CC-106 AIRCRAFT

- USE CL-44 AIRCRAFT

### CEILING (AIRCRAFT CAPABILITY)

- RT ∞ AIRCRAFT
- AIRCRAFT SPECIFICATIONS
- ∞ CEILINGS
- FLIGHT ALTITUDE
- FLIGHT CHARACTERISTICS

### ∞ CEILINGS

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*
- RT CEILING (AIRCRAFT CAPABILITY)
- CEILINGS (ARCHITECTURE)
- CEILINGS (METEOROLOGY)

### CEILOMETERS

- USE CLOUD HEIGHT INDICATORS

### CELESTIAL NAVIGATION

- GS NAVIGATION
- CELESTIAL NAVIGATION
- ASTROGUIDE NAVIGATION SYSTEM
- ASTRONAVIGATION
- RT AIR NAVIGATION
- AUTONOMOUS NAVIGATION
- CCD STAR TRACKER
- INERTIAL NAVIGATION
- INJECTION GUIDANCE
- INTERPLANETARY NAVIGATION
- POLAR NAVIGATION
- RADAR NAVIGATION
- RADIO NAVIGATION
- REFERENCE STARS
- SOLAR POSITION
- SPACE NAVIGATION
- SPACECRAFT GUIDANCE
- STAR TRACKERS
- SURFACE NAVIGATION

### CELESTIAL REFERENCE SYSTEMS

- RT AIR NAVIGATION
- ASTRONOMICAL COORDINATES
- ASTRONOMICAL MAPS
- AZIMUTH
- COORDINATES
- GEOCENTRIC COORDINATES
- INERTIAL REFERENCE SYSTEMS
- INTERPLANETARY NAVIGATION
- INTERSTELLAR TRAVEL
- PLANETOCENTRIC COORDINATES
- ∞ REFERENCE SYSTEMS
- SOLAR LONGITUDE
- SPHERICAL COORDINATES
- ∞ SYSTEMS

### CEMS SYSTEM

- USE CENTRAL ELECTRONIC MANAGEMENT SYSTEM

### CENTAUR LAUNCH VEHICLE

- UF CENTAUR VEHICLE
- GS LAUNCH VEHICLES
- CENTAUR LAUNCH VEHICLE
- ATLAS CENTAUR LAUNCH VEHICLE
- ROCKET VEHICLES
- CENTAUR LAUNCH VEHICLE
- ATLAS CENTAUR LAUNCH VEHICLE
- RT ATLAS D ICBM
- LIQUID PROPELLANT ROCKET ENGINES
- SATURN PROJECT
- TITAN CENTAUR LAUNCH VEHICLE

### CENTAUR VEHICLE

- USE CENTAUR LAUNCH VEHICLE

### CENTER OF PRESSURE

- RT ∞ CENTERS
- HYDROSTATIC PRESSURE
- MOMENTS OF INERTIA
- PRESSURE
- PRESSURE DISTRIBUTION
- PRESSURE HEADS

### CENTERBODIES

- RT AFTERBODIES
- AIRCRAFT STRUCTURES
- ∞ BODIES
- CYLINDRICAL BODIES
- FOREBODIES
- FUSELAGES

### CENTRAL ELECTRONIC MANAGEMENT SYSTEM

- UF CEMS SYSTEM
- GS DATA PROCESSING
- CENTRAL ELECTRONIC MANAGEMENT SYSTEM
- RT MANAGEMENT
- ∞ SYSTEMS

### CENTRIFUGAL COMPRESSORS

- GS COMPRESSORS
- CENTRIFUGAL COMPRESSORS
- TURBOMACHINERY
- CENTRIFUGAL COMPRESSORS
- RT BLOWERS
- COMPRESSOR BLADES
- COMPRESSOR ROTORS
- IMPELLERS
- PUMP IMPELLERS
- PUMPS
- RADIAL FLOW
- ROTORS
- SUPERCHARGERS
- TURBOCOMPRESSORS

### CENTURION AIRCRAFT

- USE CESSNA 210 AIRCRAFT

### CESSNA AIRCRAFT

- GS CESSNA AIRCRAFT
- A-37 AIRCRAFT
- CESSNA L-19 AIRCRAFT
- CESSNA 172 AIRCRAFT
- CESSNA 205 AIRCRAFT
- CESSNA 210 AIRCRAFT
- CESSNA 402B AIRCRAFT
- T-37 AIRCRAFT
- RT ∞ AIRCRAFT

### CESSNA L-19 AIRCRAFT

- GS CESSNA AIRCRAFT
- CESSNA L-19 AIRCRAFT
- LIGHT AIRCRAFT
- CESSNA L-19 AIRCRAFT
- MONOPLANES
- CESSNA L-19 AIRCRAFT
- OBSERVATION AIRCRAFT
- CESSNA L-19 AIRCRAFT
- RECONNAISSANCE AIRCRAFT
- CESSNA L-19 AIRCRAFT
- RT ∞ AIRCRAFT

### CESSNA MILITARY AIRCRAFT

- USE MILITARY AIRCRAFT

### CESSNA 172 AIRCRAFT

- GS CESSNA AIRCRAFT
- CESSNA 172 AIRCRAFT
- GENERAL AVIATION AIRCRAFT
- CESSNA 172 AIRCRAFT
- LIGHT AIRCRAFT
- CESSNA 172 AIRCRAFT
- MONOPLANES
- CESSNA 172 AIRCRAFT
- PASSENGER AIRCRAFT
- CESSNA 172 AIRCRAFT
- SINGLE ENGINE AIRCRAFT
- CESSNA 172 AIRCRAFT
- RT ∞ AIRCRAFT

### CESSNA 205 AIRCRAFT

- GS CESSNA AIRCRAFT
- CESSNA 205 AIRCRAFT
- GENERAL AVIATION AIRCRAFT
- CESSNA 205 AIRCRAFT
- LIGHT AIRCRAFT
- CESSNA 205 AIRCRAFT
- MONOPLANES
- CESSNA 205 AIRCRAFT
- PASSENGER AIRCRAFT
- CESSNA 205 AIRCRAFT
- SINGLE ENGINE AIRCRAFT
- CESSNA 205 AIRCRAFT
- RT ∞ AIRCRAFT

### CESSNA 210 AIRCRAFT

- UF CENTURION AIRCRAFT

### CESSNA 210 AIRCRAFT-(CONT.)

- GS CESSNA AIRCRAFT
- CESSNA 210 AIRCRAFT
- GENERAL AVIATION AIRCRAFT
- CESSNA 210 AIRCRAFT
- LIGHT AIRCRAFT
- CESSNA 210 AIRCRAFT
- MONOPLANES
- CESSNA 210 AIRCRAFT
- PASSENGER AIRCRAFT
- CESSNA 210 AIRCRAFT
- SINGLE ENGINE AIRCRAFT
- CESSNA 210 AIRCRAFT

### CESSNA 402B AIRCRAFT

- GS CESSNA AIRCRAFT
- CESSNA 402B AIRCRAFT
- GENERAL AVIATION AIRCRAFT
- CESSNA 402B AIRCRAFT
- LIGHT AIRCRAFT
- CESSNA 402B AIRCRAFT
- MONOPLANES
- CESSNA 402B AIRCRAFT
- PASSENGER AIRCRAFT
- CESSNA 402B AIRCRAFT
- TRANSPORT AIRCRAFT
- SHORT HAUL AIRCRAFT
- CESSNA 402B AIRCRAFT
- RT ∞ AIRCRAFT

### CF-104 AIRCRAFT

- USE CANADAIR AIRCRAFT
- F-104 AIRCRAFT

### CF-700 ENGINE

- GS ENGINES
- AIR BREATHING ENGINES
- GAS TURBINE ENGINES
- JET ENGINES
- TURBOJET ENGINES
- TURBOFAN ENGINES
- CF-700 ENGINE
- INTERNAL COMBUSTION ENGINES
- GAS TURBINE ENGINES
- JET ENGINES
- TURBOJET ENGINES
- TURBOFAN ENGINES
- CF-700 ENGINE
- TURBINE ENGINES
- GAS TURBINE ENGINES
- JET ENGINES
- TURBOJET ENGINES
- TURBOFAN ENGINES
- CF-700 ENGINE
- RT VERTICAL TAKEOFF AIRCRAFT

### CH-3 HELICOPTER

- GS PASSENGER AIRCRAFT
- CH-3 HELICOPTER
- SIKORSKY AIRCRAFT
- CH-3 HELICOPTER
- TRANSPORT AIRCRAFT
- CH-3 HELICOPTER
- V/STOL AIRCRAFT
- ROTARY WING AIRCRAFT
- HELICOPTERS
- MILITARY HELICOPTERS
- CH-3 HELICOPTER
- RIGID ROTOR HELICOPTERS
- CH-3 HELICOPTER
- RT S-61 HELICOPTER

### CH-34 HELICOPTER

- UF CHOCTAW HELICOPTER
- H-34 HELICOPTER
- GS SIKORSKY AIRCRAFT
- CH-34 HELICOPTER
- TRANSPORT AIRCRAFT
- CH-34 HELICOPTER
- V/STOL AIRCRAFT
- ROTARY WING AIRCRAFT
- HELICOPTERS
- MILITARY HELICOPTERS
- CH-34 HELICOPTER
- RT S-58 HELICOPTER

### CH-46 HELICOPTER

- UF CH-113 HELICOPTER
- HRB-1 HELICOPTER
- SEA KNIGHT HELICOPTER
- VOYAGEUR HELICOPTER
- GS BOEING AIRCRAFT
- CH-46 HELICOPTER
- PASSENGER AIRCRAFT
- CH-46 HELICOPTER

**CH-46 HELICOPTER-(CONT.)**

TRANSPORT AIRCRAFT  
 . **CH-46 HELICOPTER**  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . **CH-46 HELICOPTER**  
 . . . . TANDEM ROTOR HELICOPTERS  
 . . . . **CH-46 HELICOPTER**

**CH-47 HELICOPTER**

UF CHINOOK HELICOPTER  
 HC-1 HELICOPTER  
 GS BOEING AIRCRAFT  
 . **CH-47 HELICOPTER**  
 PASSENGER AIRCRAFT  
 . **CH-47 HELICOPTER**  
 TRANSPORT AIRCRAFT  
 . **CH-47 HELICOPTER**  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . **CH-47 HELICOPTER**  
 . . . . TANDEM ROTOR HELICOPTERS  
 . . . . **CH-47 HELICOPTER**

**CH-53 HELICOPTER**

USE H-53 HELICOPTER

**CH-54 HELICOPTER**

UF S-64 HELICOPTER  
 SIKORSKY S-64 HELICOPTER  
 SKYCRANE HELICOPTER  
 GS PASSENGER AIRCRAFT  
 . **CH-54 HELICOPTER**  
 SIKORSKY AIRCRAFT  
 . **CH-54 HELICOPTER**  
 TRANSPORT AIRCRAFT  
 . **CH-54 HELICOPTER**  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . **CH-54 HELICOPTER**

**CH-62 HELICOPTER**

GS BOEING AIRCRAFT  
 . **CH-62 HELICOPTER**  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . HEAVY LIFT HELICOPTERS  
 . . . . . **CH-62 HELICOPTER**  
 RT  $\infty$  MILITARY AIRCRAFT

**CHAINS**

SN (EXCLUDES CHEMICAL BONDS AND  
 NUCLEAR REACTIONS)  
 RT  $\infty$  BARRIERS  
 CABLES (ROPES)  
 FASTENERS  
 $\infty$  LINKS  
 MOLECULAR CHAINS

**CHAIRS**

USE SEATS

**CHALLENGER (ORBITER)**

UF SPACE SHUTTLE ORBITER 099  
 GS MANNED SPACECRAFT  
 . SPACE SHUTTLE ORBITERS  
 . . **CHALLENGER (ORBITER)**  
 REENTRY VEHICLES  
 . RECOVERABLE SPACECRAFT  
 . . REUSABLE SPACECRAFT  
 . . . SPACE SHUTTLE ORBITERS  
 . . . . **CHALLENGER (ORBITER)**  
 RT ENDEAVOUR (ORBITER)  
 SPACE SHUTTLE MISSION 31-B  
 SPACE SHUTTLE MISSION 31-C  
 SPACE SHUTTLE MISSION 31-D  
 SPACE SHUTTLE MISSION 41-B  
 SPACE SHUTTLE MISSION 41-C  
 SPACE SHUTTLE MISSION 41-G  
 SPACE SHUTTLE MISSION 51-B  
 SPACE SHUTTLE MISSION 51-E  
 SPACE SHUTTLE MISSION 51-F  
 SPACE SHUTTLE MISSION 51-L  
 SPACE SHUTTLE MISSION 61-A  
 $\infty$  SPACECRAFT

$\infty$  **CHAMBERS**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)  
 RT ANECHOIC CHAMBERS  
 ARC CHAMBERS  
 BUBBLE CHAMBERS  
 CLOUD CHAMBERS  
 COMBUSTION CHAMBERS  
 CYLINDRICAL CHAMBERS  
 FLEXING  
 FLOW CHAMBERS  
 HYPERBARIC CHAMBERS  
 IONIZATION CHAMBERS  
 PLENUM CHAMBERS  
 PRESSURE CHAMBERS  
 REVERBERATION CHAMBERS  
 SPARK CHAMBERS  
 TEST CHAMBERS  
 THRUST CHAMBERS  
 VACUUM CHAMBERS

**CHANCE-VOUGHT AIRCRAFT**

UF CHANCE-VOUGHT MILITARY AIRCRAFT  
 RT  $\infty$  AIRCRAFT

**CHANCE-VOUGHT MILITARY AIRCRAFT**

USE CHANCE-VOUGHT AIRCRAFT  
 MILITARY AIRCRAFT

**CHANDRASEKHAR EQUATION**

GS ANALYSIS (MATHEMATICS)  
 . REAL VARIABLES  
 . . DIFFERENTIAL EQUATIONS  
 . . . **CHANDRASEKHAR EQUATION**  
 RT ELECTROMAGNETIC ABSORPTION  
 $\infty$  EQUATIONS

**CHANNEL FLOW**

GS FLUID FLOW  
 . **CHANNEL FLOW**  
 . . OPEN CHANNEL FLOW  
 RT ANNULAR FLOW  
 CORNER FLOW  
 DREDGED MATERIALS  
 DUCTED FLOW  
 FLOW GEOMETRY  
 FLUID INJECTION  
 INCOMPRESSIBLE FLUIDS  
 OUTLET FLOW  
 PIPE FLOW  
 WALL FLOW

**CHANNEL WINGS**

GS AIRFOILS  
 . WINGS  
 . . **CHANNEL WINGS**  
 PLANFORMS  
 . WING PLANFORMS  
 . . **CHANNEL WINGS**  
 RT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT DESIGN  
 AIRCRAFT PARTS  
 AIRCRAFT STRUCTURES

$\infty$  **CHANNELS**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)  
 RT CHANNELS (DATA TRANSMISSION)  
 COMPUTER STORAGE DEVICES  
 DREDGED MATERIALS  
 DUCTS  
 FREQUENCIES  
 MEDIA  
 PARALLEL PLATES  
 STRUCTURAL MEMBERS  
 TELECOMMUNICATION  
 THROATS

**CHAPARRAL MISSILE**

GS MISSILES  
 . SURFACE TO AIR MISSILES  
 . . **CHAPARRAL MISSILE**  
 RT SPACE WEAPONS

**CHAPLYGIN EQUATION**

GS FLOW EQUATIONS  
 . **CHAPLYGIN EQUATION**  
 RT  $\infty$  EQUATIONS  
 HODOGRAPHS  
 VECTOR SPACES

**CHAPMAN SHEAR LAYER**

USE SHEAR LAYERS

**CHAPMAN-ENSKOG THEORY**

UF ENSKOG-CHAPMAN THEORY  
 GS KINETIC THEORY  
 . TRANSPORT THEORY  
 . . **CHAPMAN-ENSKOG THEORY**  
 RT BOLTZMANN TRANSPORT EQUATION  
 DISTRIBUTION FUNCTIONS  
 FLOW DISTRIBUTION  
 MONATOMIC GASES  
 RAREFIED GAS DYNAMICS  
 TEMPERATURE GRADIENTS  
 $\infty$  THEORIES  
 THERMAL DIFFUSION

**CHAPMAN-JOUGET FLAME**

USE CHEMICAL EQUILIBRIUM  
 DETONATION  
 FLAME PROPAGATION

**CHARACTERISTIC METHOD**

USE METHOD OF CHARACTERISTICS

**CHARTS**

GS **CHARTS**  
 . FLOW CHARTS  
 . GRAPHS (CHARTS)  
 . . BOND GRAPHS  
 . . GOMPERTZ CURVES  
 . . MOLLIER DIAGRAM  
 . . PATTERSON MAP  
 . . METEOROLOGICAL CHARTS  
 . NAUTICAL CHARTS  
 RT BLOCK DIAGRAMS  
 DIAGRAMS  
 DISPLAY DEVICES  
 DRAWINGS  
 GRAPHIC ARTS  
 MAPS  
 NAVIGATION AIDS  
 NOMOGRAPHS  
 $\infty$  PLOTS  
 STATISTICAL ANALYSIS  
 STATISTICAL TESTS  
 VISUAL AIDS

**CHEBYSHEV APPROXIMATION**

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . APPROXIMATION  
 . . . **CHEBYSHEV APPROXIMATION**  
 RT SERIES (MATHEMATICS)  
 STATISTICAL ANALYSIS

**CHECKOUT**

SN (SEQUENCE OF TESTS TO DETERMINE  
 FUNCTIONAL READINESS OF  
 EQUIPMENT)  
 UF DEBUGGING  
 RT AIRCRAFT MAINTENANCE  
 CEFOAM CHECKOUT EQUIPMENT  
 CERTIFICATION  
 COLD FLOW TESTS  
 COUNTDOWN  
 FILE MAINTENANCE (COMPUTERS)  
 INSPECTION  
 MAINTENANCE  
 PERFORMANCE TESTS  
 PREFIRING TESTS  
 PROGRAM VERIFICATION (COMPUTERS)  
 SELF TESTS  
 SPACE VEHICLE CHECKOUT PROGRAM  
 SPACECRAFT MAINTENANCE  
 $\infty$  TEST EQUIPMENT  
 $\infty$  TESTS

**CHECKOUT EQUIPMENT**

USE TEST EQUIPMENT

**CHEMICAL EXPLOSIONS**

GS EXPLOSIONS  
 . **CHEMICAL EXPLOSIONS**  
 . . GAS EXPLOSIONS  
 RT AERIAL EXPLOSIONS  
 COMBUSTION  
 DETONABLE GAS MIXTURES  
 DETONATION  
 EXPLOSIVES  
 FLAMMABLE GASES  
 UNDERGROUND EXPLOSIONS  
 UNDERWATER EXPLOSIONS

## CHEMICAL EXTINGUISHERS

**CHEMICAL EXTINGUISHERS**  
USE FIRE EXTINGUISHERS

### CHEMICAL FUELS

GS FUELS  
     **CHEMICAL FUELS**  
     . . . ENDOTHERMIC FUELS  
     . . . HIGH ENERGY FUELS  
     . . . HYDROCARBON FUELS  
     . . . DIESEL FUELS  
     . . . GASOLINE  
     . . . JET ENGINE FUELS  
     . . . JP-4 JET FUEL  
     . . . JP-5 JET FUEL  
     . . . JP-6 JET FUEL  
     . . . JP-8 JET FUEL  
     . . . LIQUEFIED NATURAL GAS  
     . . . SYNTHANE  
     . . . LIQUID FUELS  
     . . . AIRCRAFT FUELS  
     . . . ANTIMISTING FUELS  
     . . . AUTOMOBILE FUELS  
     . . . DIESEL FUELS  
     . . . GASOLINE  
     . . . HYDROGEN FUELS  
     . . . JET ENGINE FUELS  
     . . . JP-4 JET FUEL  
     . . . JP-5 JET FUEL  
     . . . JP-6 JET FUEL  
     . . . JP-8 JET FUEL  
     . . . KEROSENE  
     . . . METAL FUELS  
     . . . SYNTHETIC FUELS  
     . . . GASOLIN (FUEL)  
     . . . SYNTHANE  
 RT CLEAN FUELS  
     EXPLOSIVES  
     FUEL PRODUCTION  
     GELLED PROPELLANTS  
     GELLED ROCKET PROPELLANTS  
     HYBRID PROPELLANTS  
     MONOPROPELLANTS  
     PLASTIC PROPELLANTS  
     PROPELLANTS  
     PYROTECHNICS  
     SOLID PROPELLANTS

### CHEMICAL PROPULSION

UF CHEMONUCLEAR PROPULSION  
 GS PROPULSION  
     **CHEMICAL PROPULSION**  
     . . . HYBRID PROPULSION  
 RT JET PROPULSION  
     MARINE PROPULSION  
     SPACECRAFT PROPULSION  
     UNDERWATER PROPULSION

**CHEMONUCLEAR PROPULSION**  
 USE CHEMICAL PROPULSION  
     NUCLEAR PROPULSION

**CHILLING**  
 USE COOLING

**CHINESE AIRCRAFT**  
 RT ∞ AIRCRAFT  
     CHINA

**CHINESE SPACE PROGRAM**  
 GS PROGRAMS  
     . . . SPACE PROGRAMS  
     . . . **CHINESE SPACE PROGRAM**  
 RT CHINA  
     ∞ RESEARCH PROJECTS  
     SPACE MISSIONS  
     TAIWAN

**CHINOOK HELICOPTER**  
 USE CH-47 HELICOPTER

**CHOCTAW HELICOPTER**  
 USE CH-34 HELICOPTER

**CHOKES**  
 SN (EXCLUDES FUEL SYSTEM AND  
     ELECTRONIC DEVICES)  
 RT CHOKES (RESTRICTIONS)  
     ∞ DIFFUSERS  
     ELECTRIC COILS  
     MIXING  
     NOZZLE INSERTS  
     ∞ NOZZLES

### CHOKES (FUEL SYSTEMS)

RT CARBURETORS  
     FUEL SYSTEMS  
     ORIFICES  
     ∞ SYSTEMS

### CHOKES (RESTRICTIONS)

RT CHOKES (FUEL SYSTEMS)  
     CLOSURES  
     CONSTRICTIONS  
     IMPEDANCE  
     ∞ NOZZLES  
     ORIFICES  
     THROATS  
     VALVES

### CHORDS (GEOMETRY)

UF AERODYNAMIC CHORDS  
 GS GEOMETRY  
     . . . EUCLIDEAN GEOMETRY  
     . . . LINES (GEOMETRY)  
     . . . **CHORDS (GEOMETRY)**  
 RT CURVES (GEOMETRY)  
     GEODESIC LINES  
     TANGENTS

### CHRONOGRAPHS

USE CHRONOMETERS

### CHRONOMETERS

UF CHRONOGRAPHS  
 GS MEASURING INSTRUMENTS  
     . . . TIME MEASURING INSTRUMENTS  
     . . . CLOCKS  
     . . . **CHRONOMETERS**  
 RT ATOMIC CLOCKS  
     CLOCK PARADOX  
     TIME MEASUREMENT  
     TIMING DEVICES

### CHRONOPHOTOGRAPHY

UF TIME LAPSE PHOTOGRAPHY  
 GS IMAGERY  
     . . . **CHRONOPHOTOGRAPHY**  
     . . . PHOTOGRAPHY  
     . . . **CHRONOPHOTOGRAPHY**  
 RT BLACK AND WHITE PHOTOGRAPHY  
     MOTION PICTURES

### CHUGGING

USE COMBUSTION STABILITY

### CINEFLUOROGRAPHY

USE MOTION PICTURES  
     RADIOGRAPHY

### CINEMATOGRAPHY

GS IMAGERY  
     . . . **CINEMATOGRAPHY**  
     . . . PHOTOGRAPHY  
     . . . **CINEMATOGRAPHY**  
 RT ANIMATION  
     BLACK AND WHITE PHOTOGRAPHY  
     CAMERAS  
     COLOR PHOTOGRAPHY  
     INFRARED PHOTOGRAPHY  
     MOTION PICTURES  
     STEREOPHOTOGRAPHY  
     STREAK CAMERAS  
     VIDEO TAPES

### CINERADIOGRAPHY

USE MOTION PICTURES  
     RADIOGRAPHY

### CIRCULAR CONES

GS CONES  
     . . . **CIRCULAR CONES**  
 RT HALF CONES  
     NOSE CONES

### CIRCULAR CYLINDERS

RT ∞ CYLINDERS  
     CYLINDRICAL BODIES  
     CYLINDRICAL SHELLS  
     ELLIPTICAL CYLINDERS

### CIRCULATION

UF RECIRCULATION  
 GS **CIRCULATION**  
     . . . ATMOSPHERIC CIRCULATION  
     . . . ZONAL FLOW (METEOROLOGY)  
     . . . BLOOD CIRCULATION  
     . . . BRAIN CIRCULATION

### CIRCULATION-(CONT.)

. . . CORONARY CIRCULATION  
     . . . INTERCRANIAL CIRCULATION  
     . . . INTRAVASCULAR SYSTEM  
     . . . OCULAR CIRCULATION  
     . . . PERIPHERAL CIRCULATION  
     . . . PULMONARY CIRCULATION  
     . . . CARBOXYHEMOGLOBIN  
     . . . CONGESTION  
     . . . WATER CIRCULATION  
     . . . WATER CURRENTS  
     . . . OCEAN CURRENTS  
     . . . COASTAL CURRENTS  
     . . . EL NINO  
     . . . GULF STREAM  
     . . . LOMONOSOV CURRENT  
 RT ARTIFICIAL CARDIAC PACEMAKER  
     BLOOD  
     BLOOD PUMPS  
     BLOWING  
     CIRCULATION DISTRIBUTION  
     ∞ CURRENTS  
     DELIVERY  
     DIFFUSION  
     DISPERSING  
     HEART IMPLANTATION  
     PURGING  
     ROTATION

### CIRCULATION CONTROL AIRFOILS

GS AIRFOILS  
     . . . **CIRCULATION CONTROL AIRFOILS**  
     . . . CIRCULATION CONTROL ROTORS  
 RT BLOWING  
     BOUNDARY LAYER CONTROL  
     COANDA EFFECT  
     ∞ CONTROL  
     LIFT AUGMENTATION  
     SHORT TAKEOFF AIRCRAFT  
     UNDER SURFACE BLOWING  
     UPPER SURFACE BLOWING

### CIRCULATION CONTROL ROTORS

GS AIRFOILS  
     . . . CIRCULATION CONTROL AIRFOILS  
     . . . **CIRCULATION CONTROL ROTORS**  
     . . . WINGS  
     . . . ROTARY WINGS  
     . . . **CIRCULATION CONTROL ROTORS**  
     . . . ROTATING BODIES  
     . . . ROTORS  
     . . . ROTARY WINGS  
     . . . **CIRCULATION CONTROL ROTORS**  
 RT ∞ CONTROL  
     VERTICAL TAKEOFF AIRCRAFT  
     X WING ROTORS

### CIRCULATORS (PHASE SHIFT CIRCUITS)

GS CIRCUITS  
     . . . PHASE SHIFT CIRCUITS  
     . . . **CIRCULATORS (PHASE SHIFT CIRCUITS)**  
 RT CAVITY RESONATORS  
     DELAY CIRCUITS  
     DUPLEXERS  
     FARADAY EFFECT  
     HALL GENERATORS  
     LIMITER CIRCUITS

### CIVIL AVIATION

UF COMMERCIAL AVIATION  
 RT ∞ AERONAUTICS  
     AIR LAW  
     AIRLINE OPERATIONS  
     AVIATION METEOROLOGY  
     COMMERCIAL AIRCRAFT  
     GENERAL AVIATION AIRCRAFT  
     PASSENGER AIRCRAFT

### CL-41 AIRCRAFT

UF CANADAIR CL-41 AIRCRAFT  
     CT-114 AIRCRAFT  
     TUTOR AIRCRAFT  
 GS ATTACK AIRCRAFT  
     . . . **CL-41 AIRCRAFT**  
     . . . CANADAIR AIRCRAFT  
     . . . **CL-41 AIRCRAFT**  
     . . . GENERAL DYNAMICS AIRCRAFT  
     . . . **CL-41 AIRCRAFT**  
     . . . JET AIRCRAFT  
     . . . **CL-41 AIRCRAFT**  
     . . . MONOPLANES  
     . . . **CL-41 AIRCRAFT**  
     . . . TRAINING AIRCRAFT  
     . . . **CL-41 AIRCRAFT**

**CL-41 AIRCRAFT-(CONT.)**

RT ∞ AIRCRAFT

**CL-44 AIRCRAFT**

UF CANADAIR CL-44 AIRCRAFT  
 CC-106 AIRCRAFT  
 YUKON AIRCRAFT  
 GS CANADAIR AIRCRAFT  
 . CL-44 AIRCRAFT  
 GENERAL DYNAMICS AIRCRAFT  
 . CL-44 AIRCRAFT  
 JET AIRCRAFT  
 . TURBOPROP AIRCRAFT  
 . . CL-44 AIRCRAFT  
 MONOPLANES  
 . CL-44 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . CARGO AIRCRAFT  
 . CL-44 AIRCRAFT  
 RT ∞ AIRCRAFT

**CL-84 AIRCRAFT**

UF CANADAIR CL-84 AIRCRAFT  
 GS ANTISUBMARINE WARFARE AIRCRAFT  
 . CL-84 AIRCRAFT  
 CANADAIR AIRCRAFT  
 . CL-84 AIRCRAFT  
 GENERAL DYNAMICS AIRCRAFT  
 . CL-84 AIRCRAFT  
 JET AIRCRAFT  
 . TURBOPROP AIRCRAFT  
 . . CL-84 AIRCRAFT  
 OBSERVATION AIRCRAFT  
 . CL-84 AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 . CL-84 AIRCRAFT  
 TILT WING AIRCRAFT  
 . CL-84 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . CL-84 AIRCRAFT  
 V/STOL AIRCRAFT  
 . CL-84 AIRCRAFT  
 RT ∞ AIRCRAFT

**CLARK Y AIRFOIL**

USE AIRFOIL PROFILES

**CLASSIC AIRCRAFT**

USE IL-62 AIRCRAFT

**CLEAN FUELS**

GS FUELS  
 . CLEAN FUELS  
 . . FUEL OILS  
 RT BENEFICIATION  
 CHEMICAL FUELS  
 HYDROCARBON FUELS  
 POLLUTION  
 REFINING  
 SYNTHETIC FUELS

**CLEAR AIR TURBULENCE**

GS TURBULENCE  
 . ATMOSPHERIC TURBULENCE  
 . . CLEAR AIR TURBULENCE  
 RT AVIATION METEOROLOGY  
 GUSTS  
 JET STREAMS (METEOROLOGY)  
 THERMAL INSTABILITY  
 TURBULENT DIFFUSION  
 WIND SHEAR

**CLEARANCES**

RT ADJUSTING  
 ALIGNMENT  
 ALLOWANCES  
 DATUM (ELEVATION)  
 SPACING  
 TIGHTNESS  
 TOLERANCES (MECHANICS)

**CLEARINGS (OPENINGS)**

UF SLASHES  
 RT DEFORESTATION  
 FIREBREAKS  
 FORESTS  
 TREES (PLANTS)

**CLIMBING FLIGHT**

GS ASCENT  
 . CLIMBING FLIGHT  
 RT ASCENT TRAJECTORIES  
 COASTING FLIGHT  
 ∞ FLIGHT

**CLIMBING FLIGHT-(CONT.)**

FLIGHT PATHS  
 HORIZONTAL FLIGHT  
 PARABOLIC FLIGHT  
 ROCKET FLIGHT  
 SOARING  
 TAKEOFF  
 TURNING FLIGHT  
 VERTICAL FLIGHT

**CLOCKS**

UF WATCHES  
 GS MEASURING INSTRUMENTS  
 . TIME MEASURING INSTRUMENTS  
 . . CLOCKS  
 . . . ATOMIC CLOCKS  
 . . . AUTONOMOUS SPACECRAFT  
 . . . CLOCKS  
 . . . CHRONOMETERS  
 RT TIME MEASUREMENT  
 TIMING DEVICES

**CLOSED CIRCUIT TELEVISION**

GS COMMUNICATION EQUIPMENT  
 . CLOSED CIRCUIT TELEVISION  
 TELECOMMUNICATION  
 . CLOSED CIRCUIT TELEVISION  
 TELEVISION SYSTEMS  
 . CLOSED CIRCUIT TELEVISION  
 RT COLOR TELEVISION  
 EDUCATIONAL TELEVISION  
 STEREOTELEVISION  
 TELEVISION CAMERAS  
 TELEVISION RECEIVERS  
 TELEVISION TRANSMISSION  
 WIRELESS COMMUNICATION

**CLOSED CYCLES**

SN (EXCLUDES CLOSED LOOP CONTROL  
 SYSTEMS)  
 RT CONTROL THEORY  
 COOLING SYSTEMS  
 ELECTRIC GENERATORS  
 GAS TURBINES  
 LOOPS  
 NUCLEAR REACTORS  
 PLASMA GENERATORS  
 THERMAL CYCLING TESTS  
 THERMODYNAMIC CYCLES

**CLOSED LOOP SYSTEMS**

USE FEEDBACK CONTROL

**CLOSURE LAW**

GS LAWS  
 . CLOSURE LAW  
 RT FIELD THEORY (PHYSICS)  
 K-EPSILON TURBULENCE MODEL  
 STATISTICAL MECHANICS  
 TURBULENT FLOW

**CLOUD HEIGHT INDICATORS**

UF CEILOMETERS  
 GS MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . CLOUD HEIGHT INDICATORS  
 . . METEOROLOGICAL INSTRUMENTS  
 . . CLOUD HEIGHT INDICATORS  
 RT CEILINGS (METEOROLOGY)

**CNOIDAL WAVES**

RT ELASTIC WAVES  
 GRAVITY WAVES  
 SHALLOW WATER  
 SOLITARY WAVES  
 SURFACE WAVES  
 WATER DEPTH  
 WATER WAVES  
 ∞ WAVES

**COALESCENCE**

USE COALESCING

**COALESCING**

UF COALESCENCE  
 RT AGGLOMERATION  
 AGITATION  
 COAGULATION  
 CONCENTRATING  
 FLOCCULATING  
 MIXERS  
 ∞ SEPARATION  
 SETTLING  
 THICKENERS (EQUIPMENT)

**COANDA EFFECT**

RT ∞ ATTACHMENT  
 BUBBLES  
 CIRCULATION CONTROL AIRFOILS  
 ∞ EFFECTS  
 ENTRAINMENT  
 FLUID AMPLIFIERS  
 JET AMPLIFIERS  
 JET STREAMS (METEOROLOGY)  
 REATTACHED FLOW  
 ∞ SEPARATION  
 THRUST AUGMENTATION

**COASTING FLIGHT**

RT ASCENT TRAJECTORIES  
 BALLISTIC TRAJECTORIES  
 CLIMBING FLIGHT  
 CRUISING FLIGHT  
 DESCENT TRAJECTORIES  
 ∞ FLIGHT  
 MIDCOURSE TRAJECTORIES  
 PARABOLIC FLIGHT  
 ROCKET FLIGHT  
 SOARING

**COAXIAL FLOW**

GS FLUID FLOW  
 . COAXIAL FLOW  
 RT ANNULAR FLOW  
 ANNULAR NOZZLES  
 AXIAL FLOW  
 AXISYMMETRIC FLOW  
 FLOW GEOMETRY  
 HILSCH TUBES  
 SHEAR FLOW  
 STRATIFIED FLOW  
 TWO DIMENSIONAL FLOW

**COAXIAL NOZZLES**

RT AIRCRAFT NOISE  
 AXIAL FLOW  
 FLUID FLOW  
 NOISE REDUCTION  
 NOZZLE GEOMETRY  
 ∞ NOZZLES  
 SUPERSONIC NOZZLES  
 VARIABLE CYCLE ENGINES

**COCK AIRCRAFT**

USE AN-22 AIRCRAFT

**COCKPIT SIMULATORS**

GS SIMULATORS  
 . TRAINING SIMULATORS  
 . . FLIGHT SIMULATORS  
 . . . COCKPIT SIMULATORS  
 RT SPACECRAFT CABIN SIMULATORS  
 TRAINING DEVICES

**COCKPITS**

RT AIRCRAFT COMPARTMENTS  
 CABIN ATMOSPHERES  
 ∞ CABINS  
 CANOPIES  
 EJECTION SEATS  
 FLYING EJECTION SEATS  
 FUSELAGES  
 PRESSURIZED CABINS  
 SPACE CAPSULES  
 SPACECRAFT CABIN ATMOSPHERES  
 SPACECRAFT CABINS  
 WINDSHIELDS

**COD AIRCRAFT**

USE C-2 AIRCRAFT

**COIN AIRCRAFT**

UF LARA AIRCRAFT  
 LIGHT ARMED RECONNAISSANCE  
 AIRCRAFT  
 GS COIN AIRCRAFT  
 . F-5 AIRCRAFT  
 . OV-10 AIRCRAFT  
 RT ∞ AIRCRAFT  
 LIGHT INTRATHEATER TRANSPORT

**COKE AIRCRAFT**

USE AN-24 AIRCRAFT

**COLD FLOW TESTS**

SN (EXCLUDES MECHANICAL CREEP, TESTS)  
 GS ENGINE TESTS  
 . COLD FLOW TESTS  
 GROUND TESTS

## COLD GAS

### COLD FLOW TESTS-(CONT.)

RT . COLD FLOW TESTS  
CHECKOUT  
FEED SYSTEMS  
PLASTIC PROPERTIES  
PRELAUNCH TESTS  
PROPELLANT TESTS  
PROPULSION SYSTEM PERFORMANCE  
ROCKET ENGINE DESIGN  
STATIC TESTS  
∞ TESTS

### COLD GAS

GS GASES  
RT . COLD GAS  
ATTITUDE CONTROL  
GAS JETS  
JET THRUST

### COLD WEATHER TESTS

GS ENVIRONMENTAL TESTS  
RT . COLD WEATHER TESTS  
HIGH TEMPERATURE TESTS  
LOW TEMPERATURE TESTS  
∞ TESTS

### COLLISION AVOIDANCE

UF COLLISION WARNING DEVICES  
GS AVOIDANCE  
RT . COLLISION AVOIDANCE  
BEACON COLLISION AVOIDANCE  
SYSTEM  
AIR NAVIGATION  
AIR TRAFFIC  
AIR TRAFFIC CONTROL  
AIRCRAFT APPROACH SPACING  
AIRCRAFT GUIDANCE  
AIRCRAFT SAFETY  
AIRSPACE  
APPROACH CONTROL  
AUTOMATIC TRAFFIC ADVISORY AND  
RESOLUTION  
COLLISIONS  
FLIGHT PATHS  
FLIGHT RULES  
FLIGHT SAFETY  
MIDAIR COLLISIONS  
NATIONAL AIRSPACE UTILIZATION  
SYSTEM  
RADAR  
RADAR NAVIGATION  
RADIO NAVIGATION  
THREAT EVALUATION  
TRAFFIC CONTROL  
VISUAL FLIGHT  
WARNING  
WARNING SYSTEMS

### COLLISION PARAMETERS

GS RATES (PER TIME)  
RT . COLLISION PARAMETERS  
COLLISION RATES  
∞ ABSORPTION  
BEAM INTERACTIONS  
CROSS SECTIONS  
MEAN FREE PATH  
NUCLEAR INTERACTIONS  
PARTICLE INTERACTIONS  
PARTICLE THEORY  
SCATTERING

### COLLISION WARNING DEVICES

USE COLLISION AVOIDANCE  
WARNING SYSTEMS

### COLLOIDAL GENERATORS

RT ATOMIZING  
DISPERSIONS  
GENERATORS  
∞ PLASMA DIFFUSION  
PLASMA GENERATORS  
SPRAYERS  
VAPORIZERS

### COLUMBIA (ORBITER)

UF SPACE SHUTTLE ORBITER 102  
GS MANNED SPACECRAFT  
SPACE SHUTTLE ORBITERS  
COLUMBIA (ORBITER)  
REENTRY VEHICLES  
RECOVERABLE SPACECRAFT  
REUSABLE SPACECRAFT  
SPACE SHUTTLE ORBITERS  
COLUMBIA (ORBITER)  
RT MANNED SPACE FLIGHT

### COLUMBIA (ORBITER)-(CONT.)

SPACE SHUTTLE MISSION 31-A  
SPACE SHUTTLE MISSION 41-A  
SPACE SHUTTLE MISSION 61-A  
SPACE SHUTTLE MISSION 61-C  
SPACE SHUTTLE MISSION 61-E  
∞ SPACECRAFT

### COMBUSTIBILITY

USE FLAMMABILITY

### COMBUSTIBLE FLOW

GS FLUID FLOW  
RT . COMBUSTIBLE FLOW  
BOUNDARY LAYER COMBUSTION  
COMBUSTION PHYSICS  
COMBUSTION PRODUCTS  
DETONATION WAVES  
DUMP COMBUSTORS  
FLAME PROPAGATION  
FUEL FLOW  
TURBULENT FLOW

### COMBUSTION

UF BURNING  
GS BURNING PROCESS  
COMBUSTION  
AFTERBURNING  
BOUNDARY LAYER COMBUSTION  
DEFLAGRATION  
EROSIVE BURNING  
FUEL COMBUSTION  
NUCLEAR FUEL BURNUP  
HYDROCARBON COMBUSTION  
HYPERSONIC COMBUSTION  
METAL COMBUSTION  
PROPELLANT COMBUSTION  
SOLID PROPELLANT COMBUSTION  
SOLID PROPELLANT IGNITION  
SPONTANEOUS COMBUSTION  
SUPERSONIC COMBUSTION  
RT BACKFIRE  
BURNING RATE  
BURNING TIME  
BURNOUT  
CHARRING  
CHEMICAL EXPLOSIONS  
COMBUSTION CHAMBERS  
COMBUSTION CHEMISTRY  
COMBUSTION CONTROL  
COMBUSTION EFFICIENCY  
COMBUSTION PHYSICS  
COMBUSTION PRODUCTS  
COMBUSTION STABILITY  
COMBUSTION TEMPERATURE  
COMBUSTION VIBRATION  
DETONATION  
DIFFUSION FLAMES  
EXOTHERMIC REACTIONS  
EXPLOSIONS  
EXTINGUISHING  
FIRE DAMAGE  
FIREBREAKS  
FIRES  
FLAME PROPAGATION  
FLAMEOUT  
FLAMES  
FLAMMABILITY  
FLASHBACK  
FOREST FIRES  
HEAT BALANCE  
HEAT GENERATION  
IGNITION  
IGNITION LIMITS  
INCENDIARY AMMUNITION  
INTERNAL COMBUSTION ENGINES  
OXIDATION  
∞ PHYSICS  
QUENCHING (COOLING)  
SPARK IGNITION  
SUPERSONIC COMBUSTION RAMJET  
ENGINES

### COMBUSTION CHAMBERS

UF COMBUSTORS  
GS COMBUSTION CHAMBERS  
DUMP COMBUSTORS  
RT BURNERS  
CHAMBERS  
COMBUSTION  
ENGINE PARTS  
ENGINES  
FLAME HOLDERS  
FLAMEOUT  
FURNACES

### COMBUSTION CHAMBERS-(CONT.)

INTERNAL COMBUSTION ENGINES  
JET ENGINES  
PISTONS  
REFRACTORIES  
SPARK PLUGS  
THRUST CHAMBERS

### COMBUSTION CHEMISTRY

GS THERMOCHEMISTRY  
RT . COMBUSTION CHEMISTRY  
CHEMICAL ENGINEERING  
CHEMICAL REACTIONS  
∞ CHEMISTRY  
COMBUSTION  
COMBUSTION PHYSICS  
COMBUSTION PRODUCTS  
COMBUSTION STABILITY  
EXOTHERMIC REACTIONS  
FLAME TEMPERATURE  
OXIDATION  
REACTION KINETICS

### COMBUSTION CONTROL

RT AUTOMATIC CONTROL  
BURNING RATE  
COMBUSTION  
∞ CONTROL  
ENGINE CONTROL  
FUEL CONTROL  
∞ REACTION CONTROL  
TEMPERATURE CONTROL

### COMBUSTION EFFICIENCY

GS EFFICIENCY  
RT . COMBUSTION EFFICIENCY  
ACEE PROGRAM  
BURNING RATE  
BURNING TIME  
DUMP COMBUSTORS  
EXHAUST GASES  
FUEL COMBUSTION  
FUEL CONSUMPTION  
FUEL-AIR RATIO  
POWER EFFICIENCY  
PROPELLANT COMBUSTION  
PROPULSION SYSTEM PERFORMANCE  
PROPULSIVE EFFICIENCY  
THERMODYNAMIC EFFICIENCY

### COMBUSTION HEAT

USE HEAT OF COMBUSTION

### COMBUSTION INSTABILITY

USE COMBUSTION STABILITY

### COMBUSTION PHYSICS

GS THERMODYNAMICS  
RT . COMBUSTION PHYSICS  
AEROTHERMODYNAMICS  
COMBUSTIBLE FLOW  
COMBUSTION CHEMISTRY  
COMBUSTION STABILITY  
DAMKOLHER NUMBER  
FLAME PROPAGATION  
HEAT OF COMBUSTION  
IGNITION  
∞ PHYSICS  
PLASMAS (PHYSICS)  
∞ SCIENCE  
THERMOCHEMISTRY

### COMBUSTION PRODUCTS

RT AIR POLLUTION  
ASHES  
COMBUSTIBLE FLOW  
COMBUSTION CHEMISTRY  
DILUENTS  
DUST  
EXHAUST GASES  
FIBER RELEASE  
FLUE GASES  
FLY ASH  
HIGH TEMPERATURE GASES  
ODORS  
PARTICULATES  
POLLUTION TRANSPORT  
PRODUCTS  
REACTION PRODUCTS  
ROCKET EXHAUST  
SMOG  
SMOKE  
SOOT  
VAPORS  
WASTES

**COMBUSTION STABILITY**

UF ACOUSTIC COMBUSTION  
CHUGGING  
COMBUSTION INSTABILITY  
GS DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
COMBUSTION STABILITY  
FLAME STABILITY  
STABILITY  
DYNAMIC STABILITY  
COMBUSTION STABILITY  
FLAME STABILITY  
RT AXIAL MODES  
BURNING RATE  
COMBUSTION CHEMISTRY  
FUEL COMBUSTION  
MOTION STABILITY  
PRESSURE OSCILLATIONS  
PROPELLANT COMBUSTION  
SOLID PROPELLANT COMBUSTION  
THERMAL INSTABILITY  
VELOCITY COUPLING

**COMBUSTION TEMPERATURE**

GS TEMPERATURE  
COMBUSTION TEMPERATURE  
RT EROSION BURNING  
FLAME TEMPERATURE  
FLASH POINT  
IGNITION TEMPERATURE  
OPERATING TEMPERATURE  
SPONTANEOUS COMBUSTION

**COMBUSTION VIBRATION**

GS VIBRATION  
COMBUSTION VIBRATION  
RT COMBUSTION  
ELASTIC WAVES  
STRUCTURAL STABILITY

**COMBUSTION WAVES**

USE FLAME PROPAGATION

**COMBUSTION WIND TUNNELS**

GS TEST FACILITIES  
WIND TUNNELS  
COMBUSTION WIND TUNNELS  
RT HYPERSONIC WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS

**COMBUSTORS**

USE COMBUSTION CHAMBERS

**COMET 4 AIRCRAFT**

UF DE HAVILLAND DH 106 AIRCRAFT  
DH 106 AIRCRAFT  
GS COMMERCIAL AIRCRAFT  
COMET 4 AIRCRAFT  
DE HAVILLAND AIRCRAFT  
COMET 4 AIRCRAFT  
HAWKER SIDDELEY AIRCRAFT  
COMET 4 AIRCRAFT  
JET AIRCRAFT  
COMET 4 AIRCRAFT  
MONOPLANES  
COMET 4 AIRCRAFT  
PASSENGER AIRCRAFT  
COMET 4 AIRCRAFT  
RT AIRCRAFT

**COMMAND GUIDANCE**

UF COMMAND SYSTEMS  
GS GUIDANCE (MOTION)  
COMMAND GUIDANCE  
RT COMMANDS  
GROUND SUPPORT EQUIPMENT  
INJECTION GUIDANCE  
MIDCOURSE GUIDANCE  
RENDEZVOUS GUIDANCE  
RENDEZVOUS SPACECRAFT  
SPACECRAFT GUIDANCE  
TERMINAL GUIDANCE

**COMMAND SYSTEMS**

USE COMMAND GUIDANCE

**COMMANDO AIRCRAFT**

USE C-46 AIRCRAFT

**COMMANDS**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)  
RT AUTONOMY

**COMMANDS-(CONT.)**

COMMAND AND CONTROL  
COMMAND GUIDANCE  
COMMAND MODULES  
DECISIONS

**COMMERCIAL AIRCRAFT**

UF COMMERCIAL AVIATION  
GS COMMERCIAL AIRCRAFT  
BOEING 707 AIRCRAFT  
BOEING 720 AIRCRAFT  
BOEING 727 AIRCRAFT  
BOEING 733 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOEING 747 AIRCRAFT  
BOEING 757 AIRCRAFT  
BOEING 767 AIRCRAFT  
COMET 4 AIRCRAFT  
CV-340 AIRCRAFT  
CV-440 AIRCRAFT  
CV-880 AIRCRAFT  
CV-990 AIRCRAFT  
DC 3 AIRCRAFT  
DC 7 AIRCRAFT  
DC 8 AIRCRAFT  
DC 9 AIRCRAFT  
DC 10 AIRCRAFT  
DH 121 AIRCRAFT  
ELECTRA AIRCRAFT  
EUROPEAN AIRBUS  
A-300 AIRCRAFT  
A-310 AIRCRAFT  
A-320 AIRCRAFT  
F-28 TRANSPORT AIRCRAFT  
IL-62 AIRCRAFT  
JETSTREAM AIRCRAFT  
L-1011 AIRCRAFT  
LEAR JET AIRCRAFT  
LIGHT TRANSPORT AIRCRAFT  
P-180 AIRCRAFT  
SE-210 AIRCRAFT  
SUPERSONIC COMMERCIAL AIR  
TRANSPORT  
BOEING 2707 AIRCRAFT  
TU-144 AIRCRAFT  
TU-104 AIRCRAFT  
TU-124 AIRCRAFT  
TU-134 AIRCRAFT  
TU-154 AIRCRAFT  
VC-10 AIRCRAFT  
RT AIR TRANSPORTATION  
AIRCRAFT  
AIRLINE OPERATIONS  
CARGO AIRCRAFT  
CIVIL AVIATION  
COMMUTER AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
GROUND EFFECT MACHINES  
JET AIRCRAFT  
PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SUPERSONIC TRANSPORTS  
TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT  
V/STOL AIRCRAFT  
WATER TAKEOFF AND LANDING  
AIRCRAFT

**COMMERCIAL AVIATION**

USE CIVIL AVIATION  
COMMERCIAL AIRCRAFT

**COMMONALITY**

GS STANDARDIZATION  
COMMONALITY  
RT AIRCRAFT EQUIPMENT  
COST REDUCTION  
EFFICIENCY  
EQUIPMENT SPECIFICATIONS  
GROUND SUPPORT SYSTEMS  
SPACECRAFT COMPONENTS  
SPECIFICATIONS

**COMMUTER AIRCRAFT**

GS PASSENGER AIRCRAFT  
COMMUTER AIRCRAFT  
RT AIR TRANSPORTATION  
AIRCRAFT  
COMMERCIAL AIRCRAFT  
GENERAL AVIATION AIRCRAFT

**COMPARTMENTATION**

USE COMPARTMENTS

**COMPARTMENTS**

UF COMPARTMENTATION  
GS COMPARTMENTS  
AIR LOCKS  
AIRCRAFT COMPARTMENTS  
COMMAND MODULES  
PRESSURIZED CABINS  
SPACECRAFT CABINS  
TEST CHAMBERS  
ANECHOIC CHAMBERS  
PRESSURE CHAMBERS  
HYPERBARIC CHAMBERS  
VACUUM CHAMBERS  
REVERBERATION CHAMBERS  
RT BAYS (STRUCTURAL UNITS)  
CELLS  
CREW EXPERIMENT STATIONS  
CREW OBSERVATION STATIONS  
CREW WORKSTATIONS  
ENCLOSURES  
MODULES  
ROOMS  
SPACECRAFT MODULES

**COMPASSES**

GS MEASURING INSTRUMENTS  
INDICATING INSTRUMENTS  
COMPASSES  
GYROCOMPASSES  
MAGNETIC COMPASSES  
SOLAR COMPASSES  
NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
COMPASSES  
GYROCOMPASSES  
MAGNETIC COMPASSES  
SOLAR COMPASSES  
RT AIRCRAFT INSTRUMENTS  
BEACONS  
BUOYS  
FLIGHT INSTRUMENTS  
RADAR BEACONS  
RADIO DIRECTION FINDERS  
TRANSITS

**COMPONENT RELIABILITY**

GS RELIABILITY  
COMPONENT RELIABILITY  
RT AIRCRAFT RELIABILITY  
CIRCUIT RELIABILITY  
CUMULATIVE DAMAGE  
PROCESS CONTROL (INDUSTRY)  
QUALITY CONTROL  
RETIREMENT FOR CAUSE  
SPACECRAFT RELIABILITY  
STRUCTURAL RELIABILITY

**COMPOUND HELICOPTERS**

GS V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
COMPOUND HELICOPTERS  
RT AERONAUTICAL ENGINEERING  
AIR TRANSPORTATION  
AIRCRAFT  
AIRCRAFT CONFIGURATIONS  
AIRCRAFT DESIGN  
HELICOPTER DESIGN  
SHORT TAKEOFF AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT

**COMPRESSED AIR**

GS GASES  
GAS MIXTURES  
AIR  
COMPRESSED AIR  
MIXTURES  
SOLUTIONS  
GAS MIXTURES  
AIR  
COMPRESSED AIR  
RT COMPRESSORS  
DRILLS  
ENERGY STORAGE  
MAN OPERATED PROPULSION SYSTEMS  
OXYGEN SUPPLY EQUIPMENT  
PNEUMATIC EQUIPMENT  
PUMPING

**COMPRESSED GAS**

GS GASES  
COMPRESSED GAS  
HIGH PRESSURE OXYGEN  
RT COMPRESSORS  
GAS PRESSURE

## COMPRESSIBILITY EFFECTS

### COMPRESSED GAS-(CONT.) PNEUMATIC CONTROL

#### COMPRESSIBILITY EFFECTS

RT BUFFETING  
COMPRESSIBLE FLOW  
∞ EFFECTS  
FLUTTER  
HEAT TRANSFER  
OSCILLATING FLOW  
PRESSURE EFFECTS  
RELAXATION (PHYSIOLOGY)  
SECONDARY FLOW  
SUPERSONIC FLOW  
TRANSONIC FLOW

#### COMPRESSIBLE BOUNDARY LAYER

GS BOUNDARY LAYERS  
· COMPRESSIBLE BOUNDARY LAYER  
RT LAMINAR BOUNDARY LAYER  
THREE DIMENSIONAL BOUNDARY LAYER  
TURBULENT BOUNDARY LAYER

#### COMPRESSIBLE FLOW

GS FLUID FLOW  
· COMPRESSIBLE FLOW  
· TRANSONIC FLOW  
RT AERODYNAMICS  
AIR FLOW  
CARTAN SPACE  
COMPRESSIBILITY  
COMPRESSIBILITY EFFECTS  
CROCCO METHOD  
GAS FLOW  
HUGONIOT EQUATION OF STATE  
HYPERSONIC FLOW  
INCOMPRESSIBLE FLOW  
MAGNETOHYDRODYNAMIC FLOW  
NEWTON PRESSURE LAW  
STAGNATION FLOW  
STAGNATION PRESSURE  
STAGNATION TEMPERATURE  
SUBSONIC FLOW  
SUPERSONIC FLOW

#### COMPRESSIBLE FLUIDS

RT AERODYNAMIC HEATING  
CROCCO METHOD  
FLUID POWER  
∞ FLUIDS  
HYDROELASTICITY  
IDEAL FLUIDS  
INCOMPRESSIBLE FLUIDS  
MAXWELL FLUIDS  
METHOD OF CHARACTERISTICS  
P WAVES  
SUPERFLUIDITY

#### COMPRESSOR BLADES

GS TURBOMACHINE BLADES  
· COMPRESSOR BLADES  
RT ∞ BLADES  
CENTRIFUGAL COMPRESSORS  
FAN BLADES  
ROTATING STALLS  
ROTOR BLADES (TURBOMACHINERY)  
STATOR BLADES  
TURBINE BLADES  
TURBOCOMPRESSORS  
VANES

#### COMPRESSOR EFFICIENCY

GS EFFICIENCY  
· COMPRESSOR EFFICIENCY  
RT POWER EFFICIENCY  
THERMODYNAMIC EFFICIENCY

#### COMPRESSOR ROTORS

GS ROTATING BODIES  
· ROTORS  
· COMPRESSOR ROTORS  
RT CENTRIFUGAL COMPRESSORS  
COMPRESSORS  
∞ FANS  
IMPELLERS  
ROTOR BLADES (TURBOMACHINERY)  
TURBINE WHEELS  
TURBOCOMPRESSORS

#### COMPRESSORS

SN (EXCLUDES DATA COMPRESSORS)  
GS COMPRESSORS  
· CENTRIFUGAL COMPRESSORS  
· SUPERCHARGERS  
· SUPERSONIC COMPRESSORS

### COMPRESSORS-(CONT.)

· TRANSONIC COMPRESSORS  
· TURBOCOMPRESSORS  
RT AIR CONDITIONING EQUIPMENT  
BLOWERS  
COMPRESSED AIR  
COMPRESSED GAS  
COMPRESSING  
COMPRESSOR ROTORS  
CONDENSERS (LIQUEFIERS)  
COOLERS  
∞ FANS  
REFRIGERATING MACHINERY  
STATORS  
TURBOMACHINERY  
VACUUM PUMPS  
VANELESS DIFFUSERS

#### COMPUTATIONAL FLUID DYNAMICS

GS ANALYSIS (MATHEMATICS)  
· NUMERICAL ANALYSIS  
· COMPUTATIONAL FLUID DYNAMICS  
FLUID MECHANICS  
· FLUID DYNAMICS  
· COMPUTATIONAL FLUID DYNAMICS  
RT COMPUTATION  
∞ DYNAMICS  
EQUATIONS OF MOTION  
FINITE ELEMENT METHOD  
FLOW DEFLECTION  
FLOW EQUATIONS  
FLUX VECTOR SPLITTING  
GRID GENERATION (MATHEMATICS)  
HYDRODYNAMIC COEFFICIENTS  
INTERACTIONAL AERODYNAMICS  
K-EPSILON TURBULENCE MODEL  
MULTIGRID METHODS  
NAVIER-STOKES EQUATION  
PANEL METHOD (FLUID DYNAMICS)  
RELAXATION METHOD (MATHEMATICS)  
SPECTRAL METHODS  
TURBULENCE MODELS  
TVD SCHEMES

#### COMPUTATIONAL GRIDS

UF GRIDS (MATHEMATICS)  
MESH (MATHEMATICS)  
GS COORDINATES  
· COMPUTATIONAL GRIDS  
RT GRID GENERATION (MATHEMATICS)  
∞ GRIDS  
MATHEMATICAL MODELS  
MULTIGRID METHODS  
NUMERICAL ANALYSIS  
PROBLEM SOLVING  
THREE DIMENSIONAL MODELS

#### CONCAVITY

RT CONTOUR SENSORS  
CONTOURS  
CONVEXITY  
FLATNESS  
SHAPES  
∞ SURFACE GEOMETRY

#### CONCORDE AIRCRAFT

GS JET AIRCRAFT  
· TURBOFAN AIRCRAFT  
· CONCORDE AIRCRAFT  
SUD AVIATION AIRCRAFT  
· CONCORDE AIRCRAFT  
SUPERSONIC AIRCRAFT  
· SUPERSONIC TRANSPORTS  
· CONCORDE AIRCRAFT  
TRANSPORT AIRCRAFT  
· CONCORDE AIRCRAFT  
RT ∞ AIRCRAFT

#### CONDENSATION TRAILS

USE CONTRAILS

#### CONDENSER RADIATORS

USE CONDENSERS (LIQUEFIERS)  
HEAT RADIATORS

#### CONDENSERS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)  
RT CAPACITORS  
CONDENSERS (LIQUEFIERS)  
JET CONDENSERS  
PHOTOGRAPHIC RECTIFIERS

### CONDENSERS (LIQUEFIERS)

UF CONDENSER RADIATORS  
GS CONDENSERS (LIQUEFIERS)  
· JET CONDENSERS  
RT ABSORBERS (EQUIPMENT)  
AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
COLD TRAPS  
COLUMNS (PROCESS ENGINEERING)  
COMPRESSORS  
CONDENSATES  
∞ CONDENSERS  
CONDENSING  
COOLING FINS  
COOLING SYSTEMS  
DISTILLATION EQUIPMENT  
DRYING APPARATUS  
EVAPORATORS  
EXHAUST SYSTEMS  
FILM CONDENSATION  
HEAT EXCHANGERS  
HEAT PUMPS  
LIQUEFIED GASES  
REFRIGERATING MACHINERY  
SEPARATORS  
SPACECRAFT RADIATORS  
VAPORIZERS

#### CONDENSING

UF GAS LIQUEFACTION  
GS CONDENSING  
· FILM CONDENSATION  
RT ASSOCIATION REACTIONS  
CLOUD PHYSICS  
CONCENTRATING  
CONDENSATES  
∞ CONDENSATION  
CONDENSATION NUCLEI  
CONDENSERS (LIQUEFIERS)  
COOLING  
DEHUMIDIFICATION  
DEW POINT  
DISTILLATION  
DROP SIZE  
DROPS (LIQUIDS)  
EVAPORATION  
GAS-LIQUID INTERACTIONS  
GAS-METAL INTERACTIONS  
NUCLEATION  
PHASE CHANGE MATERIALS  
PHASE TRANSFORMATIONS  
REFRIGERATING  
∞ SATURATION  
∞ SEPARATION  
SUBLIMATION  
SUPERCOOLING  
SUPERSATURATION

#### CONDOR MISSILE

GS MISSILES  
· AIR TO SURFACE MISSILES  
· CONDOR MISSILE

#### CONDUCTANCE

USE RESISTANCE

#### CONDUCTIVE HEAT TRANSFER

UF HEAT CONDUCTION  
GS TRANSMISSION  
· HEAT TRANSMISSION  
· HEAT TRANSFER  
· CONDUCTIVE HEAT TRANSFER  
RT ∞ CONDUCTION  
CONVECTIVE HEAT TRANSFER  
LAMINAR HEAT TRANSFER  
THERMAL CONDUCTIVITY  
THERMAL CONDUCTORS

#### CONES

SN (LIMITED TO MATERIAL OBJECTS)  
UF CONICAL FLARE  
FUSIFORM SHAPES  
GS CONES  
· CIRCULAR CONES  
· CONICAL BODIES  
· SLENDER CONES  
· NOSE CONES  
· ABLATIVE NOSE CONES  
· ROCKET NOSE CONES  
· SHATTER CONES  
RT AERODYNAMIC CONFIGURATIONS  
BODIES OF REVOLUTION  
CONICAL SHELLS  
CONICS  
FRUSTUMS



**CONES-(CONT.)**

HALF CONES  
MACH CONES  
SYMMETRICAL BODIES

**∞ CONFIGURATIONS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT CONFIGURATIONS  
BODY-WING AND TAIL CONFIGURATIONS  
CANARD CONFIGURATIONS  
CONFIGURATION MANAGEMENT  
LAUNCH VEHICLE CONFIGURATIONS  
MISSILE CONFIGURATIONS  
PROPULSION SYSTEM CONFIGURATIONS  
SPACECRAFT CONFIGURATIONS  
STAGGERING  
TORPEDOES

**CONICAL BODIES**

UF CONOIDS  
GS CONES  
. CONICAL BODIES  
. . . SLENDER CONES  
SYMMETRICAL BODIES  
. BODIES OF REVOLUTION  
. . . CONICAL BODIES  
. . . . SLENDER CONES  
RT AFTERBODIES  
AXISYMMETRIC BODIES

**CONICAL CAMBER**

GS CAMBER  
. CONICAL CAMBER  
RT WING CAMBER

**CONICAL FLARE**

USE CONES

**CONICAL FLOW**

GS FLUID FLOW  
. CONICAL FLOW  
RT AXISYMMETRIC FLOW  
BAFFLES  
∞ DIFFUSERS  
MULTIPHASE FLOW  
SEPARATED FLOW  
THREE DIMENSIONAL FLOW  
WALL FLOW  
WEDGE FLOW

**CONICAL NOZZLES**

RT ANNULAR NOZZLES  
CONICAL INLETS  
CONVERGENT NOZZLES  
CONVERGENT-DIVERGENT NOZZLES  
DIVERGENT NOZZLES  
EXHAUST DIFFUSERS  
EXHAUST NOZZLES  
HYPERSONIC NOZZLES  
INLET NOZZLES  
∞ JET NOZZLES  
NOZZLE GEOMETRY  
NOZZLE INSERTS  
NOZZLE WALLS  
∞ NOZZLES  
PLUG NOZZLES  
ROCKET NOZZLES  
SKIRTS  
SONIC NOZZLES  
SPIKE NOZZLES  
SPRAY NOZZLES  
SUPERSONIC NOZZLES  
TRANSONIC NOZZLES  
TURBINE EXHAUST NOZZLES  
WIND TUNNEL NOZZLES

**CONICS**

GS GEOMETRY  
. EUCLIDEAN GEOMETRY  
. . ANALYTIC GEOMETRY  
. . . CONICS  
. . . . ELLIPSES  
. . . . HYPERBOLAS  
. . . . PARABOLAS  
RT CONES  
HALF CONES  
LOCI

**CONJUGATE GRADIENT METHOD**

GS ANALYSIS (MATHEMATICS)  
. NUMERICAL ANALYSIS  
. . ITERATION

**CONJUGATE GRADIENT METHOD-(CONT.)**

. . . . CONJUGATE GRADIENT METHOD  
RT ALGORITHMS  
CONJUGATES  
GRADIENTS  
ITERATIVE SOLUTION

**CONOIDS**

USE CONICAL BODIES

**CONSERVATION EQUATIONS**

RT BERNOULLI THEOREM  
CONTINUITY EQUATION  
∞ EQUATIONS  
NONCONSERVATIVE FORCES  
VORTICITY TRANSPORT HYPOTHESIS

**CONSISTENCY**

RT ABILITIES  
ACCURACY  
COMPUTER SYSTEMS PERFORMANCE  
EFFORT  
ERRORS  
LEVELING  
LINEARITY  
∞ MEASUREMENT  
∞ PERFORMANCE  
PRECISION  
QUALITY  
RATINGS  
RELIABILITY  
TOLERANCES (MECHANICS)  
VALIDITY  
VARIABILITY

**CONSTANT SPEED PROPELLERS**

USE VARIABLE PITCH PROPELLERS

**CONSTITUTIVE EQUATIONS**

RT ELECTRIC FIELDS  
∞ EQUATIONS  
MAGNETIC CHARGE DENSITY  
MAGNETIC FIELDS  
MAGNETIC FLUX

**CONSTRICTIONS**

UF RESTRICTIONS  
RT ∞ BARRIERS  
BLOCKING  
CHOKES (RESTRICTIONS)  
CLOSURES  
CONSTRAINTS  
CONTRACTS  
IMPEDANCE  
PLUGGING  
∞ RESISTANCE  
RETARDERS (DEVICES)  
SEALS (STOPPERS)  
STOPPING

**CONSTRUCTION**

SN (EXCLUDES TYPES OF STRUCTURES)  
UF ERECTION  
RT ARCHITECTURE  
ASSEMBLING  
BRIDGES (STRUCTURES)  
BUILDINGS  
CAISSONS  
CONCRETE STRUCTURES  
∞ CONSTRUCTION MATERIALS  
CONTRACTORS  
CONTRACTS  
∞ DESIGN  
EXCAVATION  
FABRICATION  
HIGHWAYS  
INSPECTION  
INSTALLING  
LAYOUTS  
MAINTENANCE  
MASONRY  
QUALITY CONTROL  
RECONSTRUCTION  
RIGGING  
SHIPYARDS  
SPACE MANUFACTURING  
STARSITE PROGRAM  
STEEL STRUCTURES  
STRESS ANALYSIS  
STRUCTURAL ANALYSIS  
STRUCTURAL DESIGN  
STRUCTURAL ENGINEERING  
STRUCTURAL MEMBERS  
SURVEYS  
TUNNELING (EXCAVATION)

**CONSTRUCTION-(CONT.)**

WELDING

**CONSTRUCTION IN SPACE**

USE ORBITAL ASSEMBLY

**∞ CONSTRUCTION MATERIALS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
UF BUILDING MATERIALS  
STRUCTURAL MATERIALS  
RT AGGREGATES  
AIRCRAFT CONSTRUCTION MATERIALS  
AIRCRAFT SURVIVABILITY  
AIRFRAME MATERIALS  
ARCHITECTURE  
BITUMENS  
BOARDS (PAPER)  
BRICKS  
CEMENTS  
COMPOSITE MATERIALS  
CONCRETES  
CONSTRUCTION  
GRAPHITE-EPOXY COMPOSITES  
GROUT  
INSULATION  
LATHES  
MASONRY (TRADEMARK)  
MASONRY  
∞ MATERIALS  
PANELS  
PLASTICS  
POLYMER MATRIX COMPOSITES  
PROTECTIVE COATINGS  
REACTOR MATERIALS  
SKIN (STRUCTURAL MEMBER)  
SPACECRAFT CONSTRUCTION  
MATERIALS  
STRUCTURAL MEMBERS

**CONSUMPTION**

GS CONSUMPTION  
. ENERGY CONSUMPTION  
. FUEL CONSUMPTION  
. OXYGEN CONSUMPTION  
. WATER CONSUMPTION  
RT COMMERCE  
CONSUMERS  
DEMAND (ECONOMICS)  
DEPLETION  
EXHAUSTING  
EXHAUSTION  
SUPPLYING  
UTILIZATION

**∞ CONTAINERS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
UF RECEPTACLES (CONTAINERS)  
RT AMPOULES  
AUTOCLAVES  
BAGS  
BARRELS (CONTAINERS)  
BASKETS  
BIOPAKS  
BOTTLES  
BOXES (CONTAINERS)  
BUNDLES  
CANS  
∞ CAPSULES  
CARTRIDGES  
CASES (CONTAINERS)  
CRUCIBLES  
DISPOSAL  
DRUMS (CONTAINERS)  
ENCLOSURES  
FUEL TANKS  
GLASSWARE  
HOPPERS  
HOUSINGS  
MATERIALS HANDLING  
MICROMODULES  
PACKAGES  
PACKAGING  
PRESERVING  
PRESSURE VESSELS  
PROTECTORS  
REELS  
SPOOLS  
SPRAYERS  
TANKS (CONTAINERS)  
TRANSPORTER  
TRAYS

## CONTINUITY EQUATION

### CONTAINERS-(CONT.)

WING TANKS

### CONTINUITY EQUATION

RT CONSERVATION EQUATIONS  
CONTINUUM MECHANICS  
CROCCO-LEE THEORY  
∞ EQUATIONS  
EQUATIONS OF MOTION  
EQUATIONS OF STATE  
FLUID DYNAMICS  
NONCONSERVATIVE FORCES  
STEADY FLOW

### CONTINUUM FLOW

GS FLUID FLOW  
GAS FLOW  
CONTINUUM FLOW  
RT FREE MOLECULAR FLOW  
MOLECULAR FLOW  
RAREFIED GAS DYNAMICS  
SLIP FLOW

### CONTINUUM MECHANICS

RT BURGER EQUATION  
CLASSICAL MECHANICS  
CONTINUITY EQUATION  
CONTINUUM MODELING  
∞ DYNAMICS  
FLOW THEORY  
FLUID MECHANICS  
MAXWELL BODIES  
∞ MECHANICS (PHYSICS)  
MULTIPOLAR FIELDS  
SOLID MECHANICS  
STATISTICAL MECHANICS  
STRESS TENSORS

### CONTINUUM MODELING

RT CONTINUUM MECHANICS  
CONTINUUMS  
LARGE SPACE STRUCTURES  
MATHEMATICAL MODELS  
STRUCTURAL ANALYSIS

### CONTRAILS

UF CONDENSATION TRAILS  
VAPOR TRAILS  
RT CONDENSATES  
WAKES

### CONTRAROTATING PROPELLERS

GS PROPELLERS  
CONTRAROTATING PROPELLERS  
RT PROPELLER DRIVE  
PROPELLER EFFICIENCY  
TURBOPROP ENGINES

### ∞ CONTROL

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
UF CONTROL SYSTEMS  
CONTROLLED STABILITY  
REGULATION  
RT ACCESS CONTROL  
ACTIVE CONTROL  
ADAPTIVE CONTROL  
AIR NAVIGATION  
AIR TRAFFIC CONTROL  
AIRCRAFT CONTROL  
ALTITUDE CONTROL  
APPROACH CONTROL  
ASTRONICS  
ATTITUDE CONTROL  
AUTOMATIC CONTROL  
AUTOMATIC CONTROL VALVES  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC FREQUENCY CONTROL  
AUTOMATIC GAIN CONTROL  
AVIONICS  
BIOFEEDBACK  
BOUNDARY LAYER CONTROL  
CASCADE CONTROL  
CHEMICAL REACTION CONTROL  
CIRCULATION CONTROL AIRFOILS  
CIRCULATION CONTROL ROTORS  
COMBUSTION CONTROL  
COMMAND AND CONTROL  
CONTROL BOARDS  
CONTROL CONFIGURED VEHICLES  
CONTROL DATA (COMPUTERS)  
CONTROL EQUIPMENT  
CONTROL MOMENT GYROSCOPES  
CONTROL ROCKETS

### CONTROL-(CONT.)

CONTROL RODS  
CONTROL SIMULATION  
CONTROL STABILITY  
CONTROL STICKS  
CONTROL SURFACES  
CONTROL SYSTEMS DESIGN  
CONTROL THEORY  
CONTROL UNITS (COMPUTERS)  
CONTROL VALVES  
CONTROLLABILITY  
CONTROLLED ATMOSPHERES  
CONTROLLED FUSION  
CONTROLLERS  
CRITICAL PATH METHOD  
CYBERNETICS  
DIRECT LIFT CONTROLS  
DIRECTIONAL CONTROL  
DYNAMIC CHARACTERISTICS  
DYNAMIC CONTROL  
ELECTRIC CONTROL  
ELECTRONIC CONTROL  
ELEVATORS (CONTROL SURFACES)  
ENGINE CONTROL  
ENVIRONMENTAL CONTROL  
FEEDBACK CONTROL  
FEEDFORWARD CONTROL  
FIRE CONTROL  
FIRE CONTROL CIRCUITS  
FLAPS (CONTROL SURFACES)  
FLIGHT CONTROL  
FLOOD CONTROL  
FLUIDICS  
FLY BY TUBE CONTROL  
FLY BY WIRE CONTROL  
FREQUENCY CONTROL  
FUEL CONTROL  
GROUND BASED CONTROL  
HARMONIC CONTROL  
HELICOPTER CONTROL  
HYDRAULIC CONTROL  
INTEGRATED MISSION CONTROL  
CENTER  
INTERACTIVE CONTROL  
INVENTORY CONTROLS  
JET CONTROL  
LATERAL CONTROL  
LINEAR QUADRATIC GAUSSIAN  
CONTROL  
LINEAR QUADRATIC REGULATOR  
LONGITUDINAL CONTROL  
MAGNETIC CONTROL  
MANUAL CONTROL  
MISSILE CONTROL  
MODEL REFERENCE ADAPTIVE  
CONTROL  
NETWORK CONTROL  
NUCLEAR REACTOR CONTROL  
NUMERICAL CONTROL  
OFF-ON CONTROL  
OPTIMAL CONTROL  
PAYLOAD CONTROL  
PHASE CONTROL  
PLASMA CONTROL  
PNEUMATIC CONTROL  
POINTING CONTROL SYSTEMS  
POLLUTION CONTROL  
POROUS BOUNDARY LAYER CONTROL  
PROCESS CONTROL (INDUSTRY)  
PROPORTIONAL CONTROL  
QUALITY CONTROL  
RADAR APPROACH CONTROL  
RADIO CONTROL  
∞ REACTION CONTROL  
REGULATIONS  
REGULATORS  
REGULATORY MECHANISMS (BIOLOGY)  
REMOTE CONTROL  
ROCKET ENGINE CONTROL  
SATELLITE ATTITUDE CONTROL  
SATELLITE CONTROL  
SCHEDULING  
SELF ADAPTIVE CONTROL SYSTEMS  
SEQUENTIAL CONTROL  
SERVOCONTROL  
SERVOMECHANISMS  
SHAPE CONTROL  
SHOCK WAVE CONTROL  
SISO (CONTROL SYSTEMS)  
SPACECRAFT CONTROL  
SPECTRAL SHIFT CONTROL  
SPECTRAL SHIFT CONTROL REACTOR  
SPEED CONTROL  
STABILIZATION  
STEERING

### CONTROL-(CONT.)

SUBMARINE INTEGRATED CONTROL  
PROJECT  
SYSTEMS ENGINEERING  
TABS (CONTROL SURFACES)  
TEMPERATURE CONTROL  
THERMAL CONTROL COATINGS  
THRUST CONTROL  
THRUST VECTOR CONTROL  
TIME OPTIMAL CONTROL  
TRAFFIC CONTROL  
TRAJECTORY CONTROL  
TRANSIT ATTITUDE CONTROL  
SATELLITE  
TRANSPONDER CONTROL GROUP  
TURBOJET ENGINE CONTROL  
VARIABLE STREAM CONTROL ENGINES  
VISUAL CONTROL  
VOICE CONTROL  
WAVE INCIDENCE CONTROL  
WEATHER MODIFICATION

### CONTROL CONFIGURED VEHICLES

RT AIRCRAFT CONFIGURATIONS  
AIRCRAFT DESIGN  
∞ CONTROL  
FLIGHT CONTROL  
TECHNOLOGY UTILIZATION  
∞ VEHICLES

### CONTROL DEVICES

USE CONTROL EQUIPMENT

### CONTROL EQUIPMENT

UF CONTROL DEVICES  
GS CONTROL EQUIPMENT  
CONTROL STICKS  
CRYOSTATS  
PRESSURE REGULATORS  
PRESSURE SWITCHES  
SERVOAMPLIFIERS  
SPEED REGULATORS  
TELEOPERATORS  
THERMOSTATS  
RT AIRCRAFT CONTROL  
AUTOMATIC CONTROL  
∞ CONTROL  
∞ EFFECTORS  
ELECTRIC CONTROL  
ELECTRONIC CONTROL  
FEEDBACK CONTROL  
MANIPULATORS  
MANUAL CONTROL  
NONLINEAR SYSTEMS  
OFF-ON CONTROL  
PNEUMATIC CONTROL  
PROPORTIONAL CONTROL  
RECORDING INSTRUMENTS  
SPEED CONTROL  
TRANSDUCERS

### CONTROL MOMENT GYROSCOPES

GS GYROSCOPES  
CONTROL MOMENT GYROSCOPES  
RT ATTITUDE CONTROL  
ATTITUDE GYROS  
ATTITUDE INDICATORS  
∞ CONTROL  
EQUATIONS OF MOTION  
GIMBALS  
GYRODAMPERS  
INDICATING INSTRUMENTS  
MEASURING INSTRUMENTS  
NUTATION DAMPERS  
SERVOCONTROL  
SERVOMECHANISMS

### CONTROL ROCKETS

UF STEERING ROCKETS  
GS ENGINES  
TORPEDO ENGINES  
VERNIER ENGINES  
CONTROL ROCKETS  
RT ∞ CONTROL  
RETROCKET ENGINES  
STEERING  
THRUST CONTROL  
VARIABLE THRUST

### CONTROL SIMULATION

GS SIMULATION  
CONTROL SIMULATION  
SIMULATORS  
CONTROL SIMULATION  
RT AIRCRAFT CONTROL

## CONVECTIVE HEAT TRANSFER

**CONTROL SIMULATION-(CONT.)**  
 COMPUTERIZED SIMULATION  
 ∞ CONTROL  
 FLIGHT SIMULATION  
 FLIGHT SIMULATORS  
 MOTION SIMULATORS  
 SPACECRAFT CONTROL  
 SPACECRAFT MANEUVERS  
 TRAINING SIMULATORS

**CONTROL STABILITY**  
 GS DYNAMIC CHARACTERISTICS  
 . DYNAMIC STABILITY  
 . . **CONTROL STABILITY**  
 STABILITY  
 . DYNAMIC STABILITY  
 . . **CONTROL STABILITY**  
 RT AIRCRAFT CONTROL  
 AIRCRAFT SPIN  
 AIRCRAFT STABILITY  
 ∞ CONTROL  
 CONTROLLABILITY  
 FLIGHT CONTROL  
 MOTION STABILITY  
 NYQUIST DIAGRAM  
 PILOT INDUCED OSCILLATION  
 ROBUSTNESS (MATHEMATICS)  
 SAMPLED DATA SYSTEMS  
 SISO (CONTROL SYSTEMS)  
 SPACECRAFT MOTION  
 SPACECRAFT STABILITY  
 STABILITY AUGMENTATION  
 SYSTEMS STABILITY

**CONTROL STICKS**  
 GS CONTROL EQUIPMENT  
 . **CONTROL STICKS**  
 RT AIRCRAFT CONTROL  
 FLIGHT CONTROL  
 MANUAL CONTROL

**CONTROL SURFACES**  
 GS **CONTROL SURFACES**  
 . AILERONS  
 . . FLAPERONS  
 . . SPOILER SLOT AILERONS  
 . ELEVATORS (CONTROL SURFACES)  
 . ELEVONS  
 . FLAPS (CONTROL SURFACES)  
 . . EXTERNALLY BLOWN FLAPS  
 . . . UPPER SURFACE BLOWN FLAPS  
 . . FLAPERONS  
 . . JET FLAPS  
 . . SPLIT FLAPS  
 . . WING FLAPS  
 . . . LEADING EDGE FLAPS  
 . . . LEADING EDGE SLATS  
 . . . TRAILING EDGE FLAPS  
 . . . VORTEX FLAPS  
 . GUIDE VANES  
 . . JET VANES  
 . HORIZONTAL TAIL SURFACES  
 . RUDDERS  
 . . AERIAL RUDDERS  
 . . MARINE RUDDERS  
 . SPOILERS  
 . TABS (CONTROL SURFACES)  
 RT AERODYNAMIC BRAKES  
 AERODYNAMIC CONFIGURATIONS  
 AERODYNAMIC INTERFERENCE  
 AERODYNAMICS  
 AIRCRAFT PARTS  
 AIRCRAFT STRUCTURES  
 AIRFOILS  
 AIRFRAMES  
 BLUNT TRAILING EDGES  
 BOUNDARY LAYER CONTROL  
 CANARD CONFIGURATIONS  
 ∞ CONTROL  
 DRAG DEVICES  
 FINS  
 FIRES  
 FLIGHT CONTROL  
 FREE WING AIRCRAFT  
 GUIDANCE (MOTION)  
 NOSE FINS  
 STABILIZERS (FLUID DYNAMICS)  
 ∞ SURFACES  
 SWEEPBACK TAIL SURFACES  
 T TAIL SURFACES  
 TAIL ASSEMBLIES  
 TAIL SURFACES  
 TRAPEZOIDAL TAIL SURFACES  
 VANES  
 WINGS

**CONTROL SYSTEMS**  
 USE CONTROL

**CONTROL THEORY**  
 RT ADAPTIVE CONTROL  
 CLOSED CYCLES  
 CONTROL SIMULATION  
 CONTROL SYSTEMS DESIGN  
 CONTROLLABILITY  
 DISTRIBUTED PARAMETER SYSTEMS  
 DYNAMIC CONTROL  
 DYNAMICAL SYSTEMS  
 FEEDBACK  
 FEEDBACK CONTROL  
 FEEDFORWARD CONTROL  
 INTERACTIVE CONTROL  
 LINEAR QUADRATIC GAUSSIAN  
 CONTROL  
 LINEAR QUADRATIC REGULATOR  
 MODEL REFERENCE ADAPTIVE  
 CONTROL  
 OBSERVABILITY (SYSTEMS)  
 OFF-ON CONTROL  
 OPTIMAL CONTROL  
 ROBUSTNESS (MATHEMATICS)  
 SAMPLED DATA SYSTEMS  
 SERVOCONTROL  
 SHAPE CONTROL  
 SISO (CONTROL SYSTEMS)  
 ∞ THEORIES  
 TRACKING PROBLEM

**CONTROL VALVES**  
 GS VALVES  
 . **CONTROL VALVES**  
 RT ACTUATORS  
 ∞ CONTROL  
 PNEUMATIC CONTROL

**CONTROLLABILITY**  
 UF HANDLING QUALITIES  
 RT AIRCRAFT CONTROL  
 AIRCRAFT LANDING  
 AIRCRAFT PERFORMANCE  
 AIRCRAFT SPECIFICATIONS  
 AIRCRAFT SPIN  
 AIRCRAFT STABILITY  
 ∞ CONTROL  
 CONTROL STABILITY  
 CONTROL THEORY  
 DIRECTIONAL STABILITY  
 FLIGHT CHARACTERISTICS  
 HELICOPTER CONTROL  
 HELICOPTER PERFORMANCE  
 LIQUID SLOSHING  
 LOW SPEED STABILITY  
 MANEUVERABILITY  
 QUALITY  
 SPACECRAFT RELIABILITY  
 STABILITY  
 STEERING  
 WHEEL BRAKES

**CONTROLLED STABILITY**  
 USE CONTROL

**CONTROLLERS**  
 SN (LIMITED TO DEVICES AND CONTROL  
 THEORY)  
 GS **CONTROLLERS**  
 . POWER FACTOR CONTROLLERS  
 . SERVOMECHANISMS  
 . . SERVOAMPLIFIERS  
 . . SERVOMOTORS  
 RT ACTUATORS  
 ANALYZERS  
 AUTOMATIC CONTROL  
 ∞ AUTOMATION  
 ∞ CONTROL  
 CONTROL SYSTEMS DESIGN  
 CRYOSTATS  
 CURRENT REGULATORS  
 CYBERNETICS  
 ELECTRONIC CONTROL  
 INSTRUMENT RECEIVERS  
 INSTRUMENT TRANSMITTERS  
 ∞ INSTRUMENTS  
 LINEAR QUADRATIC REGULATOR  
 MEASURING INSTRUMENTS  
 PNEUMATIC CONTROL  
 PRESSURE REGULATORS  
 PROPELLANT ACTUATED INSTRUMENTS  
 REGULATORS  
 REMOTE CONTROL  
 ROCKET-BORNE INSTRUMENTS

**CONTROLLERS-(CONT.)**  
 SPEED CONTROL  
 SPEED REGULATORS  
 TEMPERATURE CONTROL  
 THERMOSTATS  
 VOLTAGE REGULATORS

**CONVAIR MILITARY AIRCRAFT**  
 USE GENERAL DYNAMICS AIRCRAFT  
 MILITARY AIRCRAFT

**CONVAIR 340 AIRCRAFT**  
 USE CV-340 AIRCRAFT

**CONVAIR 440 AIRCRAFT**  
 USE CV-440 AIRCRAFT

**CONVAIR 880 AIRCRAFT**  
 USE CV-880 AIRCRAFT

**CONVAIR 990 AIRCRAFT**  
 USE CV-990 AIRCRAFT

**CONVECTION**  
 GS **CONVECTION**  
 . FORCED CONVECTION  
 . FREE CONVECTION  
 . . RAYLEIGH-BENARD CONVECTION  
 . . . BENARD CELLS  
 . . MARANGONI CONVECTION  
 RT ADVECTION  
 BASE HEATING  
 BOUSSINESQ APPROXIMATION  
 ∞ CONDUCTION  
 CONVECTION CELLS  
 FLUID DYNAMICS  
 GRASHOF NUMBER  
 HEAT TRANSMISSION  
 HEATING  
 METEOROLOGY  
 MIXING HEIGHT  
 MIXING LAYERS (FLUIDS)  
 STELLAR INTERIORS

**CONVECTION CELLS**  
 RT ATMOSPHERIC CIRCULATION  
 CONVECTION  
 CONVECTION CURRENTS  
 CONVECTIVE FLOW  
 CONVECTIVE HEAT TRANSFER

**CONVECTIVE FLOW**  
 UF THERMAL CURRENTS  
 GS FLUID FLOW  
 . **CONVECTIVE FLOW**  
 . . RAYLEIGH-BENARD CONVECTION  
 . . . BENARD CELLS  
 RT CONVECTION CELLS  
 FREE CONVECTION  
 GAS DENSITY  
 GEOPHYSICAL FLUID FLOW CELLS  
 HEAT TRANSMISSION  
 MARANGONI CONVECTION  
 MASS FLOW RATE  
 MASS TRANSFER  
 POROUS BOUNDARY LAYER CONTROL  
 TEMPERATURE  
 THERMAL DIFFUSION

**CONVECTIVE HEAT TRANSFER**  
 GS TRANSMISSION  
 . HEAT TRANSMISSION  
 . . HEAT TRANSFER  
 . . . **CONVECTIVE HEAT TRANSFER**  
 RT AERODYNAMIC HEATING  
 BOUNDARY LAYER COMBUSTION  
 BOUNDARY LAYER FLOW  
 CONDUCTIVE HEAT TRANSFER  
 CONVECTION CELLS  
 COOLING FINS  
 FORCED CONVECTION  
 FREE CONVECTION  
 LAMINAR HEAT TRANSFER  
 MASS TRANSFER  
 NUSSELT NUMBER  
 RADIATIVE HEAT TRANSFER  
 RAYLEIGH-BENARD CONVECTION  
 SURFACE COOLING  
 TEMPERATURE GRADIENTS  
 THERMOHYDRAULICS  
 THERMOSIPHONS  
 TURBULENT HEAT TRANSFER

## CONVERGENT NOZZLES

### CONVERGENT NOZZLES

- RT CONICAL NOZZLES
- FLUID AMPLIFIERS
- NOZZLE GEOMETRY
- NOZZLE WALLS
- ∞ NOZZLES
- TURBINE ENGINES
- TURBOJET ENGINES

### CONVERGENT-DIVERGENT NOZZLES

- UF DE LAVAL NOZZLES
- GS EXHAUST NOZZLES
- CONVERGENT-DIVERGENT NOZZLES
- RT CONICAL NOZZLES
- NOZZLE GEOMETRY
- NOZZLE INSERTS
- ∞ NOZZLES
- ROCKET NOZZLES
- SUPERSONIC NOZZLES
- TRANSONIC NOZZLES
- TURBINE EXHAUST NOZZLES
- WIND TUNNEL NOZZLES

### CONVERTAPLANES

- USE V/STOL AIRCRAFT

### CONVERTIBLE FAN-SHAFT ENGINES

- GS AIRCRAFT ENGINES
- CONVERTIBLE FAN-SHAFT ENGINES
- ENGINES
- AIR BREATHING ENGINES
- GAS TURBINE ENGINES
- JET ENGINES
- TURBOJET ENGINES
- TURBOFAN ENGINES
- CONVERTIBLE FAN-SHAFT ENGINES
- INTERNAL COMBUSTION ENGINES
- GAS TURBINE ENGINES
- JET ENGINES
- TURBOJET ENGINES
- TURBOFAN ENGINES
- CONVERTIBLE FAN-SHAFT ENGINES
- TURBINE ENGINES
- GAS TURBINE ENGINES
- JET ENGINES
- TURBOJET ENGINES
- TURBOFAN ENGINES
- CONVERTIBLE FAN-SHAFT ENGINES
- RT HELICOPTER ENGINES
- JET THRUST
- PROPULSION SYSTEM CONFIGURATIONS
- ROTARY WINGS
- TF-34 ENGINE
- TURBOSHAFTS
- V/STOL AIRCRAFT
- VARIABLE CYCLE ENGINES
- VERTICAL TAKEOFF AIRCRAFT

### CONVEXITY

- GS SHAPES
- CONVEXITY
- RT CONCAVITY
- CONTOUR SENSORS
- CONTOURS
- FLATNESS
- LENTICULAR BODIES
- ∞ SURFACE GEOMETRY

### COOKPOT AIRCRAFT

- USE TU-124 AIRCRAFT

### COOLERS

- RT AIR CONDITIONING
- AIR CONDITIONING EQUIPMENT
- AIR COOLING
- COMPRESSORS
- COOLANTS
- COOLING
- COOLING SYSTEMS
- CRYOGENIC COOLING
- REFRIGERATING
- REFRIGERATING MACHINERY
- REFRIGERATORS

### COOLING

- UF CHILLING
- HEAT DISSIPATION
- HEAT DISSIPATION CHILLING
- GS COOLING
- ABSORPTION COOLING
- AIR COOLING
- EVAPORATIVE COOLING

### COOLING-(CONT.)

- FILM COOLING
- SWEAT COOLING
- GAS COOLING
- LIQUID COOLING
- FILM COOLING
- MAGNETIC COOLING
- PLASMA COOLING
- PRECOOLING
- QUENCHING (COOLING)
- RADIANT COOLING
- REGENERATIVE COOLING
- SODIUM COOLING
- SOLAR COOLING
- SOLID CRYOGEN COOLING
- SPACE COOLING (BUILDINGS)
- SUPERCOOLING
- CRYOGENIC COOLING
- SURFACE COOLING
- THERMOELECTRIC COOLING
- THERMOMAGNETIC COOLING
- RT ABLATION
- ABLATIVE MATERIALS
- AIR CONDITIONING
- BATHING
- CONDENSING
- CONTRACTION
- COOLANTS
- COOLERS
- COOLING FLOWS (ASTROPHYSICS)
- CRYOGENICS
- ENGINE COOLANTS
- FILM CONDENSATION
- FREEZING
- FREON
- GEOTHERMAL ENERGY UTILIZATION
- HEAT EXCHANGERS
- HEAT RADIATORS
- HEAT SHIELDING
- HEAT TRANSFER
- HEATING
- HILSCH TUBES
- JACKETS
- LOW TEMPERATURE
- MELTING
- MUSHY ZONES
- REFRIGERATING
- REUSABLE HEAT SHIELDING
- SPACECRAFT RADIATORS
- TEMPERATURE CONTROL
- TEMPERATURE DISTRIBUTION
- THERMAL CYCLING TESTS
- THERMAL SHOCK
- THERMAL STRESSES
- TRANSPIRATION
- VENTILATION
- VENTILATION FANS
- VENTING
- WETTING

### COOLING FINS

- GS FINS
- COOLING FINS
- RT CONDENSERS (LIQUEFIERS)
- CONVECTIVE HEAT TRANSFER
- FINNED BODIES
- HEAT EXCHANGERS
- HEAT RADIATORS
- RADIATIVE HEAT TRANSFER

### COOLING SYSTEMS

- RT ABSORBERS (EQUIPMENT)
- AIR CONDITIONING
- AIR CONDITIONING EQUIPMENT
- AIR COOLING
- AIR FILTERS
- BLOWERS
- CLOSED CYCLES
- CONDENSERS (LIQUEFIERS)
- COOLANTS
- COOLERS
- DEHUMIDIFICATION
- ENGINE COOLANTS
- ETTINGSHAUSEN EFFECT
- EVAPORATIVE COOLING
- EVAPORATORS
- EXHAUST SYSTEMS
- FREON
- HEAT EXCHANGERS
- HEAT PUMPS
- HEAT RADIATORS
- HEAT SINKS
- INFRARED SUPPRESSION
- INTAKE SYSTEMS
- LIQUID COOLING

### COOLING SYSTEMS-(CONT.)

- LUBRICATION SYSTEMS
- REFRIGERANTS
- REFRIGERATING
- REFRIGERATING MACHINERY
- REGISTERS (AIR CIRCULATION)
- SOLAR COOLING
- SOLID CRYOGENS
- SPACE COOLING (BUILDINGS)
- SPACECRAFT RADIATORS
- ∞ SYSTEMS
- TEMPERATURE CONTROL
- TEMPERATURE DISTRIBUTION
- TRANSPIRATION
- VENTILATION
- VENTILATION FANS
- VENTS

### COPILOTS

- USE AIRCRAFT PILOTS

### CORDAGE

- RT CABLES (ROPES)
- CERAMIC FIBERS
- CONNECTORS
- COTTON
- FIBERS
- ∞ FILAMENTS
- STRANDS
- STRINGS
- WIRE
- YARNS

### CORE FLOW

- GS FLUID FLOW
- CORE FLOW
- RT FLOW GEOMETRY
- MAGNETOHYDRODYNAMIC FLOW
- ONE DIMENSIONAL FLOW
- PLASMAS (PHYSICS)
- SHEAR FLOW

### CORNER FLOW

- GS FLUID FLOW
- CORNER FLOW
- RT CHANNEL FLOW
- DUCTED FLOW
- ∞ FLOW
- NOZZLE FLOW
- SECONDARY FLOW

### CORNERS

- RT ANGLES (GEOMETRY)
- ANTENNAS
- JOINTS (JUNCTIONS)
- SHAPES

### CORONA DISCHARGES

- USE ELECTRIC CORONA

### CORPORAL MISSILE

- GS MISSILES
- SURFACE TO SURFACE MISSILES
- CORPORAL MISSILE
- RT LIQUID PROPELLANT ROCKET ENGINES

### CORRIDORS

- GS CORRIDORS
- GREAT PLAINS CORRIDOR (NORTH AMERICA)
- ST LOUIS-KANSAS CITY CORRIDOR (MO)
- RT PASSAGeways

### CORSAIR AIRCRAFT

- USE A-7 AIRCRAFT

### CORVUS MISSILE

- GS MISSILES
- CORVUS MISSILE
- RT LIQUID PROPELLANT ROCKET ENGINES

### COUETTE FLOW

- GS FLUID FLOW
- STEADY FLOW
- COUETTE FLOW
- TWO DIMENSIONAL FLOW
- COUETTE FLOW
- VISCOUS FLOW
- COUETTE FLOW
- RT ANNULAR FLOW
- AXISYMMETRIC FLOW
- HARTMANN FLOW
- ROTATING CYLINDERS

**COUGAR AIRCRAFT**  
USE F-9 AIRCRAFT

**COUNTER-ROTATING WHEELS**  
UF INERTIA WHEELS  
GS WHEELS  
RT **COUNTER-ROTATING WHEELS**  
COUNTER ROTATION  
FLYWHEELS  
GEARS  
MECHANICAL DRIVES  
REACTION WHEELS

**COUNTERFLOW**  
GS FLUID FLOW  
RT **COUNTERFLOW**  
AXIAL FLOW  
COUNTER ROTATION  
HEAT EXCHANGERS  
HEAT TRANSFER  
TRAPPED VORTICES  
TURBULENT DIFFUSION  
TURBULENT FLOW  
VORTICES

**COURIER AIRCRAFT**  
USE U-10 AIRCRAFT

**COURSES**  
USE PATHS

**COWELL METHOD**  
USE NUMERICAL INTEGRATION

**COWLINGS**  
GS HOUSINGS  
RT **COWLINGS**  
AIR INTAKES  
FAIRINGS  
NACELLES  
PODS (EXTERNAL STORES)  
PROTUBERANCES  
SHELLS (STRUCTURAL FORMS)

**CRAFT**  
USE VEHICLES

**CRANK-NICHOLSON METHOD**  
RT BOUNDARY VALUE PROBLEMS  
DIFFERENTIAL EQUATIONS  
FINITE DIFFERENCE THEORY  
FINITE ELEMENT METHOD  
NUMERICAL ANALYSIS  
PROBLEM SOLVING

**CRANKED WINGS**  
USE SWEEPED WINGS

**CRASH INJURIES**  
GS INJURIES  
RT **CRASH INJURIES**  
ACCIDENTS  
BURNS (INJURIES)  
HAZARDS  
WHIPLASH INJURIES

**CRASH LANDING**  
GS **CRASHES**  
CRASH LANDING  
DITCHING (LANDING)  
LANDING  
AIRCRAFT LANDING  
CRASH LANDING  
DITCHING (LANDING)  
RT AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
AIRCRAFT SAFETY  
AIRCRAFT SPIN  
ARRESTING GEAR  
CRASHWORTHINESS  
FLIGHT HAZARDS  
GLIDE LANDINGS  
HARD LANDING  
HORIZONTAL SPACECRAFT LANDING  
LUNAR LANDING  
PILOT ERROR  
PLANETARY LANDING  
SKID LANDINGS  
SOFT LANDING  
SPACECRAFT LANDING  
WATER LANDING

**CRASHES**  
GS **CRASHES**

**CRASHES-(CONT.)**  
CRASH LANDING  
DITCHING (LANDING)  
RT ACCIDENTS  
AIR BAG RESTRAINT DEVICES  
AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
AIRCRAFT SAFETY  
COLLISIONS  
CRASHWORTHINESS  
ENCOUNTERS  
FLIGHT HAZARDS  
FLIGHT SAFETY  
HIGHWAYS  
MIDAIR COLLISIONS  
PILOT ERROR  
SAFETY  
WRECKAGE

**CRESTS**  
USE WAVES

**CREW PROCEDURES (INFLIGHT)**  
GS FLIGHT OPERATIONS  
CREW PROCEDURES (INFLIGHT)  
PROCEDURES  
RT DISPLAY DEVICES  
FLIGHT CREWS  
IN-FLIGHT MONITORING  
SPACECREWS  
TASKS  
TESTS

**CREW PROCEDURES (PREFLIGHT)**  
GS PROCEDURES  
CREW PROCEDURES (PREFLIGHT)  
RT COUNTDOWN  
DISPLAY DEVICES  
FLIGHT CREWS  
FLIGHT OPERATIONS  
GROUND HANDLING  
GROUND TESTS  
IN-FLIGHT MONITORING  
ONBOARD EQUIPMENT  
PREFLIGHT OPERATIONS  
PRELAUNCH TESTS  
SPACECRAFT CONTROL  
SPACECREWS  
TASKS  
TESTS

**CRITICAL FLOW**  
GS FLUID FLOW  
CRITICAL FLOW  
RT FLOW CHARACTERISTICS  
GAS FLOW  
LAMINAR FLOW  
LIQUID FLOW  
MULTIPHASE FLOW  
ORIFICE FLOW  
PIPE FLOW  
PRESSURE GRADIENTS  
SINGLE-PHASE FLOW  
STEADY FLOW  
STEAM FLOW  
SUBCRITICAL FLOW  
SUPERCRITICAL FLOW  
TURBULENT FLOW  
UNSTEADY FLOW

**CRITICAL LOADING**  
SN (LIMITED TO FORCE LOADS)  
UF CRITICAL STRESS  
GS LOADS (FORCES)  
CRITICAL LOADING  
STRESSES  
RT CRITICAL LOADING  
AERODYNAMIC LOADS  
CRACK INITIATION  
DYNAMIC LOADS  
PROPORTIONAL LIMIT  
SHALLOW SHELLS  
STATIC LOADS

**CRITICAL MACH NUMBER**  
USE CRITICAL VELOCITY  
MACH NUMBER

**CRITICAL REYNOLDS NUMBER**  
USE CRITICAL VELOCITY  
REYNOLDS NUMBER

**CRITICAL SPEED**  
USE CRITICAL VELOCITY

**CRITICAL STRESS**  
USE CRITICAL LOADING

**CRITICAL VELOCITY**  
UF CRITICAL MACH NUMBER  
CRITICAL REYNOLDS NUMBER  
CRITICAL SPEED  
GS RATES (PER TIME)  
CRITICAL VELOCITY  
VELOCITY  
RT CRITICAL VELOCITY  
EXHAUST VELOCITY  
RESONANT FREQUENCIES  
TIP SPEED

**CROCCO METHOD**  
RT AXISYMMETRIC FLOW  
BOUNDARY LAYERS  
COMPRESSIBLE FLOW  
COMPRESSIBLE FLUIDS  
ENTROPY  
INVISID FLOW  
METHODODOLOGY  
SHOCK WAVE PROPAGATION  
STEADY FLOW  
VORTICITY

**CROCCO-LEE THEORY**  
RT BOUNDARY LAYER SEPARATION  
CONTINUITY EQUATION  
GAS FLOW  
INVISID FLOW  
MASS FLOW  
MULTIPHASE FLOW  
REATTACHED FLOW  
SEPARATED FLOW  
THEORIES

**CROSS FLOW**  
GS FLUID FLOW  
CROSS FLOW  
RT AERODYNAMIC CHARACTERISTICS  
FLOW  
FLOW CHARACTERISTICS  
FLOW GEOMETRY  
FLUID DYNAMICS  
SPANWISE BLOWING  
WATER TUNNEL TESTS

**CROSS SECTIONS**  
SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT ABSORPTION CROSS SECTIONS  
AIRFOIL PROFILES  
AREA  
ATOMIC COLLISIONS  
COLLISION PARAMETERS  
DISTRIBUTION (PROPERTY)  
DRAWINGS  
GEOMETRY  
GRADIENTS  
IONIZATION CROSS SECTIONS  
MEAN FREE PATH  
NEUTRON CROSS SECTIONS  
PLANFORMS  
RADAR CROSS SECTIONS  
SCATTERING CROSS SECTIONS  
SHAPES  
STOPPING POWER  
SURVEYS  
TWO DIMENSIONAL BODIES

**CRUCIFORM WINGS**  
GS AIRFOILS  
WINGS  
CRUCIFORM WINGS  
RT FIXED WINGS  
LOW ASPECT RATIO WINGS

**CRUISE MISSILES**  
GS MISSILES  
SURFACE TO SURFACE MISSILES  
CRUISE MISSILES  
NAVAHO MISSILE  
TOMAHAWK MISSILES  
RT ANTISHIP MISSILES

**CRUISING FLIGHT**  
RT COASTING FLIGHT  
FLIGHT  
HORIZONTAL FLIGHT

## CRUSADER AIRCRAFT

**CRUSADER AIRCRAFT**  
USE F-8 AIRCRAFT

**CRYOGENIC COOLING**  
GS COOLING  
.. SUPERCOOLING  
.. **CRYOGENIC COOLING**  
RT COOLERS  
CRYOGENICS  
FREEZING  
HEAT TRANSFER  
REFRIGERATING

**CRYOGENIC FLUIDS**  
GS LIQUIDS  
.. **CRYOGENIC FLUIDS**  
.. FERMI LIQUIDS  
.. FLOX  
.. LIQUID HELIUM  
.. LIQUID HELIUM 2  
.. LIQUID HYDROGEN  
.. LIQUID NITROGEN  
.. LIQUID OXYGEN  
RT CRYOGENIC TEMPERATURE  
CRYOGENICS  
CRYOPUMPING  
FLUID MANAGEMENT  
∞ FLUIDS  
ROCKET OXIDIZERS  
SOLID CRYOGEN COOLING  
SOLIDIFIED GASES

**CRYOGENIC GYROSCOPES**  
GS GYROSCOPES  
.. **CRYOGENIC GYROSCOPES**  
RT HIGH TEMPERATURE  
SUPERCONDUCTORS

**CRYOGENIC TEMPERATURE**  
UF ULTRALOW TEMPERATURE  
GS TEMPERATURE  
.. LOW TEMPERATURE  
.. **CRYOGENIC TEMPERATURE**  
RT ABSOLUTE ZERO  
COLD TRAPS  
CRITICAL TEMPERATURE  
CRYOGENIC FLUIDS  
CRYOGENICS  
CURIE TEMPERATURE  
SOLIDIFIED GASES  
SPACE TEMPERATURE

**CRYOGENIC WIND TUNNELS**  
GS TEST FACILITIES  
.. WIND TUNNELS  
.. **CRYOGENIC WIND TUNNELS**  
RT FLIGHT SIMULATORS  
TEST CHAMBERS

**CT-114 AIRCRAFT**  
USE CL-41 AIRCRAFT

**CUESTAS**  
USE RIDGES

∞ **CURRENTS**  
SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT AIR CURRENTS  
AIR FLOW  
BEAM CURRENTS  
CIRCULATION  
COASTAL CURRENTS  
ELECTRIC CURRENT  
EXTERNAL SURFACE CURRENTS  
FLUID FLOW  
OCEAN CURRENTS  
WATER CURRENTS

**CURRENTS (OCEANOGRAPHY)**  
USE WATER CURRENTS

**CURTAINS**  
RT ∞ BARRIERS  
DIVIDERS  
DOORS  
ENTRANCES  
OPENINGS  
∞ PARTITIONS  
PARTITIONS (STRUCTURES)  
∞ SCREENS  
SEPARATORS  
WALLS

**CURTAINS-(CONT.)**  
WINDOWS (APERTURES)

**CURTISS C-46 AIRCRAFT**  
USE C-46 AIRCRAFT

**CURTISS-WRIGHT AIRCRAFT**  
UF CURTISS-WRIGHT MILITARY AIRCRAFT  
GS **CURTISS-WRIGHT AIRCRAFT**  
.. C-46 AIRCRAFT  
.. X-19 AIRCRAFT  
RT ∞ AIRCRAFT

**CURTISS-WRIGHT MILITARY AIRCRAFT**  
USE CURTISS-WRIGHT AIRCRAFT  
MILITARY AIRCRAFT

**CURVED SURFACES**  
USE CONTOURS  
SHAPES  
SURFACES

**CUSHIONCRAFT GROUND EFFECT MACHINE**  
GS GROUND EFFECT MACHINES  
.. **CUSHIONCRAFT GROUND EFFECT  
MACHINE**  
RT HOVERING  
VERTICAL TAKEOFF AIRCRAFT

**CUSHIONS**  
RT AIR CUSHION LANDING SYSTEMS  
BUMPERS  
COUCHES  
GROUND EFFECT (AERODYNAMICS)  
HYDRAULIC EQUIPMENT  
∞ PAD  
∞ PILLOWS  
PNEUMATIC EQUIPMENT  
SEATS  
SHOCK ABSORBERS  
VIBRATION ISOLATORS

∞ **CUT-OFF**  
SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT BURNOUT  
ENGINE FAILURE  
MACHINING

**CUT-OUTS**  
USE OPENINGS

**CV-2 AIRCRAFT**  
USE DHC 4 AIRCRAFT

**CV-7 AIRCRAFT**  
USE DHC 5 AIRCRAFT

**CV-880 AIRCRAFT**  
UF CONVAIR 880 AIRCRAFT  
GS COMMERCIAL AIRCRAFT  
.. **CV-880 AIRCRAFT**  
GENERAL DYNAMICS AIRCRAFT  
.. **CV-880 AIRCRAFT**  
JET AIRCRAFT  
.. **CV-880 AIRCRAFT**  
MONOPLANES  
.. **CV-880 AIRCRAFT**  
PASSENGER AIRCRAFT  
.. **CV-880 AIRCRAFT**  
TRANSPORT AIRCRAFT  
.. **CV-880 AIRCRAFT**  
RT ∞ AIRCRAFT

**CV-990 AIRCRAFT**  
UF CONVAIR 990 AIRCRAFT  
GS COMMERCIAL AIRCRAFT  
.. **CV-990 AIRCRAFT**  
GENERAL DYNAMICS AIRCRAFT  
.. **CV-990 AIRCRAFT**  
JET AIRCRAFT  
.. **CV-990 AIRCRAFT**  
TURBOFAN AIRCRAFT  
.. **CV-990 AIRCRAFT**  
MONOPLANES  
.. **CV-990 AIRCRAFT**  
PASSENGER AIRCRAFT  
.. **CV-990 AIRCRAFT**  
RT ∞ AIRCRAFT

∞ **CYLINDERS**  
SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*

**CYLINDERS-(CONT.)**

RT ANALYTIC GEOMETRY  
CIRCULAR CYLINDERS  
CONCENTRIC CYLINDERS  
CYLINDRICAL BODIES  
CYLINDRICAL CHAMBERS  
CYLINDRICAL SHELLS  
∞ DRUMS  
DRUMS (CONTAINERS)  
ELASTIC CYLINDERS  
ELLIPTICAL CYLINDERS  
HEMISPHERE CYLINDER BODIES  
MONOCOQUE STRUCTURES  
ORTHOTROPIC CYLINDERS  
OSCILLATING CYLINDERS  
PLASMA CYLINDERS  
ROTATING CYLINDERS  
VISCOELASTIC CYLINDERS

**CYLINDRICAL AFTERBODIES**  
USE AFTERBODIES  
CYLINDRICAL BODIES

**CYLINDRICAL BODIES**  
UF CYLINDRICAL AFTERBODIES  
CYLINDROIDS  
GS SYMMETRICAL BODIES  
.. BODIES OF REVOLUTION  
.. **CYLINDRICAL BODIES**  
.. ROTATING CYLINDERS  
RT AFTERBODIES  
AIRY FUNCTION  
CENTERBODIES  
CIRCULAR CYLINDERS  
∞ CYLINDERS  
CYLINDRICAL COORDINATES  
ELASTIC CYLINDERS  
ELLIPTICAL CYLINDERS  
FOREBODIES  
FUSELAGES  
HEMISPHERE CYLINDER BODIES  
ORTHOTROPIC CYLINDERS  
OSCILLATING CYLINDERS  
PLASMA CYLINDERS  
PLASTIC BODIES  
ROLLERS  
VISCOELASTIC CYLINDERS

**CYLINDRICAL WAVES**  
RT AXISYMMETRIC FLOW  
ELASTIC WAVES  
ELECTROMAGNETIC RADIATION  
PLANE WAVES  
SPHERICAL WAVES  
∞ WAVES

**CYLINDROIDS**  
USE CYLINDRICAL BODIES

## D

**D-558 AIRCRAFT**  
UF DOUGLAS D-558 AIRCRAFT  
SKYROCKET AIRCRAFT  
SKYSTREAK AIRCRAFT  
GS JET AIRCRAFT  
.. **D-558 AIRCRAFT**  
MCDONNELL DOUGLAS AIRCRAFT  
.. DOUGLAS AIRCRAFT  
.. **D-558 AIRCRAFT**  
MONOPLANES  
.. **D-558 AIRCRAFT**  
RESEARCH AIRCRAFT  
.. **D-558 AIRCRAFT**  
SUPERSONIC AIRCRAFT  
.. **D-558 AIRCRAFT**  
RT ∞ AIRCRAFT

**DAKOTA AIRCRAFT**  
USE C-47 AIRCRAFT

**DALTON LAW**  
RT GAS COMPOSITION  
GAS DYNAMICS  
GAS-GAS INTERACTIONS  
IDEAL GAS  
PARTIAL PRESSURE  
VAPOR PRESSURE

**DAMAGE**  
GS DAMAGE

## DECLINATION

**DAMAGE-(CONT.)**

. CUMULATIVE DAMAGE  
 . EARTHQUAKE DAMAGE  
 . FIRE DAMAGE  
 . FLOOD DAMAGE  
 . FROST DAMAGE  
 . IMPACT DAMAGE  
 . METEORITIC DAMAGE  
 . RAIN IMPACT DAMAGE  
 . PROTON DAMAGE  
 . RADIATION DAMAGE  
 . LASER DAMAGE  
 . STORM DAMAGE  
 RT BURNTHROUGH (FAILURE)  
 CORROSION  
 DAMAGE ASSESSMENT  
 DECAY  
 DECOMPOSITION  
 DEFECTS  
 DEFORMATION  
 DEGRADATION  
 DESTRUCTION  
 DETERIORATION  
 DISCOLORATION  
 DISINTEGRATION  
 DURABILITY  
 FATIGUE (BIOLOGY)  
 FATIGUE (MATERIALS)  
 FRACTURES (MATERIALS)  
 HOT CORROSION  
 IMMOBILIZATION  
 IMPAIRMENT  
 INJURIES  
 LETHALITY  
 LOSSES  
 RADIATION EFFECTS  
 SABOTAGE  
 WARPAGE  
 WEAR  
 WEATHERING

**DAMP PROGRAM**

USE DOWNRANGE ANTIMISSILE  
 MEASUREMENT PROGRAM

**DAMPING IN PITCH**

USE DAMPING  
 PITCH (INCLINATION)

**DAMPING IN ROLL**

USE DAMPING  
 ROLL

**DAMPING IN YAW**

USE DAMPING  
 YAW

**DAMPING TESTS**

GS VIBRATION TESTS  
 . DAMPING TESTS  
 . STROKING TESTS  
 RT RESONANCE TESTING  
 STABILITY TESTS  
 ∞ TESTS  
 VIBRATION MEASUREMENT

**DART TURBOPROP ENGINES**

USE TURBOPROP ENGINES

**DASH HELICOPTER**

USE QH-50 HELICOPTER

**DASSAULT AIRCRAFT**

GS DASSAULT AIRCRAFT  
 . MIRAGE AIRCRAFT  
 . MIRAGE 3 AIRCRAFT  
 . MYSTERE 20 AIRCRAFT  
 RT ∞ AIRCRAFT  
 MYSTERE 50 AIRCRAFT

**DASSAULT MIRAGE 3 AIRCRAFT**

USE MIRAGE 3 AIRCRAFT

**DASSAULT MYSTERE 20 AIRCRAFT**

USE MYSTERE 20 AIRCRAFT

**DASSAULT MYSTERE 50 AIRCRAFT**

USE MYSTERE 50 AIRCRAFT

**DAST PROGRAM**

SN (DRONES FOR AERODYNAMIC AND  
 STRUCTURAL TESTING)  
 UF DRONES FOR AERODYNAMIC AND  
 STRUCT TEST

**DAST PROGRAM-(CONT.)**

GS PROGRAMS  
 . NASA PROGRAMS  
 . DAST PROGRAM  
 RT AEROELASTICITY  
 AIRCRAFT CONTROL  
 AIRCRAFT DESIGN  
 DRONE AIRCRAFT  
 FLIGHT TESTS  
 FLUTTER  
 REMOTELY PILOTED VEHICLES  
 VIBRATION DAMPING

**DATA COLLECTION PLATFORMS**

RT ARGOS SYSTEM  
 AUTOMATIC WEATHER STATIONS  
 ∞ DATA  
 GROUND STATIONS  
 INSTRUMENT PACKAGES  
 INTEGRATED GLOBAL OCEAN STATION  
 SYSTEMS  
 REMOTE SENSORS

**DATA READOUT SYSTEMS**

USE DATA SYSTEMS  
 DISPLAY DEVICES

**DC 3 AIRCRAFT**

UF DOUGLAS DC-3 AIRCRAFT  
 GS COMMERCIAL AIRCRAFT  
 . DC 3 AIRCRAFT  
 MCDONNELL DOUGLAS AIRCRAFT  
 . DOUGLAS AIRCRAFT  
 . DC 3 AIRCRAFT  
 MONOPLANES  
 . DC 3 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . CARGO AIRCRAFT  
 . DC 3 AIRCRAFT  
 RT ∞ AIRCRAFT

**DC 7 AIRCRAFT**

UF DOUGLAS DC-7 AIRCRAFT  
 GS COMMERCIAL AIRCRAFT  
 . DC 7 AIRCRAFT  
 MCDONNELL DOUGLAS AIRCRAFT  
 . DOUGLAS AIRCRAFT  
 . DC 7 AIRCRAFT  
 MONOPLANES  
 . DC 7 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . CARGO AIRCRAFT  
 . DC 7 AIRCRAFT  
 RT ∞ AIRCRAFT  
 PASSENGER AIRCRAFT

**DC 8 AIRCRAFT**

UF DOUGLAS DC-8 AIRCRAFT  
 GS COMMERCIAL AIRCRAFT  
 . DC 8 AIRCRAFT  
 JET AIRCRAFT  
 . TURBOFAN AIRCRAFT  
 . DC 8 AIRCRAFT  
 MCDONNELL DOUGLAS AIRCRAFT  
 . DOUGLAS AIRCRAFT  
 . DC 8 AIRCRAFT  
 MONOPLANES  
 . DC 8 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . DC 8 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . DC 8 AIRCRAFT  
 RT ∞ AIRCRAFT

**DC 9 AIRCRAFT**

UF DOUGLAS DC-9 AIRCRAFT  
 GS COMMERCIAL AIRCRAFT  
 . DC 9 AIRCRAFT  
 JET AIRCRAFT  
 . DC 9 AIRCRAFT  
 MCDONNELL DOUGLAS AIRCRAFT  
 . DOUGLAS AIRCRAFT  
 . DC 9 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . DC 9 AIRCRAFT  
 RT ∞ AIRCRAFT

**DE HAVILLAND AIRCRAFT**

GS DE HAVILLAND AIRCRAFT  
 . COMET 4 AIRCRAFT  
 . DH 115 AIRCRAFT  
 . DH 121 AIRCRAFT  
 . DH 125 AIRCRAFT  
 . DHC 2 AIRCRAFT

**DE HAVILLAND AIRCRAFT-(CONT.)**

. DHC 4 AIRCRAFT  
 . DHC 5 AIRCRAFT  
 RT ∞ AIRCRAFT

**DE HAVILLAND DH 106 AIRCRAFT**

USE COMET 4 AIRCRAFT

**DE HAVILLAND DH 112 AIRCRAFT**

USE DH 112 AIRCRAFT

**DE HAVILLAND DH 115 AIRCRAFT**

USE DH 115 AIRCRAFT

**DE HAVILLAND DH 121 AIRCRAFT**

USE DH 121 AIRCRAFT

**DE HAVILLAND DH 125 AIRCRAFT**

USE DH 125 AIRCRAFT

**DE HAVILLAND DHC 4 AIRCRAFT**

USE DHC 4 AIRCRAFT

**DE HAVILLAND DHC 5 AIRCRAFT**

USE DHC 5 AIRCRAFT

**DE HAVILLAND VENOM AIRCRAFT**

USE DH 112 AIRCRAFT

**DE LAVAL NOZZLES**

USE CONVERGENT-DIVERGENT NOZZLES

**DEAD RECKONING**

GS NAVIGATION  
 . DEAD RECKONING  
 RT AIR NAVIGATION  
 DIGITAL NAVIGATION  
 DOPPLER NAVIGATION  
 INERTIAL NAVIGATION  
 POLAR NAVIGATION  
 RADAR NAVIGATION  
 RADIO NAVIGATION  
 SURFACE NAVIGATION

**DEBONAIR AIRCRAFT**

USE C-33 AIRCRAFT

**DEBUGGING**

USE CHECKOUT

**DECCA NAVIGATION**

GS NAVIGATION  
 . RADIO NAVIGATION  
 . HYPERBOLIC NAVIGATION  
 . DECCA NAVIGATION  
 RT DISTANCE MEASURING EQUIPMENT  
 LORAN  
 LORAN C  
 LORAN D  
 NAVIGATION AIDS  
 SHORAN  
 SOLAR COMPASSES  
 SURFACE NAVIGATION

**DECELERATION**

UF IMPACT DECELERATION  
 GS RATES (PER TIME)  
 . ACCELERATION (PHYSICS)  
 . DECELERATION  
 . SPIN REDUCTION  
 RT ANGULAR ACCELERATION  
 BRAKING  
 DAMPING  
 IMPACT  
 IMPACT ACCELERATION  
 LANDING LOADS  
 PHYSIOLOGICAL ACCELERATION  
 ∞ REDUCTION  
 RETARDING  
 RETROFIRING  
 RETROTHRUST  
 STOPPING  
 TAPERING  
 THRUST REVERSAL

**DECELERATORS**

USE BRAKES (FOR ARRESTING MOTION)

**DECLINATION**

RT MAPPING  
 NAVIGATION

## DECOMPRESSION

### DECOMPRESSION

USE PRESSURE REDUCTION

### DECOYS

GS DECOYS  
 . BALLISTIC MISSILE DECOYS  
 . BLUE GOOSE MISSILE  
 . QUAIL MISSILE  
 . REENTRY DECOYS  
 RT COUNTERMEASURES  
 DUMMIES

### DEEP WATER

GS WATER  
 . DEEP WATER  
 RT OCEAN BOTTOM  
 OCEANOGRAPHY  
 OCEANS  
 SEAS

### DEFLAGRATION

GS COMBUSTION  
 . DEFLAGRATION  
 RT BACKFIRE  
 FIRES  
 FLASHBACK

### DEFLATING

USE INFLATABLE STRUCTURES  
 PRESSURE REDUCTION

### DEFLECTORS

GS DEFLECTORS  
 . BLAST DEFLECTORS  
 . FLAME DEFLECTORS  
 RT ATTENUATORS  
 BAFFLES  
 ∞ DIFFUSERS  
 DIVERTERS  
 FLOW DEFLECTION  
 GUST ALLEVIATORS  
 REFLECTORS  
 SAFETY DEVICES  
 SHIELDING  
 SPOILERS

### DEFORMETERS

GS MEASURING INSTRUMENTS  
 . DEFORMETERS  
 RT DEFORMATION  
 DIMENSIONAL MEASUREMENT  
 EXTENSOMETERS  
 MECHANICAL MEASUREMENT  
 STRAIN GAGES  
 STRESS MEASUREMENT  
 TENSOMETERS

### DEFROSTING

RT DEICING  
 HEATING  
 ICE PREVENTION  
 MELTING  
 REFRIGERATING  
 REFRIGERATORS

### DEICERS

UF DEICING SYSTEMS  
 RT AIRFOILS  
 ANTIICING ADDITIVES  
 DEICING  
 ∞ HEATERS  
 HEATING EQUIPMENT  
 ICE PREVENTION

### DEICING

RT AIRFOILS  
 ANTIICING ADDITIVES  
 DEFROSTING  
 DEICERS  
 ∞ HEATERS  
 HEATING EQUIPMENT  
 ICE PREVENTION  
 MELTING

### DEICING SYSTEMS

USE DEICERS

### DELAYED FLAP APPROACH

UF DFA  
 GS APPROACH  
 . DELAYED FLAP APPROACH  
 RT FLAPS (CONTROL SURFACES)  
 FLIGHT PATHS  
 LANDING AIDS

### DELAYED FLAP APPROACH-(CONT.)

NASA PROGRAMS  
 NOISE REDUCTION

### DELFIN AIRCRAFT

USE L-29 JET TRAINER

### DELTA DAGGER AIRCRAFT

USE F-102 AIRCRAFT

### DELTA DART AIRCRAFT

USE F-106 AIRCRAFT

### DELTA LAUNCH VEHICLE

GS LAUNCH VEHICLES  
 . DELTA LAUNCH VEHICLE  
 RT ANIK SATELLITES  
 ANIK 1  
 ANIK 2  
 BEACON EXPLORER A  
 ESSA 1 SATELLITE  
 ESSA 2 SATELLITE  
 ESSA 3 SATELLITE  
 ESSA 4 SATELLITE  
 ESSA 5 SATELLITE  
 ESSA 6 SATELLITE  
 ESSA 7 SATELLITE  
 ESSA 8 SATELLITE  
 ESSA 9 SATELLITE  
 EXPLORER 10 SATELLITE  
 EXPLORER 12 SATELLITE  
 EXPLORER 14 SATELLITE  
 EXPLORER 15 SATELLITE  
 EXPLORER 17 SATELLITE  
 EXPLORER 18 SATELLITE  
 EXPLORER 21 SATELLITE  
 EXPLORER 26 SATELLITE  
 EXPLORER 28 SATELLITE  
 EXPLORER 29 SATELLITE  
 EXPLORER 32 SATELLITE  
 EXPLORER 33 SATELLITE  
 EXPLORER 38 SATELLITE  
 EXPLORER 43 SATELLITE  
 EXPLORER 49 SATELLITE  
 EXPLORER 55 SATELLITE  
 INTERNATIONAL MAGNETOSPHERIC  
 EXPLORER  
 OSO-C  
 OSO-1  
 OSO-2  
 OSO-4  
 OUTER PLANETS EXPLORERS  
 PIONEER 6 SPACE PROBE  
 PIONEER 7 SPACE PROBE  
 RCA SATCOM SATELLITES  
 SPACE SHUTTLE UPPER STAGE D  
 SYNCOM 1 SATELLITE  
 SYNCOM 2 SATELLITE  
 SYNCOM 3 SATELLITE  
 TIROS 2 SATELLITE  
 TIROS 3 SATELLITE  
 TIROS 4 SATELLITE  
 TIROS 5 SATELLITE  
 TIROS 6 SATELLITE  
 TIROS 7 SATELLITE  
 TIROS 8 SATELLITE  
 TIROS 9 SATELLITE  
 TIROS 10 SATELLITE

### DELTA WINGS

UF TRIANGULAR WINGS  
 GS AIRFOILS  
 . WINGS  
 . LOW ASPECT RATIO WINGS  
 . DELTA WINGS  
 . SWEPT WINGS  
 . SWEPTBACK WINGS  
 . DELTA WINGS  
 PLANFORMS  
 . WING PLANFORMS  
 . SWEPTBACK WINGS  
 . DELTA WINGS  
 RT ARROW WINGS  
 AVRO 707 AIRCRAFT  
 CARET WINGS  
 FD 2 AIRCRAFT  
 GA-5 AIRCRAFT  
 VARIABLE SWEEP WINGS  
 VATOL AIRCRAFT  
 WAVERIDERS

### DENDRITIC DRAINAGE

USE DRAINAGE PATTERNS

### DENSITOMETERS

GS MEASURING INSTRUMENTS  
 . DENSITOMETERS  
 . MICRODENSITOMETERS  
 RT GAMMA RAY ABSORPTIOMETRY  
 GRAVIMETERS  
 OPTICAL EQUIPMENT  
 OPTICAL MEASUREMENT  
 OPTICAL MEASURING INSTRUMENTS  
 PHOTOMETERS  
 PHOTON ABSORPTIOMETRY  
 TRANSMISSOMETERS

### DENSITY (MASS/VOLUME)

UF SPECIFIC GRAVITY  
 GS DENSITY (MASS/VOLUME)  
 . ATMOSPHERIC DENSITY  
 . GAS DENSITY  
 . SPACE DENSITY  
 RT ABSORPTANCE  
 ABSORPTIVITY  
 BULK MODULUS  
 BUOYANCY  
 COMPRESSIBILITY  
 DEGENERATE MATTER  
 DENSIMETERS  
 ∞ DENSITY  
 DENSITY MEASUREMENT  
 HYDROMETERS  
 INTERNAL FRICTION  
 ISOPYCNIC PROCESSES  
 LEWIS NUMBERS  
 OPACITY  
 PERMEABILITY  
 ∞ PHYSICAL PROPERTIES  
 POROSITY  
 PYCNOMETERS  
 STOPPING POWER  
 TRANSMISSIVITY  
 TRANSMITTANCE  
 TRANSPARENCE  
 ULTRASONIC DENSIMETERS  
 VISCOSITY  
 VOID RATIO  
 WEIGHT MEASUREMENT

### DENSITY (NUMBER/VOLUME)

GS DENSITY (NUMBER/VOLUME)  
 . METEOROID CONCENTRATION  
 . PACKING DENSITY  
 . PARTICLE DENSITY (CONCENTRATION)  
 . ELECTRON DENSITY  
 (CONCENTRATION)  
 . CARRIER DENSITY (SOLID STATE)  
 . ELECTRON DENSITY PROFILES  
 . ION DENSITY (CONCENTRATION)  
 . IONOSPHERIC ION DENSITY  
 . MAGNETOSPHERIC ION DENSITY  
 . MAGNETOSPHERIC PROTON  
 DENSITY  
 . ELECTRON DISTRIBUTION  
 . ELECTRON DENSITY PROFILES  
 . ION DENSITY (CONCENTRATION)  
 . IONOSPHERIC ION DENSITY  
 . MAGNETOSPHERIC ION DENSITY  
 . MAGNETOSPHERIC PROTON  
 DENSITY  
 . PROTON DENSITY  
 (CONCENTRATION)  
 . MAGNETOSPHERIC PROTON  
 DENSITY  
 . PLASMA DENSITY  
 . SPACE DENSITY  
 RT ATMOSPHERIC DENSITY  
 ∞ DENSITY

### DEPLOYMENT

RT GAME THEORY  
 LOGISTICS  
 MILITARY OPERATIONS  
 MILITARY TECHNOLOGY  
 ∞ OPERATIONS  
 PERSONNEL  
 STRATEGY  
 TACTICS

### DEPRESSURIZATION

USE PRESSURE REDUCTION

### DESCENT

GS DESCENT  
 . PARACHUTE DESCENT  
 RT APPROACH  
 ASCENT  
 FLIGHT PATHS  
 GLIDING  
 REENTRY



**DESCENT-(CONT.)**

UNCONTROLLED REENTRY  
(SPACECRAFT)

**DESCENT PROPULSION SYSTEMS**

GS PROPULSION  
 . DESCENT PROPULSION SYSTEMS  
 . PROPULSION SYSTEM CONFIGURATIONS  
 . DESCENT PROPULSION SYSTEMS  
 RT SPACECRAFT PROPULSION  
 ∞ SYSTEMS

**DESCENT TRAJECTORIES**

GS TRAJECTORIES  
 . DESCENT TRAJECTORIES  
 . REENTRY TRAJECTORIES  
 RT ASCENT TRAJECTORIES  
 . ATMOSPHERIC ENTRY  
 . BALLISTIC TRAJECTORIES  
 . COASTING FLIGHT  
 . FALLING  
 . FLIGHT MECHANICS  
 . MANNED REENTRY  
 . MIDCOURSE TRAJECTORIES  
 . MISSILE TRAJECTORIES  
 . PARABOLIC FLIGHT  
 . REENTRY  
 . REENTRY GUIDANCE  
 . SPACECRAFT TRAJECTORIES  
 . TERMINAL GUIDANCE

**DESIGN**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)*  
 UF TAILORING  
 RT AERODYNAMIC CONFIGURATIONS  
 . AIRCRAFT DESIGN  
 . AMPLIFIER DESIGN  
 . ANTENNA DESIGN  
 . COMPUTER AIDED DESIGN  
 . COMPUTER DESIGN  
 . COMPUTER SYSTEMS DESIGN  
 . CONSTRUCTION  
 . CONTROL SYSTEMS DESIGN  
 . DESIGN ANALYSIS  
 . DESIGN TO COST  
 . DIMENSIONS  
 . DRAFTING MACHINES  
 . ENGINE DESIGN  
 . ENGINEERING DRAWINGS  
 . EQUIPMENT SPECIFICATIONS  
 . ESTIMATING  
 . EXPERIMENT DESIGN  
 . FACTORIAL DESIGN  
 . FUNCTIONAL DESIGN SPECIFICATIONS  
 . HELICOPTER DESIGN  
 . IPAD  
 . LAYOUTS  
 . LENS DESIGN  
 . LOGIC DESIGN  
 . MISSILE DESIGN  
 . NOZZLE DESIGN  
 . OPTIMIZATION  
 . PLANNING  
 . PLANT DESIGN  
 . PRESSURE VESSEL DESIGN  
 . PRODUCT DEVELOPMENT  
 . REACTOR DESIGN  
 . RELIABILITY  
 . RESEARCH  
 . RESEARCH AND DEVELOPMENT  
 . ROCKET ENGINE DESIGN  
 . SATELLITE DESIGN  
 . SPACECRAFT DESIGN  
 . STRUCTURAL DESIGN  
 . STRUCTURAL DESIGN CRITERIA  
 ∞ SYNTHESIS  
 . SYSTEMS ENGINEERING

**DESPINNING**

USE SPIN REDUCTION

**DESTABILIZATION**

RT SPIN REDUCTION  
 . TUMBLING MOTION

**DESTROYER AIRCRAFT**

USE B-66 AIRCRAFT

**DESTRUCTION**

RT ABORTED MISSIONS  
 . ACCIDENTS  
 . BREAKING  
 . CRACKING (FRACTURING)

**DESTRUCTION-(CONT.)**

DAMAGE  
 . DESTRUCTIVE TESTS  
 . FAILURE  
 . FATIGUE (MATERIALS)  
 . FLIGHT HAZARDS  
 . FLIGHT SAFETY  
 . LETHALITY  
 . SPACECRAFT BREAKUP  
 . STRESSES

**DESTRUCTIVE TESTS**

GS DESTRUCTIVE TESTS  
 . BURST TESTS  
 RT BEND TESTS  
 . COMPRESSION TESTS  
 . CORROSION TESTS  
 . DESTRUCTION  
 . DROP TESTS  
 . FATIGUE TESTS  
 . IMPACT TESTS  
 . LOAD TESTS  
 ∞ MATERIALS TESTS  
 . NONDESTRUCTIVE TESTS  
 . TENSILE TESTS  
 ∞ TESTS  
 . VIBRATION TESTS  
 . WEAR TESTS

**DESYNCHRONIZATION (BIOLOGY)**

GS BIOLOGICAL EFFECTS  
 . DESYNCHRONIZATION (BIOLOGY)  
 . DISORIENTATION  
 . DESYNCHRONIZATION (BIOLOGY)  
 . PSYCHOLOGICAL EFFECTS  
 . DESYNCHRONIZATION (BIOLOGY)  
 RT JET LAG  
 . PHYSIOLOGICAL RESPONSES  
 . RHYTHM (BIOLOGY)

**DETERMINATION**

USE MEASUREMENT

**DETONABLE GAS MIXTURES**

GS GASES  
 . GAS MIXTURES  
 . . . DETONABLE GAS MIXTURES  
 . MIXTURES  
 . . . SOLUTIONS  
 . . . GAS MIXTURES  
 . . . DETONABLE GAS MIXTURES  
 RT CHEMICAL EXPLOSIONS  
 . FIRING (IGNITING)  
 . FLAMMABILITY  
 . FLAMMABLE GASES  
 . GAS EXPLOSIONS  
 . GAS-GAS INTERACTIONS  
 . OXYACETYLENE

**DETONATION**

UF CHAPMAN-JOUGET FLAME  
 RT CHEMICAL EXPLOSIONS  
 . COMBUSTION  
 ∞ DISCHARGE  
 . EXPLOSIONS  
 . FIRING (IGNITING)  
 . FLAME PROPAGATION  
 . INITIATION  
 . PERCUSSION  
 . PRIMERS (EXPLOSIVES)  
 . PROPELLANT EXPLOSIONS  
 . ROCKET FIRING  
 . SHOCK WAVES

**DETONATION WAVES**

GS ELASTIC WAVES  
 . SHOCK WAVES  
 . . . DETONATION WAVES  
 RT COMBUSTIBLE FLOW  
 . FLAME PROPAGATION  
 . GAS EXPLOSIONS  
 . SEISMIC WAVES  
 . SOUND WAVES  
 ∞ WAVES

**DEW**

RT ACID RAIN  
 . FROST  
 . PRECIPITATION (METEOROLOGY)  
 . WATER VAPOR

**DFA**

USE DELAYED FLAP APPROACH

**DH 106 AIRCRAFT**

USE COMET 4 AIRCRAFT

**DH 112 AIRCRAFT**

UF DE HAVILLAND DH 112 AIRCRAFT  
 . DE HAVILLAND VENOM AIRCRAFT  
 . VENOM AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . DH 112 AIRCRAFT  
 . DE HAVILLAND AIRCRAFT  
 . DH 112 AIRCRAFT  
 . HAWKER SIDDELEY AIRCRAFT  
 . DH 112 AIRCRAFT  
 . JET AIRCRAFT  
 . DH 112 AIRCRAFT  
 . MONOPLANES  
 . DH 112 AIRCRAFT  
 RT ∞ AIRCRAFT

**DH 115 AIRCRAFT**

UF DE HAVILLAND DH 115 AIRCRAFT  
 . VAMPIRE AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . DH 115 AIRCRAFT  
 . DE HAVILLAND AIRCRAFT  
 . DH 115 AIRCRAFT  
 . HAWKER SIDDELEY AIRCRAFT  
 . DH 115 AIRCRAFT  
 . JET AIRCRAFT  
 . DH 115 AIRCRAFT  
 . MONOPLANES  
 . DH 115 AIRCRAFT  
 . TRAINING AIRCRAFT  
 . DH 115 AIRCRAFT  
 RT ∞ AIRCRAFT

**DH 121 AIRCRAFT**

UF DE HAVILLAND DH 121 AIRCRAFT  
 . TRIDENT AIRCRAFT  
 GS COMMERCIAL AIRCRAFT  
 . DH 121 AIRCRAFT  
 . DE HAVILLAND AIRCRAFT  
 . DH 121 AIRCRAFT  
 . HAWKER SIDDELEY AIRCRAFT  
 . DH 121 AIRCRAFT  
 . JET AIRCRAFT  
 . TURBOFAN AIRCRAFT  
 . DH 121 AIRCRAFT  
 . MONOPLANES  
 . DH 121 AIRCRAFT  
 . PASSENGER AIRCRAFT  
 . DH 121 AIRCRAFT  
 . TRANSPORT AIRCRAFT  
 . DH 121 AIRCRAFT  
 RT ∞ AIRCRAFT

**DH 125 AIRCRAFT**

UF DE HAVILLAND DH 125 AIRCRAFT  
 . HS-125 AIRCRAFT  
 . JET DRAGON AIRCRAFT  
 GS DE HAVILLAND AIRCRAFT  
 . DH 125 AIRCRAFT  
 . GENERAL AVIATION AIRCRAFT  
 . DH 125 AIRCRAFT  
 . HAWKER SIDDELEY AIRCRAFT  
 . DH 125 AIRCRAFT  
 . JET AIRCRAFT  
 . DH 125 AIRCRAFT  
 . LIGHT AIRCRAFT  
 . DH 125 AIRCRAFT  
 . MONOPLANES  
 . DH 125 AIRCRAFT  
 . PASSENGER AIRCRAFT  
 . DH 125 AIRCRAFT  
 . TRANSPORT AIRCRAFT  
 . DH 125 AIRCRAFT  
 RT ∞ AIRCRAFT

**DHC BEAVER AIRCRAFT**

USE DHC 2 AIRCRAFT

**DHC 2 AIRCRAFT**

UF DHC BEAVER AIRCRAFT  
 GS DE HAVILLAND AIRCRAFT  
 . DHC 2 AIRCRAFT  
 . GENERAL AVIATION AIRCRAFT  
 . DH 2 AIRCRAFT  
 . JET AIRCRAFT  
 . DH 2 AIRCRAFT  
 . MONOPLANES  
 . DH 2 AIRCRAFT  
 . TRANSPORT AIRCRAFT  
 . DH 2 AIRCRAFT  
 RT ∞ AIRCRAFT

## DHC 4 AIRCRAFT

### DHC 4 AIRCRAFT

- UF AC-1 AIRCRAFT  
CARIBOU AIRCRAFT  
CV-2 AIRCRAFT
- GS DE HAVILLAND DHC 4 AIRCRAFT  
DE HAVILLAND AIRCRAFT  
DHC 4 AIRCRAFT  
MONOPLANES  
DHC 4 AIRCRAFT  
TRANSPORT AIRCRAFT  
DHC 4 AIRCRAFT  
UTILITY AIRCRAFT  
DHC 4 AIRCRAFT  
V/STOL AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
DHC 4 AIRCRAFT
- RT  $\infty$  AIRCRAFT

### DHC 5 AIRCRAFT

- UF BUFFALO AIRCRAFT  
CV-7 AIRCRAFT
- GS DE HAVILLAND DHC 5 AIRCRAFT  
DE HAVILLAND AIRCRAFT  
DHC 5 AIRCRAFT  
JET AIRCRAFT  
TURBOPROP AIRCRAFT  
DHC 5 AIRCRAFT  
MONOPLANES  
DHC 5 AIRCRAFT  
TRANSPORT AIRCRAFT  
DHC 5 AIRCRAFT  
UTILITY AIRCRAFT  
DHC 5 AIRCRAFT  
V/STOL AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
DHC 5 AIRCRAFT
- RT  $\infty$  AIRCRAFT

### DIALS

- UF POINTERS
- RT DISPLAY DEVICES  
INDICATING INSTRUMENTS

### DIAMANT LAUNCH VEHICLE

- GS LAUNCH VEHICLES  
DIAMANT LAUNCH VEHICLE  
ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
DIAMANT LAUNCH VEHICLE
- RT LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES

### DIAMOND WINGS

- USE LOW ASPECT RATIO WINGS  
SWEEP WINGS

### DIATOMIC GASES

- GS GASES  
MOLECULAR GASES  
POLYATOMIC GASES  
DIATOMIC GASES

### DIESEL ENGINES

- GS ENGINES  
INTERNAL COMBUSTION ENGINES  
DIESEL ENGINES  
PISTON ENGINES  
DIESEL ENGINES
- RT LOCOMOTIVES

### DIESEL FUELS

- GS FUELS  
CHEMICAL FUELS  
HYDROCARBON FUELS  
DIESEL FUELS  
LIQUID FUELS  
DIESEL FUELS  
PRODUCTS  
PETROLEUM PRODUCTS  
DIESEL FUELS
- RT AUTOMOBILE FUELS  
GASOLINE  
INTERNAL COMBUSTION ENGINES  
KEROSENE

### DIFFERENCE EQUATIONS

- GS ANALYSIS (MATHEMATICS)  
NUMERICAL ANALYSIS  
DIFFERENCE EQUATIONS
- RT APPROXIMATION  
DIFFERENCES  
DIFFERENTIAL EQUATIONS  
 $\infty$  EQUATIONS  
FINITE DIFFERENCE THEORY  
LINEAR EVOLUTION EQUATIONS

### DIFFERENCE EQUATIONS-(CONT.)

- NONLINEAR EVOLUTION EQUATIONS  
NUMERICAL STABILITY

### DIFFERENTIAL EQUATIONS

- UF DIFFERENTIAL OPERATORS  
INTEGRODIFFERENTIAL EQUATIONS
- GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
DIFFERENTIAL EQUATIONS  
BLASIUS EQUATION  
CHANDRASEKHAR EQUATION  
COSINE SERIES  
DUFFING DIFFERENTIAL EQUATION  
FALKNER-SKAN EQUATION  
HYPERBOLIC DIFFERENTIAL EQUATIONS  
LAME WAVE EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
BIHARMONIC EQUATIONS  
BURGER EQUATION  
CAUCHY-RIEMANN EQUATIONS  
ELLIPTIC DIFFERENTIAL EQUATIONS  
MONGE-AMPERE EQUATION  
EULER-CAUCHY EQUATIONS  
FOKKER-PLANCK EQUATION  
GAUSS EQUATION  
HELMHOLTZ VORTICITY EQUATION  
LIOUVILLE EQUATIONS  
PARABOLIC DIFFERENTIAL EQUATIONS  
POISSON EQUATION  
VLASOV EQUATIONS  
RICCATI EQUATION  
VORTICITY EQUATIONS  
HELMHOLTZ VORTICITY EQUATION
- RT AIRY FUNCTION  
ALTERNATING DIRECTION IMPLICIT METHODS  
ASYMPTOTIC PROPERTIES  
BACKWARD DIFFERENCING  
BESSEL FUNCTIONS  
BETHE-SALPETER EQUATION  
BOND GRAPHS  
BOUNDARY LAYER EQUATIONS  
BOUNDARY VALUE PROBLEMS  
CALCULUS  
CALCULUS OF VARIATIONS  
CAUCHY PROBLEM  
CRANK-NICHOLSON METHOD  
DIFFERENCE EQUATIONS  
DIFFERENTIAL ANALYZERS  
DIRICHLET PROBLEM  
DISTRIBUTED PARAMETER SYSTEMS  
 $\infty$  EQUATIONS  
FLOQUET THEOREM  
FOURIER ANALYSIS  
FOURIER-BESSEL TRANSFORMATIONS  
FUNCTIONAL INTEGRATION  
GREEN'S FUNCTIONS  
HALF PLANES  
HANKEL FUNCTIONS  
HILL DETERMINANT  
INTEGRAL EQUATIONS  
INTEGRALS  
LAGRANGE MULTIPLIERS  
LAME FUNCTIONS  
LAPLACE TRANSFORMATION  
LIAPUNOV FUNCTIONS  
LINEAR EQUATIONS  
LINEARITY  
LIPSCHITZ CONDITION  
MATHIEU FUNCTION  
MAXIMUM PRINCIPLE  
MILNE METHOD  
NEUMANN PROBLEM  
NONLINEAR EQUATIONS  
NONLINEARITY  
NUMERICAL ANALYSIS  
NUMERICAL DIFFERENTIATION  
NUMERICAL INTEGRATION  
NUMERICAL STABILITY  
OPERATIONAL CALCULUS  
PFAFF EQUATION  
POTENTIAL THEORY  
PREDICTOR-CORRECTOR METHODS  
RIEMANN WAVES  
RIESZ THEOREM  
SCHAUDER FIXPOINT THEOREM  
SCHMIDT METHOD  
SPECTRAL METHODS  
STABILITY DERIVATIVES  
STURM-LIOUVILLE THEORY  
VECTOR ANALYSIS  
WHITTAKER FUNCTIONS

### DIFFERENTIAL INTERFEROMETRY

- GS INTERFEROMETRY  
DIFFERENTIAL INTERFEROMETRY
- RT FLOW VISUALIZATION  
HOLOGRAPHY  
SCHLIEREN PHOTOGRAPHY

### DIFFERENTIAL OPERATORS

- USE DIFFERENTIAL EQUATIONS  
OPERATORS (MATHEMATICS)

### DIFFERENTIAL PRESSURE

- GS PRESSURE  
DIFFERENTIAL PRESSURE
- RT PRESSURE DISTRIBUTION  
PRESSURE GRADIENTS  
PRESSURE MEASUREMENT

### DIFFERENTIAL THERMAL ANALYSIS

- USE THERMAL ANALYSIS

### DIFFRACTION LIMITED CAMERAS

- GS OPTICAL EQUIPMENT  
CAMERAS  
DIFFRACTION LIMITED CAMERAS  
PHOTOGRAPHIC EQUIPMENT  
CAMERAS  
DIFFRACTION LIMITED CAMERAS
- RT ASTRONOMICAL PHOTOGRAPHY  
SPACEBORNE PHOTOGRAPHY  
SPACEBORNE TELESCOPES

### DIFFRACTOMETERS

- GS MEASURING INSTRUMENTS  
OPTICAL MEASURING INSTRUMENTS  
DIFFRACTOMETERS  
OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
DIFFRACTOMETERS
- RT CHEMICAL ANALYSIS  
DIFFRACTION  
DIFFRACTION PATTERNS  
ETALONS  
GONIOMETERS  
INTERFEROMETERS  
MACH-ZEHNDER INTERFEROMETERS  
OPTICAL MEASUREMENT  
PHOTOGONIOMETERS  
SPECTROMETERS  
WAVE FRONT RECONSTRUCTION

### $\infty$ DIFFUSERS

- SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)
- UF SHOCK DIFFUSERS
- RT AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
ATTENUATORS  
BAFFLES  
BOUNDARY LAYER SEPARATION  
CEILINGS (ARCHITECTURE)  
CHOKES  
CONICAL FLOW  
DEFLECTORS  
DIFFUSION  
DIVERTERS  
ENGINE INLETS  
EXHAUST DIFFUSERS  
HYPERSONIC INLETS
- $\infty$  ILLUMINATION  
INLET FLOW  
INLET NOZZLES  
LOUVERS  
MIXERS  
MUFFLERS
- $\infty$  NOZZLES  
POROUS WALLS  
PRESSURE RECOVERY  
SEPARATORS  
SPRAYERS  
SUPERSONIC DIFFUSERS  
VANELESS DIFFUSERS  
VENTILATORS

### DIFFUSION

- UF DIFFUSION EFFECT  
PERFUSION
- GS DIFFUSION  
AMBIPOLAR DIFFUSION  
ATMOSPHERIC DIFFUSION  
GASEOUS DIFFUSION  
GASEOUS SELF-DIFFUSION  
MAGNETIC DIFFUSION  
MOLECULAR DIFFUSION

**DIFFUSION-(CONT.)**

- . PARTICLE DIFFUSION
- . ELECTRON DIFFUSION
- . IONIC DIFFUSION
- . PLASMA DIFFUSION
- . SELF DIFFUSION (SOLID STATE)
- . SELF PROPAGATION
- . SPECIES DIFFUSION
- . SURFACE DIFFUSION
- . THERMAL DIFFUSION
- . TURBULENT DIFFUSION
- RT  $\infty$  ABSORPTION
- ADSORPTION
- AIR POLLUTION
- ATMOSPHERIC SCATTERING
- CHEMICAL ENGINEERING
- CIRCULATION
- DEHUMIDIFICATION
- DIALYSIS
- $\infty$  DIFFUSERS
- DIFFUSION LENGTH
- DIFFUSIVITY
- DILUTION
- DISPERSING
- $\infty$  DISPERSION
- DISSIPATION
- DISSOLVING
- DISTILLATION
- DRYING
- $\infty$  EFFECTS
- EINSTEIN EQUATIONS
- $\infty$  EQUILIBRIUM
- EVAPORATION
- EXTRACTION
- FICKS EQUATION
- GAS-METAL INTERACTIONS
- KINETIC THEORY
- MIXING
- NONPOINT SOURCES
- OSMOSIS
- PENETRATION
- PERCOLATION
- PERMEABILITY
- PERMEATING
- $\infty$  PROPAGATION
- RADIAL FLOW
- REFLECTION
- SCATTERING
- SELF ABSORPTION
- $\infty$  SEPARATION
- SOUND PROPAGATION
- SOUND WAVES
- SPRAYING
- SPREADING
- SUBLIMATION
- SURFACE PROPERTIES
- THERMOPHORESIS
- TRANSPORT PROPERTIES
- DIFFUSION COEFFICIENT**
- GS COEFFICIENTS
- . **DIFFUSION COEFFICIENT**
- . . SORET COEFFICIENT
- TRANSPORT PROPERTIES
- . **DIFFUSION COEFFICIENT**
- . . SORET COEFFICIENT
- RT ATTENUATION COEFFICIENTS
- $\infty$  EQUILIBRIUM
- FICKS EQUATION
- GASEOUS DIFFUSION
- LEWIS NUMBERS
- MASS FLOW RATE
- MOLECULAR DIFFUSION
- PARTICLE DIFFUSION
- DIFFUSION EFFECT**
- USE DIFFUSION
- DIFFUSION FLAMES**
- GS FLAMES
- . **DIFFUSION FLAMES**
- RT BOUNDARY LAYER COMBUSTION
- COMBUSTION
- DAMKOLHER NUMBER
- DIFFUSION LENGTH**
- GS DIMENSIONS
- . LENGTH
- . . **DIFFUSION LENGTH**
- DISTANCE
- . **DIFFUSION LENGTH**
- RT CARRIER TRANSPORT (SOLID STATE)
- DIFFUSION
- ELECTRON DIFFUSION
- MINORITY CARRIERS

**DIFFUSION LENGTH-(CONT.)**

- PARTICLE DIFFUSION
- SEMICONDUCTOR DEVICES
- SOLAR CELLS
- DIFFUSION THEORY**
- RT EINSTEIN EQUATIONS
- FOKKER-PLANCK EQUATION
- JACOBI INTEGRAL
- KINETIC THEORY
- KIRKENDALL EFFECT
- MONTE CARLO METHOD
- $\infty$  THEORIES
- TRANSPORT THEORY
- DIFFUSIVITY**
- RT DIFFUSION
- FLUID MECHANICS
- IMPEDANCE
- KIRKENDALL EFFECT
- MOBILITY
- NDM SEMICONDUCTOR DEVICES
- PERMEABILITY
- $\infty$  PHYSICAL PROPERTIES
- $\infty$  RESISTANCE
- SOLUBILITY
- THERMODYNAMIC PROPERTIES
- DIGITAL NAVIGATION**
- GS DIGITAL SYSTEMS
- . **DIGITAL NAVIGATION**
- NAVIGATION
- . **DIGITAL NAVIGATION**
- RT AIR NAVIGATION
- DEAD RECKONING
- INERTIAL NAVIGATION
- POLAR NAVIGATION
- SPACE NAVIGATION
- SURFACE NAVIGATION
- DIGITAL TRANSDUCERS**
- GS TRANSDUCERS
- . **DIGITAL TRANSDUCERS**
- RT INTERDIGITAL TRANSDUCERS
- DIHEDRAL ANGLE**
- GS GEOMETRY
- . EUCLIDEAN GEOMETRY
- . . ANGLES (GEOMETRY)
- . . . **DIHEDRAL ANGLE**
- RT LATERAL STABILITY
- DIHEDRAL EFFECT**
- USE LATERAL STABILITY
- DILATATIONAL WAVES**
- GS ELASTIC WAVES
- . **DILATATIONAL WAVES**
- RT LONGITUDINAL WAVES
- P WAVES
- S WAVES
- SEISMIC WAVES
- $\infty$  SHEAR
- STRETCHING
- $\infty$  WAVES
- DILATOMETERS**
- USE EXTENSOMETERS
- DILATOMETRY**
- RT EXTENSOMETERS
- $\infty$  MEASUREMENT
- THERMAL EXPANSION
- DIMENSIONAL MEASUREMENT**
- RT DEFORMETERS
- DISTANCE MEASURING EQUIPMENT
- ELLIPSOMETRY
- $\infty$  MEASUREMENT
- MICROMETERS
- SIZE DETERMINATION
- DIMENSIONLESS NUMBERS**
- GS RATIOS
- . **DIMENSIONLESS NUMBERS**
- . . BIOT NUMBER
- . . FROUDE NUMBER
- . . GRASHOF NUMBER
- . . HARTMANN NUMBER
- . . LAVAL NUMBER
- . . LEWIS NUMBERS
- . . MACH NUMBER
- . . NUSSELT NUMBER
- . . PECLET NUMBER

**DIMENSIONLESS NUMBERS-(CONT.)**

- . PRANDTL NUMBER
- . RAYLEIGH NUMBER
- . REYNOLDS NUMBER
- . . HIGH REYNOLDS NUMBER
- . . LOW REYNOLDS NUMBER
- . RICHARDSON NUMBER
- . SCHMIDT NUMBER
- . SIMILARITY NUMBERS
- . STANTON NUMBER
- . STROUHAL NUMBER
- RT DIMENSIONAL ANALYSIS
- FLUID FLOW
- HEAT TRANSFER
- $\infty$  NUMBERS
- SCALING LAWS
- DIOPHANTINE EQUATION**
- GS NUMBER THEORY
- . **DIOPHANTINE EQUATION**
- RT  $\infty$  EQUATIONS
- DIRECT LIFT CONTROLS**
- RT  $\infty$  CONTROL
- LIFT DEVICES
- $\infty$  DIRECTION
- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*
- RT AUTONOMY
- AZIMUTH
- BEARING (DIRECTION)
- DIRECTIVITY
- LINE OF SIGHT
- MANAGEMENT
- REVERSING
- DIRECTIONAL CONTROL**
- UF VECTOR CONTROL
- GS ATTITUDE CONTROL
- . **DIRECTIONAL CONTROL**
- . . THRUST VECTOR CONTROL
- RT AIRCRAFT CONTROL
- AUTOMATIC CONTROL
- $\infty$  CONTROL
- HELICOPTER CONTROL
- JET CONTROL
- LATERAL CONTROL
- LONGITUDINAL CONTROL
- MANUAL CONTROL
- MISSILE CONTROL
- $\infty$  REACTION CONTROL
- ROCKET ENGINE CONTROL
- SATELLITE ATTITUDE CONTROL
- SATELLITE CONTROL
- YAW
- DIRECTIONAL STABILITY**
- GS DYNAMIC CHARACTERISTICS
- . DYNAMIC STABILITY
- . . MOTION STABILITY
- . . . ATTITUDE STABILITY
- . . . . **DIRECTIONAL STABILITY**
- . . . . . GYROSCOPIC STABILITY
- STABILITY
- . DYNAMIC STABILITY
- . . MOTION STABILITY
- . . . ATTITUDE STABILITY
- . . . . **DIRECTIONAL STABILITY**
- . . . . . GYROSCOPIC STABILITY
- RT AERODYNAMIC STABILITY
- AIRCRAFT STABILITY
- CONTROLLABILITY
- FLOW STABILITY
- HORIZONTAL ORIENTATION
- HOVERING STABILITY
- LATERAL OSCILLATION
- LATERAL STABILITY
- LONGITUDINAL STABILITY
- ROTARY STABILITY
- SPACECRAFT STABILITY
- STABILITY AUGMENTATION
- VERTICAL ORIENTATION
- YAW
- DIRIGIBLES**
- USE AIRSHIPS
- DISCHARGE COEFFICIENT**
- GS COEFFICIENTS
- . FLOW COEFFICIENTS
- . . **DISCHARGE COEFFICIENT**
- RT AXIAL FLOW
- FLOW VELOCITY

## DISCONNECT DEVICES

### DISCHARGE COEFFICIENT-(CONT.)

INFLUENCE COEFFICIENT  
MASS FLOW FACTORS  
NOZZLE FLOW  
NOZZLE GEOMETRY  
NOZZLE THRUST COEFFICIENTS  
WALL FLOW

### DISCONNECT DEVICES

UF DISCONNECTORS  
RT CIRCUIT BREAKERS  
CONNECTORS  
DECOUPLING  
DUMPING  
EJECTION  
ELECTRIC CONNECTORS  
ELECTRIC FUSES  
ELECTRIC RELAYS  
∞ RELAY  
RELEASING

### DISCONNECTORS

USE DISCONNECT DEVICES

### DISCOVERER RECOVERY CAPSULES

UF DRC (CAPSULE)  
GS SPACE CAPSULES  
DISCOVERER RECOVERY CAPSULES  
RT RECOVERY PARACHUTES  
SPACECRAFT RECOVERY

### DISCOVERY (ORBITER)

UF SPACE SHUTTLE ORBITER 103  
GS MANNED SPACECRAFT  
SPACE SHUTTLE ORBITERS  
DISCOVERY (ORBITER)  
REENTRY VEHICLES  
RECOVERABLE SPACECRAFT  
REUSABLE SPACECRAFT  
SPACE SHUTTLE ORBITERS  
DISCOVERY (ORBITER)  
RT MANNED SPACE FLIGHT  
SPACE SHUTTLE MISSION 41-D  
SPACE SHUTTLE MISSION 51-A  
SPACE SHUTTLE MISSION 51-C  
SPACE SHUTTLE MISSION 51-D  
SPACE SHUTTLE MISSION 51-G  
SPACE SHUTTLE MISSION 51-I  
∞ SPACECRAFT

### DISKS (SHAPES)

GS DISKS (SHAPES)  
ACTUATOR DISKS  
INTERVERTEBRAL DISKS  
ROTATING DISKS  
RT ACCRETION DISKS  
AERODYNAMIC CONFIGURATIONS  
BODIES OF REVOLUTION  
CIRCULAR PLATES  
∞ DISKS  
∞ PLATES  
VIDEO DISKS

### DISLOCATIONS (MATERIALS)

GS DISLOCATIONS (MATERIALS)  
CRYSTAL DISLOCATIONS  
EDGE DISLOCATIONS  
SCREW DISLOCATIONS  
RT DISPLACEMENT  
FLOW THEORY  
∞ MATERIALS

### DISORIENTATION

SN (EXCLUDES PHYSICAL OR  
MATHEMATICAL MISALIGNMENT)  
GS DISORIENTATION  
DESYNCHRONIZATION (BIOLOGY)  
DISORDERS  
JET LAG  
RT BIOLOGICAL EFFECTS  
CORIOLIS EFFECT  
DETACHMENT  
DITHERS  
IRRATIONALITY  
MISALIGNMENT  
PSYCHOLOGICAL EFFECTS  
PSYCHOLOGY  
STAGGERING  
WEIGHTLESSNESS

### DISPENSERS

RT DISTRIBUTORS  
EJECTORS  
FEEDERS  
MATERIALS HANDLING

### DISPENSERS-(CONT.)

ROLLERS  
SPRAYERS

### DISPLACEMENT MEASUREMENT

SN (MEASUREMENT IN CHANGE OF  
POSITION)  
GS MECHANICAL MEASUREMENT  
DISPLACEMENT MEASUREMENT  
RT BORESIGHT ERROR

### DISPLAY DEVICES

UF DATA READOUT SYSTEMS  
DISPLAY SYSTEMS  
VISUAL DISPLAYS  
GS DISPLAY DEVICES  
APPROACH INDICATORS  
FLOW DIRECTION INDICATORS  
WIND VANES  
GYRO HORIZONS  
HEAD-UP DISPLAYS  
HELMET MOUNTED DISPLAYS  
KINOFORM  
MICROVISION LANDING AID  
PLASMA DISPLAY DEVICES  
POSITION INDICATORS  
PLAN POSITION INDICATORS  
RADIO DIRECTION FINDERS  
SPACECRAFT POSITION INDICATORS  
RADARSCOPES  
PLAN POSITION INDICATORS  
SPEED INDICATORS  
TACHOMETERS  
RT AIRBORNE SURVEILLANCE RADAR  
AIRCRAFT EQUIPMENT  
AIRCRAFT INSTRUMENTS  
AUTOMATIC TYPEWRITERS  
BLINKING  
CANCELLATION CIRCUITS  
CATHODE RAY TUBES  
CHARTS  
COMPUTER GRAPHICS  
CONSOLES  
CONTROL BOARDS  
CREW PROCEDURES (INFLIGHT)  
CREW PROCEDURES (PREFLIGHT)  
DATA RECORDERS  
∞ DETECTORS  
DIALS  
ELECTROCHROMISM  
FLIGHT CONTROL  
FLIGHT INSTRUMENTS  
FLYING SPOT SCANNERS  
IMAGE RECONSTRUCTION  
IMAGE TUBES  
IMAGERY  
IMAGES  
INDICATING INSTRUMENTS  
INSTRUMENT LANDING SYSTEMS  
INSTRUMENT RECEIVERS  
∞ INSTRUMENTS  
LIGHT EMITTING DIODES  
LISTS  
MAN MACHINE SYSTEMS  
MAN-COMPUTER INTERFACE  
MAP MATCHING GUIDANCE  
MONITORS  
NAVIGATION AIDS  
PERCEPTUAL ERRORS  
PHOTOGRAPHS  
PICTURE TUBES  
PLANETARIUMS  
∞ PLOTS  
PLOTTERS  
PLOTING  
PRINTERS (DATA PROCESSING)  
PROMOTION  
RADAR  
RADAR RESOLUTION  
RAPID BALLISTICS IDENTIFICATION  
RASTER SCANNING  
READING  
READOUT  
REAL TIME OPERATION  
RECEIVERS  
REMOTE CONSOLES  
∞ SCREENS  
SOLAR COMPASSES  
∞ STRIP  
∞ SYSTEMS  
TARGET SIMULATORS  
TERCOM  
VIDEO DATA  
VIDEO EQUIPMENT  
VIEWING

### DISPLAY DEVICES-(CONT.)

VISUAL AIDS  
VISUAL CONTROL  
WARNING SYSTEMS

### DISPLAY SYSTEMS

USE DISPLAY DEVICES

### DISSIPATION

UF DISSIPATORS  
GS DISSIPATION  
ENERGY DISSIPATION  
OHMIC DISSIPATION  
RT ATMOSPHERIC TURBULENCE  
ATTENUATION  
DAMPING  
DECONTAMINATION  
DEPLETION  
DIFFUSION  
DILUTION  
DISCHARGERS  
DISPERSING  
DISPOSAL  
EXHAUSTING  
POLLUTION  
PURIFICATION  
∞ REDUCTION  
REMOVAL  
WASTE DISPOSAL

### DISSIPATORS

USE DISSIPATION

### DISTANCE

GS DISTANCE  
DEBYE LENGTH  
DIFFUSION LENGTH  
MISS DISTANCE  
OPTICAL SLANT RANGE  
RADAR RANGE  
RADIO RANGE  
RANGE AND RANGE RATE TRACKING  
REENTRY RANGE  
RT AIRCRAFT PERFORMANCE  
AIRCRAFT SPECIFICATIONS  
ALTITUDE  
DEPTH  
DIMENSIONS  
FOCUSING  
GEOMETRY  
HEIGHT  
LENGTH  
POSITION (LOCATION)  
PROXIMITY  
RADAR NAVIGATION  
∞ RANGE  
RANGE (EXTREMES)  
TAKEOFF RUNS  
∞ TRAVEL

### DISTANCE MEASURING EQUIPMENT

GS MEASURING INSTRUMENTS  
DISTANCE MEASURING EQUIPMENT  
ALTIMETERS  
LASER ALTIMETERS  
RADIO ALTIMETERS  
GEODIMETERS  
RANGE FINDERS  
OPTICAL RANGE FINDERS  
LASER RANGE FINDERS  
STADIMETERS  
TELLUROMETERS  
RT AUTOMATIC FLIGHT CONTROL  
AUTOMATIC LANDING CONTROL  
DECCA NAVIGATION  
DEPTH MEASUREMENT  
DIMENSIONAL MEASUREMENT  
LORAC NAVIGATION SYSTEM  
LORAN  
LUNAR RANGEFINDING  
MICROMETERS  
NAVIGATION  
NAVIGATION AIDS  
OMNIDIRECTIONAL RADIO RANGES  
POSITION INDICATORS  
RADAR  
RADAR EQUIPMENT  
RADAR MEASUREMENT  
RADAR NAVIGATION  
RADIO NAVIGATION  
RANGE ERRORS  
SHORAN  
SOLAR COMPASSES  
SONAR  
SOUND RANGING



## DOWNRANGE

### DOWNRANGE

RT BALLISTIC RANGES  
BALLISTIC TRAJECTORIES  
FLIGHT TESTS  
IMPACT PREDICTION  
MISSILE RANGES  
RECOVERY ZONES  
TEST RANGES  
TOUCHDOWN  
TRAJECTORIES

### DOWNRANGE ANTIMISSILE MEASUREMENT PROGRAM

UF DAMP PROGRAM  
GS PROGRAMS  
DOWNRANGE ANTIMISSILE  
MEASUREMENT PROGRAM  
RT MEASUREMENT

### DOWNRANGE MEASUREMENT

RT MEASUREMENT  
TEST RANGES

### DOWNWASH

RT BACKWASH  
DRAFT  
GROUND EFFECT (AERODYNAMICS)  
HELICOPTER WAKES  
LIFT AUGMENTATION  
PERIPHERAL JET FLOW  
UPWASH  
WAKES

### DRAFT

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)  
RT BOUNDARY LAYERS  
DOWNWASH  
DRAFT (GAS FLOW)  
DRAFTING (DRAWING)  
UPWASH  
WAKES

### DRAFT (GAS FLOW)

RT DRAFT  
FLUES  
VENTILATION

### DRAG

UF DRAG EFFECT  
GS DYNAMIC CHARACTERISTICS  
DRAG  
ELECTROSTATIC DRAG  
FRICTION DRAG  
AERODYNAMIC DRAG  
SUPERSONIC DRAG  
VISCOUS DRAG  
MINIMUM DRAG  
PRESSURE DRAG  
SUPERSONIC DRAG  
WAVE DRAG  
INTERFERENCE DRAG  
SATELLITE DRAG  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMICS  
BOUNDARY LAYERS  
DRAG COEFFICIENTS  
DRAG MEASUREMENT  
FRICTION  
GRAVITATION  
GROUND EFFECT (AERODYNAMICS)  
LIFT  
SKIN FRICTION  
WAKES

### DRAG BALANCE

USE AERODYNAMIC BALANCE  
LIFT DRAG RATIO

### DRAG CHUTES

UF DROGUE PARACHUTES  
GS BRAKES (FOR ARRESTING MOTION)  
AERODYNAMIC BRAKES  
DRAG CHUTES  
DRAG DEVICES  
AERODYNAMIC BRAKES  
DRAG CHUTES  
PARACHUTES  
DRAG CHUTES  
RT AIRCRAFT BRAKES  
AIRDROPS  
BALLUTES  
RIBBON PARACHUTES  
TOWED BODIES

### DRAG COEFFICIENTS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)  
RT AERODYNAMIC COEFFICIENTS  
AERODYNAMIC DRAG  
DRAG  
HYDRODYNAMIC COEFFICIENTS

### DRAG DEVICES

UF DRAGULATORS  
GS DRAG DEVICES  
AERODYNAMIC BRAKES  
BALLUTES  
DRAG CHUTES  
PARAVULCOONS  
SPLIT FLAPS  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
SPOILERS  
RT ABORT APPARATUS  
AIRCRAFT BRAKES  
BOUNDARY LAYER CONTROL  
BRAKES (FOR ARRESTING MOTION)  
CONTROL SURFACES  
FLAPS (CONTROL SURFACES)  
LIFT DEVICES  
SKIN FRICTION  
VORTEX ALLEVIATION

### DRAG EFFECT

USE DRAG

### DRAG FORCE ANEMOMETERS

GS MEASURING INSTRUMENTS  
ANEMOMETERS  
DRAG FORCE ANEMOMETERS  
RT FLOW MEASUREMENT  
INSTRUMENTS  
VELOCITY MEASUREMENT

### DRAG MEASUREMENT

GS MECHANICAL MEASUREMENT  
DRAG MEASUREMENT  
RT AERODYNAMIC DRAG  
DRAG  
ELECTROSTATIC DRAG  
FLOW MEASUREMENT  
MEASUREMENT  
MEASURING INSTRUMENTS

### DRAG REDUCTION

RT AERODYNAMIC DRAG  
FLUID FLOW  
FRICTION  
LIFT DRAG RATIO  
REDUCTION  
RIBBLETS  
WINGLETS

### DRAGULATORS

USE BRAKES (FOR ARRESTING MOTION)  
DRAG DEVICES

### DRAINAGE PATTERNS

UF DENDRITIC DRAINAGE  
INTERLACING DRAINAGE  
RADIAL DRAINAGE PATTERNS  
RECTANGULAR DRAINAGE  
RT ARROYOS  
DIVIDES (LANDFORMS)  
FLOOD DAMAGE  
HYDROLOGY  
IRRIGATION  
MISSISSIPPI RIVER (US)  
PATTERNS  
PRECIPITATION (METEOROLOGY)  
TRIBUTARIES  
WATER EROSION  
WATER FLOW  
WATERSHEDS

### DRC (CAPSULE)

USE DISCOVERER RECOVERY CAPSULES

### DRIFT

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)  
RT DEVIATION  
DIVERGENCE

### DRIFT-(CONT.)

DRIFT (INSTRUMENTATION)  
DRIFT RATE  
FLIGHT PATHS  
IONOSPHERIC DRIFT  
STABILITY

### DRIFT (INSTRUMENTATION)

UF INSTRUMENT DRIFT  
RT ACCURACY  
CIRCUIT RELIABILITY  
DRIFT  
DRIFT RATE  
DYNAMIC STABILITY  
ERRORS  
INSTRUMENT ERRORS  
STATIC STABILITY  
TOLERANCES (MECHANICS)

### DRIFT RATE

GS RATES (PER TIME)  
DRIFT RATE  
RT DRIFT  
DRIFT (INSTRUMENTATION)  
IONOSPHERIC DRIFT  
MOBILITY  
ORBIT PERTURBATION  
ORBITAL MECHANICS  
ROTATING PLASMAS  
STABILITY  
TRAJECTORY CONTROL

### DROGUE PARACHUTES

USE DRAG CHUTES

### DROQUES

USE TOWED BODIES

### DRONE AIRCRAFT

UF DRONE HELICOPTERS  
GS DRONE VEHICLES  
DRONE AIRCRAFT  
TARGET DRONE AIRCRAFT  
FIREBEE 2 TARGET DRONE  
AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
PILOTLESS AIRCRAFT  
DRONE AIRCRAFT  
TARGET DRONE AIRCRAFT  
FIREBEE 2 TARGET DRONE  
AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
RT AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
DAST PROGRAM  
LIGHT AIRCRAFT  
MILITARY AIRCRAFT  
OBLIQUE WINGS  
REMOTELY PILOTED VEHICLES  
RESEARCH AIRCRAFT  
V/STOL AIRCRAFT

### DRONE HELICOPTERS

USE DRONE AIRCRAFT  
HELICOPTERS

### DRONE VEHICLES

GS DRONE VEHICLES  
DRONE AIRCRAFT  
TARGET DRONE AIRCRAFT  
FIREBEE 2 TARGET DRONE  
AIRCRAFT  
JINDIVIK TARGET AIRCRAFT  
RT MILITARY AIRCRAFT  
PILOTLESS AIRCRAFT  
SANDPIPER TARGET MISSILE  
VEHICLES  
WINGED VEHICLES

### DRONES FOR AERODYNAMIC AND STRUCT TEST

USE DAST PROGRAM

### DROOPED AIRFOILS

GS AERODYNAMIC CONFIGURATIONS  
DROOPED AIRFOILS  
AIRCRAFT CONFIGURATIONS  
DROOPED AIRFOILS  
AIRFOILS  
DROOPED AIRFOILS  
RT BODY-WING CONFIGURATIONS  
WING ROOTS  
WINGS

**∞ DROP**  
**SN** (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)  
**RT** DROPS (LIQUIDS)  
 GRADIENTS

**DROP SIZE**

**RT** CLOUD PHYSICS  
 CLOUDS (METEOROLOGY)  
 CONDENSATES  
 CONDENSING  
 FOG  
 HUMIDITY  
 HYDROGEN CLOUDS  
 NUCLEATION  
 PARTICLE DIFFUSION  
 PARTICLE SIZE DISTRIBUTION  
 ∞ PRECIPITATION  
 PRECIPITATION PARTICLE  
 MEASUREMENT  
 RAINDROPS  
 SIZE DISTRIBUTION

**DROP TESTS**

**UF** DROP WEIGHT TESTS  
**RT** CHARPY IMPACT TEST  
 DESTRUCTIVE TESTS  
 IMPACT TESTING MACHINES  
 IMPACT TESTS  
 NOTCH TESTS  
 SHOCK TESTS  
 ∞ TESTS

**DROP TRANSFER**

**GS** TRANSFERRING  
 . DROP TRANSFER  
**RT** ARC MELTING  
 MELTING  
 PLASMA JETS  
 REFINING

**DROP WEIGHT TESTS**

**USE** DROP TESTS

**DROPS (LIQUIDS)**

**UF** LIQUID DROPS  
**GS** PARTICLES  
 . DROPS (LIQUIDS)  
 . RAINDROPS  
**RT** AIR POLLUTION  
 CONDENSATION NUCLEI  
 CONDENSING  
 ∞ DROP  
 SPRAYERS

**DROPSONDES**

**GS** MEASURING INSTRUMENTS  
 . METEOROLOGICAL INSTRUMENTS  
 . DROPSONDES  
 . SONDES  
 . DROPSONDES  
**RT** METEOROLOGICAL BALLOONS  
 RADIOSONDES  
 RAWINSONDES

**DRYDOCKS**

**RT** ∞ PORTS  
 SEA LAUNCHING

**DSN HELICOPTER**

**USE** QH-50 HELICOPTER

**DTA (ANALYSIS)**

**USE** THERMAL ANALYSIS

**DTMB-111 GROUND EFFECT MACHINE**

**USE** GROUND EFFECT MACHINES

**DTMB-430 GROUND EFFECT MACHINE**

**USE** GROUND EFFECT MACHINES

**DUAL WING CONFIGURATIONS**

**RT** BIPLANES  
 JOINED WINGS  
 TANDEM WING AIRCRAFT  
 WINGS

**DUCTED BODIES**

**RT** ANNULAR DUCTS  
 AXISYMMETRIC BODIES  
 BLUFF BODIES  
 BLUNT BODIES  
 ∞ BODIES

**DUCTED BODIES-(CONT.)**

DUCTS  
 INTAKE SYSTEMS  
 NACELLES  
 NOSE INLETS  
 SHROUDS  
 SLENDER BODIES  
 TWO DIMENSIONAL BODIES

**DUCTED FAN ENGINES**

**GS** ENGINES  
 . AIR BREATHING ENGINES  
 . GAS TURBINE ENGINES  
 . JET ENGINES  
 . TURBOJET ENGINES  
 . DUCTED FAN ENGINES  
 . INTERNAL COMBUSTION ENGINES  
 . GAS TURBINE ENGINES  
 . JET ENGINES  
 . TURBOJET ENGINES  
 . DUCTED FAN ENGINES  
 . TURBINE ENGINES  
 . GAS TURBINE ENGINES  
 . JET ENGINES  
 . TURBOJET ENGINES  
 . DUCTED FAN ENGINES  
**RT** TURBOFAN ENGINES

**DUCTED FANS**

**RT** BLOWERS  
 FAN BLADES  
 ∞ FANS  
 LIFT FANS  
 PROPELLER FANS  
 RING WINGS  
 SHROUDED PROPELLERS  
 TURBOFANS  
 VENTILATION FANS

**DUCTED FLOW**

**GS** FLUID FLOW  
 . DUCTED FLOW  
 . KNUDSEN FLOW  
**RT** AIR FLOW  
 CHANNEL FLOW  
 CORNER FLOW  
 DUMP COMBUSTORS  
 FLOW GEOMETRY  
 FUEL FLOW  
 HEAT TRANSMISSION  
 WALL FLOW

**DUCTED PROPELLERS**

**USE** SHROUDED PROPELLERS

**DUFFING DIFFERENTIAL EQUATION**

**GS** ALGEBRA  
 . NONLINEAR EQUATIONS  
 . DUFFING DIFFERENTIAL EQUATION  
 ANALYSIS (MATHEMATICS)  
 . REAL VARIABLES  
 . DIFFERENTIAL EQUATIONS  
 . DUFFING DIFFERENTIAL EQUATION  
 . NONLINEAR EQUATIONS  
 . DUFFING DIFFERENTIAL EQUATION  
**RT** ∞ EQUATIONS  
 PROBABILITY THEORY

**DUMMY LOADS**

**USE** IMPEDANCE  
 LOADING  
 OUTPUT

**DUMP COMBUSTORS**

**GS** COMBUSTION CHAMBERS  
 . DUMP COMBUSTORS  
**RT** COMBUSTIBLE FLOW  
 COMBUSTION EFFICIENCY  
 DUCT GEOMETRY  
 DUCTED FLOW  
 ENGINE PARTS  
 FLAME HOLDERS  
 FLOW VELOCITY  
 INLET FLOW  
 RAMJET ENGINES  
 ROCKET ENGINES

**DUNGEYS WIND SHEAR MECHANISM**

**USE** WIND SHEAR

**DWELL**

**RT** DELAY  
 IGNITION SYSTEMS  
 TIMING DEVICES

**DYNA-SOAR SPACE GLIDER**

**USE** X-20 AIRCRAFT

**DYNAMIC MODELS**

**GS** MODELS  
 . DYNAMIC MODELS  
**RT** AIRCRAFT MODELS  
 BIOLOGICAL MODELS (MATHEMATICS)  
 BOND GRAPHS  
 ∞ DYNAMICS  
 MATHEMATICAL MODELS  
 OCEAN MODELS  
 PETRI NETS  
 POWERED MODELS  
 SIMILARITY THEOREM  
 SPACECRAFT MODELS  
 STATIC MODELS  
 SYSTEMS SIMULATION  
 WIND TUNNEL MODELS

**DYNAMIC PRESSURE**

**GS** DYNAMIC CHARACTERISTICS  
 . DYNAMIC PRESSURE  
 PRESSURE  
**RT** . DYNAMIC PRESSURE  
 BLAST LOADS  
 CONTACT LOADS  
 ∞ DYNAMICS  
 IMPACT LOADS  
 KINETIC THEORY  
 OVERPRESSURE  
 RIEMANN WAVES

**DYNAMIC RESPONSE**

**GS** RESPONSES  
 . DYNAMIC RESPONSE  
 . TRANSIENT RESPONSE  
**RT** AMPLIFICATION  
 DAMPING  
 ∞ DYNAMICS  
 FIBER ORIENTATION  
 ∞ FREQUENCY RESPONSE  
 IMPEDANCE  
 MODAL RESPONSE  
 PARAMETER IDENTIFICATION  
 RAMP FUNCTIONS  
 REACTION TIME  
 RESPONSE BIAS  
 ROTOR DYNAMICS  
 SENSITIVITY  
 STEP FUNCTIONS  
 STROKING TESTS  
 SYSTEM IDENTIFICATION  
 TIME CONSTANT  
 TRANSFER FUNCTIONS

**DYNAMIC STABILITY**

**GS** DYNAMIC CHARACTERISTICS  
 . DYNAMIC STABILITY  
 . COMBUSTION STABILITY  
 . FLAME STABILITY  
 . CONTROL STABILITY  
 . FREQUENCY STABILITY  
 . MOTION STABILITY  
 . AERODYNAMIC STABILITY  
 . AIRCRAFT STABILITY  
 . HOVERING STABILITY  
 . ATTITUDE STABILITY  
 . DIRECTIONAL STABILITY  
 . GYROSCOPIC STABILITY  
 . LATERAL STABILITY  
 . LONGITUDINAL STABILITY  
 . FLOW STABILITY  
 . BOUNDARY LAYER STABILITY  
 . FLAME STABILITY  
 . MAGNETOHYDRODYNAMIC  
 STABILITY  
 . WEIBEL INSTABILITY  
 . LOW SPEED STABILITY  
 . ROTARY STABILITY  
 . GYROSCOPIC STABILITY  
 . SPACECRAFT STABILITY  
 STABILITY  
 . DYNAMIC STABILITY  
 . COMBUSTION STABILITY  
 . FLAME STABILITY  
 . CONTROL STABILITY  
 . FREQUENCY STABILITY  
 . MOTION STABILITY  
 . AERODYNAMIC STABILITY  
 . AIRCRAFT STABILITY  
 . HOVERING STABILITY  
 . ATTITUDE STABILITY  
 . DIRECTIONAL STABILITY  
 . GYROSCOPIC STABILITY

## DYNAMIC TESTS

### DYNAMIC STABILITY-(CONT.)

- .... LATERAL STABILITY
- .... LONGITUDINAL STABILITY
- .... FLOW STABILITY
- .... BOUNDARY LAYER STABILITY
- .... FLAME STABILITY
- .... MAGNETOHYDRODYNAMIC STABILITY
- .... WEIBEL INSTABILITY
- .... LOW SPEED STABILITY
- .... ROTARY STABILITY
- .... GYROSCOPIC STABILITY
- .... SPACECRAFT STABILITY
- RT COUNTERBALANCES
- DAMPING
- DIMENSIONAL STABILITY
- DRIFT (INSTRUMENTATION)
- ∞ DYNAMICS
- HORIZONTAL ORIENTATION
- MISSING MASS (ASTROPHYSICS)
- RESONANT VIBRATION
- ROTOR DYNAMICS
- SPACECRAFT MOTION
- STABLE OSCILLATIONS
- STATIC STABILITY
- SURFACE STABILITY
- SYSTEMS STABILITY
- TRANSIENT RESPONSE
- VERTICAL ORIENTATION

### DYNAMIC TESTS

- RT AERODYNAMIC STABILITY
- ∞ DYNAMICS
- FLIGHT TESTS
- LOW SPEED STABILITY
- MOTION STABILITY
- SPIN DYNAMICS
- SPIN TESTS
- STATIC TESTS
- ∞ TESTS
- VIBRATION TESTS

### DYNAMOMETERS

- UF ELECTRODYNAMOMETERS
- GS ELECTRIC GENERATORS
- .... ROTATING GENERATORS
- .... DYNAMOMETERS
- MEASURING INSTRUMENTS
- .... DYNAMOMETERS
- RT ERGOMETERS
- MECHANICAL MEASUREMENT
- ∞ TEST EQUIPMENT
- THRUST MEASUREMENT
- TORQUEMETERS

## E

### E-2 AIRCRAFT

- UF HAWKEYE AIRCRAFT
- W2F AIRCRAFT
- GS AWACS AIRCRAFT
- .... E-2 AIRCRAFT
- GRUMMAN AIRCRAFT
- .... E-2 AIRCRAFT
- JET AIRCRAFT
- .... TURBOPROP AIRCRAFT
- .... E-2 AIRCRAFT
- OBSERVATION AIRCRAFT
- .... E-2 AIRCRAFT
- RT ∞ AIRCRAFT
- COMMAND AND CONTROL
- EARLY WARNING SYSTEMS
- ∞ MILITARY AIRCRAFT
- PASSENGER AIRCRAFT
- TURBOPROP ENGINES

### E-3A AIRCRAFT

- GS AWACS AIRCRAFT
- .... E-3A AIRCRAFT
- BOEING AIRCRAFT
- .... E-3A AIRCRAFT
- RT ∞ AIRCRAFT
- COMMAND AND CONTROL
- EARLY WARNING SYSTEMS
- ∞ MILITARY AIRCRAFT

### E-4A AIRCRAFT

- UF ADVANCED AIRBORNE COMMAND POST
- BOEING 747B AIRCRAFT
- GS AWACS AIRCRAFT
- .... E-4A AIRCRAFT
- BOEING AIRCRAFT

### E-4A AIRCRAFT-(CONT.)

- .... E-4A AIRCRAFT
- RT ∞ AIRCRAFT
- COMMAND AND CONTROL
- EARLY WARNING SYSTEMS
- ∞ MILITARY AIRCRAFT
- EARTH AXIS
- GS AXES (REFERENCE LINES)
- .... AXES OF ROTATION
- .... EARTH AXIS
- RT COORDINATES
- EARTH ORIENTATION
- GEODESY
- POLAR WANDERING (GEOLOGY)

### EARTH RESOURCES SURVEY AIRCRAFT

- GS RECONNAISSANCE AIRCRAFT
- .... EARTH RESOURCES SURVEY AIRCRAFT
- RT AERIAL PHOTOGRAPHY
- AERIAL RECONNAISSANCE
- ∞ AIRCRAFT
- PHOTO GEOLOGY
- PHOTORECONNAISSANCE

### EBF

- USE EXTERNALLY BLOWN FLAPS

### EBULLITION

- USE BOILING

### EC-121 AIRCRAFT

- UF R7V AIRCRAFT
- WARNING STAR AIRCRAFT
- GS LOCKHEED AIRCRAFT
- .... EC-121 AIRCRAFT
- MONOPLANES
- .... EC-121 AIRCRAFT
- TRANSPORT AIRCRAFT
- .... EC-121 AIRCRAFT
- RT ∞ AIRCRAFT
- C-121 AIRCRAFT

### ECHO 1 CARRIER ROCKET

- USE THOR DELTA LAUNCH VEHICLE

### ECHOES

- GS ECHOES
- .... AURORAL ECHOES
- .... LUNAR ECHOES
- .... LUNAR RADAR ECHOES
- .... RADAR ECHOES
- .... ANGELS (RADAR)
- .... CLUTTER
- .... LUNAR RADAR ECHOES
- .... SOLAR RADAR ECHOES
- .... VENUS RADAR ECHOES
- .... RADIO ECHOES
- .... SIGNAL REFLECTION
- RT ACOUSTICS
- CEPSTRAL ANALYSIS
- ECHO SOUNDING
- GROUND EFFECT (COMMUNICATIONS)
- NOISE (SOUND)
- REVERBERATION

### EDDIES

- USE VORTICES

### EDDINGTON APPROXIMATION

- GS ANALYSIS (MATHEMATICS)
- .... NUMERICAL ANALYSIS
- .... APPROXIMATION
- .... EDDINGTON APPROXIMATION

### EDDY CURRENTS

- SN (LIMITED TO ELECTRIC CURRENTS)
- GS ELECTRIC CURRENT
- .... EDDY CURRENTS
- RT BRAKING
- ELECTRIC CONDUCTORS
- ELECTRICAL PROPERTIES
- HYSTERESIS
- LOSSES
- MAGNETIC PROPERTIES
- ∞ PHYSICAL PROPERTIES
- PLASMA CURRENTS
- VORTICITY TRANSPORT HYPOTHESIS

### EDDY VISCOSITY

- GS TRANSPORT PROPERTIES
- .... VISCOSITY
- .... EDDY VISCOSITY

### EDDY VISCOSITY-(CONT.)

- RT FLOW CHARACTERISTICS
- FLOW RESISTANCE
- INTERNAL FRICTION
- TURBULENT FLOW
- VISCOUS DRAG
- VISCOUS FLOW

### EFFERVESCENCE

- RT BOILING
- BUBBLES
- SURFACE PROPERTIES

### EJECTION

- GS EJECTION
- .... STELLAR MASS EJECTION
- RT BAILOUT
- ∞ DISCHARGE
- DISCONNECT DEVICES
- DISPOSAL
- DUMPING
- EJECTA
- EJECTORS
- EMISSION
- EMPTYING
- ESCAPE (ABANDONMENT)
- ESCAPE SYSTEMS
- EVACUATING (TRANSPORTATION)
- EVACUATING (VACUUM)
- EXHAUSTING
- EXPULSION
- EXPULSION BLADDERS
- FLUSHING
- JETTISON SYSTEMS
- JETTISONING
- MATERIALS HANDLING
- PARACHUTE DESCENT
- RELEASING
- REMOVAL
- SHEDDING
- THROWING
- UNLOADING

### EJECTION SEATS

- GS ONBOARD EQUIPMENT
- .... AIRCRAFT EQUIPMENT
- .... EJECTION SEATS
- .... FLYING EJECTION SEATS
- SAFETY DEVICES
- .... EJECTION SEATS
- .... FLYING EJECTION SEATS
- SEATS
- .... EJECTION SEATS
- .... FLYING EJECTION SEATS
- RT ABORT APPARATUS
- AIRCRAFT SAFETY
- BAILOUT
- COCKPITS
- EJECTORS
- ESCAPE CAPSULES
- ESCAPE SYSTEMS
- JETTISON SYSTEMS
- ∞ PROPELLANT ACTUATED DEVICES

### EJECTORS

- RT DISPENSERS
- EJECTION
- EJECTION SEATS
- EXHAUST DIFFUSERS
- EXHAUST NOZZLES
- EXHAUST SYSTEMS
- FLYING EJECTION SEATS
- INJECTORS
- JET ENGINES
- JET PUMPS
- MATERIALS HANDLING
- PUMPS
- ROCKET ENGINES
- SPRAYERS
- VACUUM PUMPS

### EKMAN LAYER

- RT ATMOSPHERIC BOUNDARY LAYER
- BOUNDARY LAYER TRANSITION
- ∞ LAYERS
- MIXING LAYERS (FLUIDS)
- POROUS BOUNDARY LAYER CONTROL
- TURBULENT BOUNDARY LAYER

### ELASTIC BODIES

- RT ∞ BODIES
- ∞ ELASTIC SYSTEMS
- ELASTODYNAMICS
- ELASTOSTATICS
- PLASTIC BODIES



**ELASTIC DAMPING**

- GS DAMPING
  - . ELASTIC DAMPING
  - . . . VISCOELASTIC DAMPING
- ELASTODYNAMICS
  - . ELASTIC DAMPING
  - . . . VISCOELASTIC DAMPING
- RT RESONANCE TESTING
- VIBRATION DAMPING
- VISCOUS DAMPING

**ELASTIC WAVES**

- UF EXPANSION WAVES
- LOADING WAVES
- PRESSURE WAVES
- RAREFACTION WAVES
- GS ELASTIC WAVES
  - . CAPILLARY WAVES
  - . . GRAVITY WAVES
  - . . . BAROCLINIC WAVES
  - . . . RIPPLES
  - . COHERENT ACOUSTIC RADIATION
  - . COMPRESSION WAVES
  - . DILATATIONAL WAVES
  - . IONIC WAVES
  - . MAGNETOELASTIC WAVES
  - . . MAGNETOACOUSTIC WAVES
  - . MAGNETOHYDRODYNAMIC WAVES
  - . . PLASMA WAVES
  - . . . ELECTROSTATIC WAVES
  - . P WAVES
  - . PHONONS
  - . . PHONON BEAMS
  - . POLARIZED ELASTIC WAVES
  - . S WAVES
  - . . SH WAVES
  - . SEISMIC WAVES
  - . . LOVE WAVES
  - . . MICROSEISMS
  - . . RAYLEIGH WAVES
  - . SHOCK WAVES
  - . . DETONATION WAVES
  - . . MACH CONES
  - . . NORMAL SHOCK WAVES
  - . . OBLIQUE SHOCK WAVES
  - . . RIEMANN WAVES
  - . . SONIC BOOMS
  - . SOUND WAVES
  - . . ELECTROACOUSTIC WAVES
  - . . ION ACOUSTIC WAVES
  - . . LAMB WAVES
  - . . NOISE (SOUND)
    - . . . AERODYNAMIC NOISE
    - . . . . . BLADE SLAP NOISE
    - . . . . . PROPELLER NOISE
    - . . . AIRCRAFT NOISE
    - . . . . . BLADE SLAP NOISE
    - . . . . . JET AIRCRAFT NOISE
    - . . . . . PROPELLER NOISE
    - . . . . . SONIC BOOMS
    - . . . . . ENGINE NOISE
    - . . . . . ROCKET ENGINE NOISE
    - . . . . . THERMAL NOISE
  - . . . STRESS WAVES
  - . . . TOLLMEN-SCHLICHTING WAVES
  - . . ULTRASONIC RADIATION
- RT ACOUSTIC PROPAGATION
- ACOUSTIC SIMULATION
- ACOUSTICS
- AEOLIAN TONES
- BACKGROUND NOISE
- BACKWARD WAVES
- CNOIDAL WAVES
- COHERENT RADIATION
- COMBUSTION VIBRATION
- CONTINUOUS RADIATION
- CYLINDRICAL WAVES
- DIFFUSION WAVES
- DOPPLER EFFECT
- ELASTODYNAMICS
- ELASTOHYDRODYNAMICS
- LAME WAVE EQUATIONS
- LONGITUDINAL WAVES
- MAGNETOHYDRODYNAMIC STABILITY
- PLANE WAVES
- POLARIZED RADIATION
- PRESSURE
- PULSED RADIATION
- ∞ RADIATION
- RADIATION DISTRIBUTION
- RADIATION PRESSURE
- RAREFACTION
- REFLECTED WAVES
- REFRACTED WAVES
- SINE WAVES

**ELASTIC WAVES-(CONT.)**

- SOLITARY WAVES
- SOUND TRANSMISSION
- SPHERICAL WAVES
- STRESS PROPAGATION
- SURFACE WAVES
- TRANSVERSE WAVES
- TRAVELING WAVES
- TROPOSPHERIC WAVES
- UNDERWATER ACOUSTICS
- VIBRATION
- WAVE DISPERSION
- ∞ WAVES

**ELASTOHYDRODYNAMICS**

- GS ELASTODYNAMICS
  - . ELASTOHYDRODYNAMICS
  - . FLUID MECHANICS
  - . . FLUID DYNAMICS
  - . . . HYDRODYNAMICS
  - . . . . ELASTOHYDRODYNAMICS
  - . . . . . HYDROMECHANICS
  - . . . . . HYDRODYNAMICS
  - . . . . . ELASTOHYDRODYNAMICS
- RT BALL BEARINGS
- ELASTIC WAVES
- FRICTION MEASUREMENT
- LUBRICATION
- ROTATING CYLINDERS
- SQUEEZE FILMS
- WATER WAVES

**ELASTOMETERS**

- GS MEASURING INSTRUMENTS
  - . ELASTOMETERS
- RT ELASTIC PROPERTIES
- EXTENSOMETERS
- STRAIN GAGES

**ELDO LAUNCH VEHICLE**

- GS LAUNCH VEHICLES
  - . ELDO LAUNCH VEHICLE
  - . ROCKET VEHICLES
  - . . MULTISTAGE ROCKET VEHICLES
  - . . . ELDO LAUNCH VEHICLE
- RT ARIANE LAUNCH VEHICLE
- BLUE STREAK LAUNCH VEHICLE
- EUROPA LAUNCH VEHICLES
- EUROPEAN SPACE AGENCY
- EUROPEAN 1 SPACECRAFT

**ELECTRA AIRCRAFT**

- GS COMMERCIAL AIRCRAFT
  - . ELECTRA AIRCRAFT
  - . JET AIRCRAFT
  - . . TURBOPROP AIRCRAFT
  - . . . ELECTRA AIRCRAFT
  - . LOCKHEED AIRCRAFT
  - . . ELECTRA AIRCRAFT
  - . MONOPLANES
  - . . ELECTRA AIRCRAFT
  - . PASSENGER AIRCRAFT
  - . . ELECTRA AIRCRAFT
  - . TRANSPORT AIRCRAFT
  - . . ELECTRA AIRCRAFT
- RT ∞ AIRCRAFT

**ELECTRIC AIRCRAFT**

- USE FLY BY WIRE CONTROL

**ELECTRIC ARCS**

- GS ELECTRIC CURRENT
  - . ELECTRIC DISCHARGES
  - . . ELECTRIC ARCS
  - . . . CARBON ARCS
  - . . . MERCURY ARCS
- RT ARC CHAMBERS
- ARC DISCHARGES
- ARC GENERATORS
- ∞ ARCS
- CORONAS
- ELECTRICAL FAULTS
- FLASHOVER
- GAS DISCHARGES
- GLOW DISCHARGES
- IONIZATION
- LIGHT SOURCES
- LIGHTNING
- MAGNETOHYDRODYNAMICS
- PLANOTRONS
- PLASMA GENERATORS
- PLASMAS (PHYSICS)
- SAHA EQUATIONS
- SHORT CIRCUITS

**ELECTRIC CONTROL**

- UF ELECTROHYDRAULIC CONTROL
- RT AUTOMATIC CONTROL
  - ∞ CONTROL
  - CONTROL EQUIPMENT
  - CONTROL SYSTEMS DESIGN
  - ELECTRONIC CONTROL
  - ENGINE CONTROL
  - NUMERICAL CONTROL
  - REMOTE CONTROL
  - SOLENOID VALVES
  - VOLTAGE CONTROLLED OSCILLATORS

**ELECTRIC CORONA**

- UF CORONA DISCHARGES
- GS CORONAS
  - . ELECTRIC CORONA
  - ELECTRIC CURRENT
  - . ELECTRIC DISCHARGES
  - . . ELECTRIC CORONA
- RT ATMOSPHERIC ELECTRICITY
- ELECTROHYDRODYNAMICS
- GLOW DISCHARGES
- IONIZATION
- SOLAR CORONA
- STATIC ELECTRICITY

**ELECTRIC DISCHARGES**

- GS ELECTRIC CURRENT
  - . ELECTRIC DISCHARGES
  - . . ARC DISCHARGES
  - . . . ELECTRIC ARCS
  - . . . . CARBON ARCS
  - . . . . MERCURY ARCS
  - . . . ELECTRIC CORONA
  - . . . ELECTRIC SPARKS
  - . . . ELECTRODELESS DISCHARGES
  - . . . FLASHOVER
  - . . . GLOW DISCHARGES
  - . . . LIGHTNING
  - . . . . BALL LIGHTNING
  - . . . MULTIPACTOR DISCHARGES
  - . . . PENNING DISCHARGE
  - . . . RADIO FREQUENCY DISCHARGE
  - . . . SAINT ELMO FIRE
  - . . . TOWNSEND DISCHARGE
  - . . . GAS DISCHARGES
  - . . . . TOROIDAL DISCHARGE
  - . . . . . RING DISCHARGE
- RT AVALANCHES
- CORONAS
- ∞ DISCHARGE
- DUOPLASMATRONS
- ELECTRON EMISSION
- ELECTROSTATIC CHARGE
- ∞ FLASH
- IONIZATION
- LIGHTNING SUPPRESSION
- MOLNIYA SATELLITES
- PLASMA CURRENTS
- SPACE CHARGE
- ZENER EFFECT

**ELECTRICALLY SUSPENDED GYROSCOPES**

- USE ELECTROSTATIC GYROSCOPES

**ELECTROACOUSTICS**

- GS ACOUSTICS
  - . ELECTROACOUSTICS
- RT ELECTROACOUSTIC TRANSDUCERS
- ELECTROACOUSTIC WAVES
- SOUND TRANSDUCERS
- SURFACE ACOUSTIC WAVE DEVICES
- ULTRASONIC WAVE TRANSDUCERS
- ULTRASONICS

**ELECTRODYNAMOMETERS**

- USE DYNAMOMETERS

**ELECTROHYDRAULIC CONTROL**

- USE ELECTRIC CONTROL
- HYDRAULIC CONTROL

**ELECTROHYDRODYNAMICS**

- GS ELECTRODYNAMICS
  - . ELECTROHYDRODYNAMICS
  - . FLUID MECHANICS
  - . . FLUID DYNAMICS
  - . . . HYDRODYNAMICS
  - . . . . ELECTROHYDRODYNAMICS
  - . . . . . HYDROMECHANICS
  - . . . . . HYDRODYNAMICS
  - . . . . . ELECTROHYDRODYNAMICS
- RT ELECTRIC CORONA
- ELECTROKINETICS

## ELECTROMAGNETIC ACCELERATION

### ELECTROHYDRODYNAMICS-(CONT.)

ELECTRON GAS  
ELECTRON MOBILITY  
ION DISTRIBUTION  
IONIC MOBILITY  
MAGNETOHYDRODYNAMICS

### ELECTROMAGNETIC ACCELERATION

RT  $\infty$  ACCELERATION  
ELECTROMAGNETIC INTERACTIONS  
MAGNETIC FIELDS  
MASS DRIVERS  
PARTICLE ACCELERATION  
PLASMA ACCELERATORS

### ELECTROMAGNETIC CONTROL

USE ELECTROMAGNETS  
REMOTE CONTROL

### ELECTROMAGNETIC MEASUREMENT

SN (MEASUREMENT OF ELECTROMAGNETIC PROPERTIES, QUANTITIES OR CONDITIONS)  
GS ELECTROMAGNETIC MEASUREMENT  
ELECTROMAGNETIC NOISE MEASUREMENT  
RT BARKHAUSEN EFFECT  
EARTH TERMINAL MEASUREMENT SYSTEM  
ELECTRICAL MEASUREMENT  
ELECTROMAGNETISM  
INFRARED DETECTORS  
MAGNETIC MEASUREMENT  
MAGNETIC TRANSDUCERS  
 $\infty$  MEASUREMENT  
SIGNAL MEASUREMENT

### ELECTROMAGNETIC NOISE

UF RADIATION NOISE  
RADIO FREQUENCY NOISE  
GS ELECTROMAGNETIC INTERFERENCE  
RADIO FREQUENCY INTERFERENCE  
ELECTROMAGNETIC NOISE  
ATMOSPHERICS  
IONOSPHERICS  
DAWN CHORUS  
HISS  
SUDDEN ENHANCEMENT OF ATMOSPHERICS  
WHISTLERS  
COSMIC NOISE  
IONOSPHERIC NOISE  
WHISTLERS  
SHOT NOISE  
WHITE NOISE  
THERMAL NOISE  
RT BACKGROUND NOISE  
BACKGROUND RADIATION  
BLACKOUT (PROPAGATION)  
CHANNEL NOISE  
CHIRP SIGNALS  
EXTRATERRESTRIAL RADIATION  
GROUND EFFECT (COMMUNICATIONS)  
MICROWAVES  
MILLIMETER WAVES  
 $\infty$  NOISE  
NOISE GENERATORS  
NOISE INTENSITY  
NOISE REDUCTION  
NOISE SPECTRA  
NOISE STORMS  
NOISE TEMPERATURE  
RADAR RECEIVERS  
 $\infty$  RADIATION  
RADIO RECEIVERS  
RADIO SPECTRA  
RADIO WAVES  
RANDOM NOISE  
SIGNAL TO NOISE RATIOS  
SOLAR RADIO EMISSION  
SQUELCH CIRCUITS  
SUBMILLIMETER WAVES

### ELECTROMETERS

GS MEASURING INSTRUMENTS  
ELECTROMETERS  
RT ELECTRIC CHARGE  
ELECTRICAL MEASUREMENT  
ELECTRON COUNTERS  
GALVANOMETERS  
POTENTIOMETERS (INSTRUMENTS)  
VOLTMETERS  
WATTMETERS

### ELECTRONIC AIRCRAFT

RT  $\infty$  AIRCRAFT  
AUTOMATIC CONTROL  
ELECTRONIC COUNTERMEASURES

### ELECTRONIC AMPLIFIERS

USE AMPLIFIERS

### ELECTRONIC CONTROL

RT AUTOMATIC CONTROL  
CASCADE CONTROL  
 $\infty$  CONTROL  
CONTROL EQUIPMENT  
CONTROL SYSTEMS DESIGN  
CONTROLLERS  
CURRENT REGULATORS  
ELECTRIC CONTROL  
ELECTRIC SWITCHES  
FEEDBACK CONTROL  
HYDRAULIC CONTROL  
PNEUMATIC CONTROL  
REMOTE CONTROL  
TERMINAL CONFIGURED VEHICLE PROGRAM  
VOLTAGE REGULATORS

### ELECTRONIC TRANSDUCERS

GS ELECTRONIC EQUIPMENT  
ELECTRONIC TRANSDUCERS  
TRANSDUCERS  
RT ELECTRONIC TRANSDUCERS  
MAGNETIC TRANSDUCERS  
 $\infty$  SENSORS  
ULTRASONIC WAVE TRANSDUCERS

### ELECTORHEOLOGICAL FLUIDS

UF ER FLUIDS  
RT ELASTODYNAMICS  
RHEOLOGY

### ELECTROSTATIC CHARGE

GS ELECTRIC CHARGE  
ELECTROSTATIC CHARGE  
RT CAPACITANCE  
CHARGE DISTRIBUTION  
 $\infty$  CHARGING  
ELECTRIC DISCHARGES  
ELECTRIC FIELDS  
ELECTROSTATICS  
SCATHA SATELLITE  
STATIC ELECTRICITY  
XEROGRAPHY

### ELECTROSTATIC DRAG

GS DYNAMIC CHARACTERISTICS  
DRAG  
RT ELECTROSTATIC DRAG  
DRAG MEASUREMENT  
SATELLITE DRAG

### ELECTROSTATIC ENGINES

GS ENGINES  
ROCKET ENGINES  
ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
RT ARC JET ENGINES  
CESIUM ENGINES  
ION ENGINES  
MERCURY ION ENGINES  
MICROROCKET ENGINES  
RESTARTABLE ROCKET ENGINES  
RIT ENGINES  
SUSTAINER ROCKET ENGINES  
VERNIER ENGINES

### ELECTROSTATIC GYROSCOPES

UF ELECTRICALLY SUSPENDED  
GYROSCOPES  
ESG (GYROSCOPES)  
GS GYROSCOPES  
ELECTROSTATIC GYROSCOPES  
RT LEVITATION

### ELECTROSTATIC PRECIPITATORS

GS SEPARATORS  
PRECIPITATORS  
ELECTROSTATIC PRECIPITATORS  
RT ADSORPTION  
AIR PURIFICATION  
AIR SAMPLING  
DUST COLLECTORS  
FLY ASH  
 $\infty$  SEPARATION

### ELECTROSTATIC WAVES

GS ELASTIC WAVES  
MAGNETOHYDRODYNAMIC WAVES  
PLASMA WAVES  
ELECTROSTATIC WAVES  
RT DIFFUSION WAVES  
IONIC WAVES  
LONGITUDINAL WAVES  
MAGNETOELASTIC WAVES  
SHOCK WAVES

### ELECTROTHERMAL ENGINES

GS ENGINES  
ROCKET ENGINES  
ELECTRIC ROCKET ENGINES  
ELECTROTHERMAL ENGINES  
ARC JET ENGINES  
RESISTOJET ENGINES  
RT HIGH TEMPERATURE PROPELLANTS  
ION ENGINES  
NUCLEAR ELECTRIC PROPULSION  
PULSED JET ENGINES  
RESTARTABLE ROCKET ENGINES  
SUSTAINER ROCKET ENGINES

### ELEVATION

RT ALTIMETRY  
ALTITUDE  
CONTOURS  
HEAD (FLUID MECHANICS)  
HYDROSTATIC PRESSURE  
HYDROSTATICS  
HYPSOGRAPHY  
LOW ALTITUDE  
PRESSURE HEADS  
TOPOGRAPHY

### ELEVATION ANGLE

UF ALMUCANTAR  
GS GEOMETRY  
EUCLIDEAN GEOMETRY  
ANGLES (GEOMETRY)  
ELEVATION ANGLE  
RT ALTITUDE  
AZIMUTH  
DATUM (ELEVATION)  
FIELD OF VIEW  
LOOK ANGLES (TRACKING)  
TOPOGRAPHY

### ELEVATORS (CONTROL SURFACES)

GS AIRFOILS  
ELEVATORS (CONTROL SURFACES)  
CONTROL SURFACES  
ELEVATORS (CONTROL SURFACES)  
RT AILERONS  
 $\infty$  CONTROL  
ELEVONS  
HORIZONTAL TAIL SURFACES  
HYDROFOILS  
STABILIZERS (FLUID DYNAMICS)  
 $\infty$  SURFACES  
TABS (CONTROL SURFACES)  
TAIL ASSEMBLIES  
TAIL SURFACES

### ELEVONS

GS AIRFOILS  
ELEVONS  
CONTROL SURFACES  
ELEVONS  
RT AILERONS  
ELEVATORS (CONTROL SURFACES)  
LATERAL CONTROL  
TABS (CONTROL SURFACES)

### ELLIPSES

GS GEOMETRY  
EUCLIDEAN GEOMETRY  
ANALYTIC GEOMETRY  
CONICS  
ELLIPSES  
RT CIRCLES (GEOMETRY)

### ELLIPSOMETERS

GS MEASURING INSTRUMENTS  
OPTICAL MEASURING INSTRUMENTS  
ELLIPSOMETERS  
OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
ELLIPSOMETERS  
RT ELLIPSOMETRY  
PHOTOMETERS  
POLARIMETERS

**ELLIPSOGRAPHY**

- RT DIMENSIONAL MEASUREMENT
- ELLIPSOGRAPHY
- ELLIPSOGRAPHY
- FILM THICKNESS
- ∞ MEASUREMENT
- OPTICAL MEASUREMENT
- POLARIZED LIGHT

**ELLIPTICAL CYLINDERS**

- RT CIRCULAR CYLINDERS
- ∞ CYLINDERS
- CYLINDRICAL BODIES
- CYLINDRICAL SHELLS

**EMISSOGRAPHS**

- USE ACTINOMETERS
- RECORDING INSTRUMENTS

**EMPENNAGE**

- USE TAIL ASSEMBLIES

**EMPTYING**

- RT DISPOSAL
- DUMPING
- EJECTION
- EXPULSION
- EXPULSION BLADDERS
- JETTISONING
- MATERIALS HANDLING
- RELEASING
- REMOVAL
- SPILLING
- SPREADING
- UNLOADING

**ENCAPSULATING**

- GS COATING
- ENCAPSULATING
- COATINGS
- ENCAPSULATING
- RT CANNING
- ELECTRONIC PACKAGING
- ELECTROSTATIC BONDING
- EMBEDDING
- ∞ IMBEDDINGS
- MATERIALS HANDLING
- PACKAGING
- PLASTIC COATINGS
- POTTING COMPOUNDS
- PROTECTIVE COATINGS
- SEALING
- SHEATHS

**ENCKE METHOD**

- RT ∞ METHODOLOGY

**ENCLOSURES**

- RT AIR LOCKS
- ASTEROID CAPTURE
- ∞ BARRIERS
- BIOPAKS
- CLOSURES
- COMPARTMENTS
- ∞ CONTAINERS
- COVERINGS
- DOGHOUSES (ELECTRONICS)
- ∞ ENVELOPES
- HOUSINGS
- ∞ PENS
- PERFORATED SHELLS
- PRESSURE CHAMBERS
- PROTECTORS
- ROOMS
- SAFETY DEVICES
- SHELLS (STRUCTURAL FORMS)
- SHIELDING
- SHIPYARDS
- WALLS

**ENDEAVOUR (ORBITER)**

- GS MANNED SPACECRAFT
- SPACE SHUTTLE ORBITERS
- ENDEAVOUR (ORBITER)
- REENTRY VEHICLES
- RECOVERABLE SPACECRAFT
- REUSABLE SPACECRAFT
- SPACE SHUTTLE ORBITERS
- ENDEAVOUR (ORBITER)
- RT CHALLENGER (ORBITER)
- ∞ SPACECRAFT

**ENDORADIOSONDES**

- GS MEASURING INSTRUMENTS

**ENDORADIOSONDES-(CONT.)**

- METEOROLOGICAL INSTRUMENTS
- RADIOSONDES
- ENDORADIOSONDES
- SONDES
- RADIOSONDES
- ENDORADIOSONDES
- RADIO EQUIPMENT
- RADIO TRANSMITTERS
- RADIOSONDES
- ENDORADIOSONDES
- TRANSMITTERS
- RADIO TRANSMITTERS
- RADIOSONDES
- ENDORADIOSONDES

**ENDOTHERMIC FUELS**

- GS FUELS
- CHEMICAL FUELS
- ENDOTHERMIC FUELS
- RT CRYOGENIC ROCKET PROPELLANTS
- DOUBLE BASE PROPELLANTS
- GASEOUS ROCKET PROPELLANTS
- HYDROCARBON FUELS
- PROPELLANT DECOMPOSITION

**ENERGY EXCHANGE**

- USE ENERGY TRANSFER

**ENERGY TRANSFER**

- UF ENERGY EXCHANGE
- GS ENERGY TRANSFER
- LINEAR ENERGY TRANSFER (LET)
- RT ACOUSTIC COUPLING
- ANTENNA COUPLERS
- COUPLING CIRCUITS
- CYCLOTRON RESONANCE
- ELECTRON PUMPING
- GAS TRANSPORT
- GAS-LIQUID INTERACTIONS
- HEAT TRANSFER
- HEISENBERG THEORY
- LAGRANGE SIMILARITY HYPOTHESIS
- MASS TRANSFER
- MOMENTUM TRANSFER
- NONADIABATIC CONDITIONS
- NONISOTHERMAL PROCESSES
- NUCLEAR PUMPING
- PLASMA HEATING
- POYNTING THEOREM
- RADIATIVE TRANSFER
- TERMINAL BALLISTICS
- TRANSFERRING

**ENGINE AIRFRAME INTEGRATION**

- RT AERODYNAMIC CHARACTERISTICS
- AERODYNAMIC CONFIGURATIONS
- AIRCRAFT DESIGN
- AIRCRAFT ENGINES
- AIRFRAMES

**ENGINE ANALYZERS**

- GS MEASURING INSTRUMENTS
- ANALYZERS
- ENGINE ANALYZERS

**ENGINE CONTROL**

- GS ENGINE CONTROL
- ROCKET ENGINE CONTROL
- TURBOJET ENGINE CONTROL
- RT AIR START
- AIRCRAFT CONTROL
- AUTOMATIC CONTROL
- COMBUSTION CONTROL
- ∞ CONTROL
- ELECTRIC CONTROL
- FLIGHT INSTRUMENTS
- FUEL CONTROL
- HYDRAULIC CONTROL
- MANUAL CONTROL
- PNEUMATIC CONTROL
- REMOTE CONTROL
- SPACECRAFT CONTROL
- SPEED CONTROL
- TEMPERATURE CONTROL
- THRUST CONTROL
- VARIABLE STREAM CONTROL ENGINES

**ENGINE COOLANTS**

- GS COOLANTS
- ENGINE COOLANTS
- RT COOLING
- COOLING SYSTEMS

**ENGINE DESIGN**

- GS ENGINE DESIGN
- ROCKET ENGINE DESIGN
- RT AIRCRAFT DESIGN
- COMPUTER AIDED DESIGN
- ∞ DESIGN
- HELICOPTER DESIGN
- MISSILE DESIGN
- NOZZLE DESIGN
- PRODUCT DEVELOPMENT
- REACTOR DESIGN
- SPACECRAFT DESIGN
- STIRLING ENGINES
- VOLUMETRIC EFFICIENCY

**ENGINE FAILURE**

- GS FAILURE
- ENGINE FAILURE
- RT ABORTED MISSIONS
- ∞ CUT-OFF
- INGESTION (ENGINES)
- ∞ STALLING

**ENGINE INLETS**

- GS INTAKE SYSTEMS
- AIR INTAKES
- ENGINE INLETS
- RT BYPASS RATIO
- ∞ DIFFUSERS
- HYPERSONIC INLETS
- INLET AIRFRAME CONFIGURATIONS
- INLET NOZZLES
- INLET TEMPERATURE
- INTERNAL COMPRESSION INLETS
- NACELLES

**ENGINE MONITORING INSTRUMENTS**

- GS MEASURING INSTRUMENTS
- ENGINE MONITORING INSTRUMENTS
- RT FLIGHT INSTRUMENTS

**ENGINE NOISE**

- GS ELASTIC WAVES
- SOUND WAVES
- NOISE (SOUND)
- ENGINE NOISE
- ROCKET ENGINE NOISE
- RT AIRCRAFT NOISE
- AIRCRAFT RUNUP
- JET AIRCRAFT NOISE
- PROPELLER NOISE
- QUIET ENGINE PROGRAM

**ENGINE PARTS**

- RT CARBURETORS
- CLUTCHES
- COMBUSTION CHAMBERS
- ∞ COMPONENTS
- DUMP COMBUSTORS
- FLYWHEELS
- INTERNAL COMBUSTION ENGINES
- PISTONS
- RETIREMENT FOR CAUSE
- ROCKET LININGS
- SPARE PARTS
- TURBINE BLADES
- TURBINE WHEELS
- VALVES

**ENGINE PRIMERS**

- RT INTERNAL COMBUSTION ENGINES
- ∞ PRIMERS
- STARTING

**ENGINE STARTERS**

- GS STARTERS
- ENGINE STARTERS
- RT ENGINES
- INTERNAL COMBUSTION ENGINES
- JET ENGINES

**ENGINE TESTING LABORATORIES**

- GS LABORATORIES
- ENGINE TESTING LABORATORIES
- TEST FACILITIES
- ENGINE TESTING LABORATORIES
- RT ENGINES

**ENGINE TESTS**

- GS ENGINE TESTS
- COLD FLOW TESTS
- PREFIRING TESTS
- SPACE ELECTRIC ROCKET TESTS
- STATIC FIRING

## ENGINEERING DRAWINGS

### ENGINE TESTS-(CONT.)

RT AIRCRAFT RUNUP  
 ALTITUDE TESTS  
 CAPTIVE TESTS  
 FLIGHT TESTS  
 FUEL TESTS  
 FULL SCALE TESTS  
 GROUND TESTS  
 LUBRICANT TESTS  
 MISSILE TESTS  
 NONDESTRUCTIVE TESTS  
 PRELAUNCH TESTS  
 PROPELLANT TESTS  
 PROPULSIVE EFFICIENCY  
 ROCKET ENGINE DESIGN  
 ROCKET TEST FACILITIES  
 SERT 1 SPACECRAFT  
 SERT 2 SPACECRAFT  
 STATIC TESTS  
 STIRLING ENGINES  
 TEST FIRING  
 TEST STANDS  
 TESTING TIME  
 ∞ TESTS  
 VIBRATION TESTS

### ENGINEERING DRAWINGS

UF MECHANICAL DRAWINGS  
 GS DOCUMENTS  
 . ENGINEERING DRAWINGS  
 . BLUEPRINTS  
 DRAWINGS  
 . ENGINEERING DRAWINGS  
 . BLUEPRINTS  
 RT CIRCUIT DIAGRAMS  
 DESCRIPTIVE GEOMETRY  
 ∞ DESIGN  
 DIMENSIONS  
 GRAPHIC ARTS  
 LAYOUTS  
 LOFTING  
 REPRODUCTION (COPYING)

### ENGINES

SN (LIMITED TO MACHINES WITH  
 SELF-CONTAINED POWER SOURCES  
 FOR CONTINUOUS OPERATION-SEE  
 MOTORS FOR MACHINES UTILIZING  
 EXTERNAL POWER SOURCES FOR  
 NORMAL OPERATION)  
 UF GAS GENERATOR ENGINES  
 GS ENGINES  
 . AIR BREATHING ENGINES  
 . GAS TURBINE ENGINES  
 . JET ENGINES  
 . RAMJET ENGINES  
 . INTEGRAL ROCKET RAMJETS  
 . LOW VOLUME RAMJET ENGINES  
 . PULSEJET ENGINES  
 . SUPERSONIC COMBUSTION  
 . RAMJET ENGINES  
 . TURBORAMJET ENGINES  
 . TURBOJET ENGINES  
 . BRISTOL-SIDDELEY OLYMPUS  
 . 593 ENGINE  
 . BRISTOL-SIDDELEY VIPER  
 . ENGINE  
 . DUCTED FAN ENGINES  
 . J-33 ENGINE  
 . J-34 ENGINE  
 . J-47 ENGINE  
 . J-57 ENGINE  
 . J-57-P-20 ENGINE  
 . J-65 ENGINE  
 . J-69-T-25 ENGINE  
 . J-71 ENGINE  
 . J-73 ENGINE  
 . J-75 ENGINE  
 . J-79 ENGINE  
 . J-85 ENGINE  
 . J-93 ENGINE  
 . RA-28 ENGINE  
 . TURBOFAN ENGINES  
 . BRISTOL-SIDDELEY BS 53  
 . ENGINE  
 . CF-700 ENGINE  
 . CONVERTIBLE FAN-SHAFT  
 . ENGINES  
 . J-97 ENGINE  
 . TF-30 ENGINE  
 . TF-41 ENGINE  
 . TURBOPROP ENGINES  
 . T-34 ENGINE  
 . T-38 ENGINE  
 . T-53 ENGINE  
 . T-56 ENGINE  
 . T-64 ENGINE  
 . T-74 ENGINE  
 . T-78 ENGINE  
 . TURBORAMJET ENGINES  
 . T-58 ENGINE  
 . T-58-GE-8B ENGINE  
 . HELICOPTER ENGINES  
 . ROTARY ENGINES  
 . WANKEL ENGINES  
 . JATO ENGINES  
 . MARQUARDT R4D ENGINE  
 . PISTON ENGINES  
 . DIESEL ENGINES  
 . FREE-PISTON ENGINES  
 . STIRLING ENGINES  
 . PULSED JET ENGINES  
 . ROCKET ENGINES  
 . BOOSTER ROCKET ENGINES  
 . AJ-10 ENGINE  
 . ALGOL ENGINE  
 . APOGEE BOOST MOTORS  
 . H-1 ENGINE  
 . LR-87-AJ-5 ENGINE  
 . M-1 ENGINE  
 . M-55 ENGINE  
 . MA-2 ENGINE  
 . MA-3 ENGINE  
 . MA-5 ENGINE  
 . NIKE BOOSTER ROCKET ENGINES  
 . P-1 ENGINE  
 . ROCKET ENGINE 9KS-11000  
 . SPACE SHUTTLE BOOSTERS  
 . ADVANCED SOLID ROCKET  
 . MOTOR (STS)  
 . X-405 ENGINE  
 . DUCTED ROCKET ENGINES  
 . ELECTRIC ROCKET ENGINES  
 . ELECTROSTATIC ENGINES  
 . ELECTROTHERMAL ENGINES  
 . ARC JET ENGINES  
 . RESISTOJET ENGINES  
 . ION ENGINES

### ENGINES-(CONT.)

. . . . . TURBORAMJET ENGINES  
 . . . . . T-58-GE-8B ENGINE  
 . . . . . EXTERNAL COMBUSTION ENGINES  
 . . . . . STIRLING ENGINES  
 . . . . . INTERNAL COMBUSTION ENGINES  
 . . . . . DIESEL ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . HYDROGEN ENGINES  
 . . . . . JET ENGINES  
 . . . . . RAMJET ENGINES  
 . . . . . INTEGRAL ROCKET RAMJETS  
 . . . . . LOW VOLUME RAMJET ENGINES  
 . . . . . PULSEJET ENGINES  
 . . . . . SUPERSONIC COMBUSTION  
 . . . . . RAMJET ENGINES  
 . . . . . TURBORAMJET ENGINES  
 . . . . . T-63 ENGINE  
 . . . . . T-76 ENGINE  
 . . . . . TURBOJET ENGINES  
 . . . . . BRISTOL-SIDDELEY OLYMPUS  
 . . . . . 593 ENGINE  
 . . . . . BRISTOL-SIDDELEY VIPER  
 . . . . . ENGINE  
 . . . . . DUCTED FAN ENGINES  
 . . . . . J-33 ENGINE  
 . . . . . J-34 ENGINE  
 . . . . . J-47 ENGINE  
 . . . . . J-52 ENGINE  
 . . . . . J-57 ENGINE  
 . . . . . J-57-P-20 ENGINE  
 . . . . . J-65 ENGINE  
 . . . . . J-69-T-25 ENGINE  
 . . . . . J-71 ENGINE  
 . . . . . J-73 ENGINE  
 . . . . . J-75 ENGINE  
 . . . . . J-79 ENGINE  
 . . . . . J-85 ENGINE  
 . . . . . J-93 ENGINE  
 . . . . . RA-28 ENGINE  
 . . . . . TURBOFAN ENGINES  
 . . . . . BRISTOL-SIDDELEY BS 53  
 . . . . . ENGINE  
 . . . . . CF-700 ENGINE  
 . . . . . CONVERTIBLE FAN-SHAFT  
 . . . . . ENGINES  
 . . . . . J-97 ENGINE  
 . . . . . TF-30 ENGINE  
 . . . . . TF-41 ENGINE  
 . . . . . TURBOPROP ENGINES  
 . . . . . T-34 ENGINE  
 . . . . . T-38 ENGINE  
 . . . . . T-53 ENGINE  
 . . . . . T-56 ENGINE  
 . . . . . T-64 ENGINE  
 . . . . . T-74 ENGINE  
 . . . . . T-78 ENGINE  
 . . . . . TURBORAMJET ENGINES  
 . . . . . T-58 ENGINE  
 . . . . . T-58-GE-8B ENGINE  
 . . . . . HELICOPTER ENGINES  
 . . . . . ROTARY ENGINES  
 . . . . . WANKEL ENGINES  
 . . . . . JATO ENGINES  
 . . . . . MARQUARDT R4D ENGINE  
 . . . . . PISTON ENGINES  
 . . . . . DIESEL ENGINES  
 . . . . . FREE-PISTON ENGINES  
 . . . . . STIRLING ENGINES  
 . . . . . PULSED JET ENGINES  
 . . . . . ROCKET ENGINES  
 . . . . . BOOSTER ROCKET ENGINES  
 . . . . . AJ-10 ENGINE  
 . . . . . ALGOL ENGINE  
 . . . . . APOGEE BOOST MOTORS  
 . . . . . H-1 ENGINE  
 . . . . . LR-87-AJ-5 ENGINE  
 . . . . . M-1 ENGINE  
 . . . . . M-55 ENGINE  
 . . . . . MA-2 ENGINE  
 . . . . . MA-3 ENGINE  
 . . . . . MA-5 ENGINE  
 . . . . . NIKE BOOSTER ROCKET ENGINES  
 . . . . . P-1 ENGINE  
 . . . . . ROCKET ENGINE 9KS-11000  
 . . . . . SPACE SHUTTLE BOOSTERS  
 . . . . . ADVANCED SOLID ROCKET  
 . . . . . MOTOR (STS)  
 . . . . . X-405 ENGINE  
 . . . . . DUCTED ROCKET ENGINES  
 . . . . . ELECTRIC ROCKET ENGINES  
 . . . . . ELECTROSTATIC ENGINES  
 . . . . . ELECTROTHERMAL ENGINES  
 . . . . . ARC JET ENGINES  
 . . . . . RESISTOJET ENGINES  
 . . . . . ION ENGINES

### ENGINES-(CONT.)

. . . . . CESIUM ENGINES  
 . . . . . MERCURY ION ENGINES  
 . . . . . RIT ENGINES  
 . . . . . HEUS ROCKET ENGINES  
 . . . . . HOT WATER ROCKET ENGINES  
 . . . . . HYBRID PROPELLANT ROCKET  
 . . . . . ENGINES  
 . . . . . LITHERGOL ROCKET ENGINES  
 . . . . . LIQUID PROPELLANT ROCKET  
 . . . . . ENGINES  
 . . . . . AJ-10 ENGINE  
 . . . . . F-1 ROCKET ENGINE  
 . . . . . H-1 ENGINE  
 . . . . . HYDRAZINE ENGINES  
 . . . . . HYDROGEN OXYGEN ENGINES  
 . . . . . J-2 ENGINE  
 . . . . . M-1 ENGINE  
 . . . . . RL-10-A-1 ENGINE  
 . . . . . RL-10-A-3 ENGINE  
 . . . . . LIQUID AIR CYCLE ENGINES  
 . . . . . LR-62-RM-2 ENGINE  
 . . . . . LR-87-AJ-5 ENGINE  
 . . . . . LR-91-AJ-5 ENGINE  
 . . . . . LR-99 ENGINE  
 . . . . . MA-2 ENGINE  
 . . . . . MA-3 ENGINE  
 . . . . . MA-5 ENGINE  
 . . . . . OXYGEN-HYDROCARBON ROCKET  
 . . . . . ENGINES  
 . . . . . RL-10 ENGINES  
 . . . . . RL-10-A-1 ENGINE  
 . . . . . RL-10-A-3 ENGINE  
 . . . . . SPACE SHUTTLE MAIN ENGINE  
 . . . . . X-405 ENGINE  
 . . . . . XLR-99 ENGINE  
 . . . . . YLR-91-AJ-1 ENGINE  
 . . . . . M-100 ENGINE  
 . . . . . MICROROCKET ENGINES  
 . . . . . ORBIT MANEUVERING ENGINE  
 . . . . . (SPACE SHUTTLE)  
 . . . . . NOZZLELESS ROCKET ENGINES  
 . . . . . NUCLEAR ENGINE FOR ROCKET  
 . . . . . VEHICLES  
 . . . . . NUCLEAR RAMJET ENGINES  
 . . . . . NUCLEAR ROCKET ENGINES  
 . . . . . NUCLEAR LIGHTBULB ENGINES  
 . . . . . RESTARTABLE ROCKET ENGINES  
 . . . . . RETROCKET ENGINES  
 . . . . . BE-3 ENGINE  
 . . . . . REUSABLE ROCKET ENGINES  
 . . . . . SOLID PROPELLANT ROCKET  
 . . . . . ENGINES  
 . . . . . ALGOL ENGINE  
 . . . . . APOGEE BOOST MOTORS  
 . . . . . ASROC ENGINE  
 . . . . . HERCULES ENGINE  
 . . . . . M-46 ENGINE  
 . . . . . M-55 ENGINE  
 . . . . . M-56 ENGINE  
 . . . . . M-57 ENGINE  
 . . . . . NIKE BOOSTER ROCKET ENGINES  
 . . . . . P-1 ENGINE  
 . . . . . SL-3 ROCKET ENGINE  
 . . . . . SPACE SHUTTLE BOOSTERS  
 . . . . . ADVANCED SOLID ROCKET  
 . . . . . MOTOR (STS)  
 . . . . . SYNCOM APOGEE ENGINES  
 . . . . . TU-121 ENGINE  
 . . . . . TX-77 ENGINE  
 . . . . . TX-354 ENGINE  
 . . . . . X-248 ENGINE  
 . . . . . X-254 ENGINE  
 . . . . . X-258 ENGINES  
 . . . . . X-258-B1 ENGINE  
 . . . . . X-259 ENGINE  
 . . . . . XM-33 ENGINE  
 . . . . . SUSTAINER ROCKET ENGINES  
 . . . . . TURBOROCKET ENGINES  
 . . . . . ULLAGE ROCKET ENGINES  
 . . . . . UPPER STAGE ROCKET ENGINES  
 . . . . . VERNIER ENGINES  
 . . . . . SYNCOM APOGEE ENGINES  
 . . . . . TORPEDO ENGINES  
 . . . . . TURBOROCKET ENGINES  
 . . . . . ULLAGE ROCKET ENGINES  
 . . . . . VERNIER ENGINES  
 . . . . . CONTROL ROCKETS  
 . . . . . SYNCOM APOGEE ENGINES  
 . . . . . TURBINE ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . RAMJET ENGINES  
 . . . . . LOW VOLUME RAMJET ENGINES  
 . . . . . PULSEJET ENGINES

**ENGINES-(CONT.)**

..... SUPERSONIC COMBUSTION  
 ..... RAMJET ENGINES  
 ..... TURBORAMJET ENGINES  
 ..... T-63 ENGINE  
 ..... T-76 ENGINE  
 ..... TURBOJET ENGINES  
 ..... BRISTOL-SIDDELEY OLYMPUS  
 ..... 593 ENGINE  
 ..... BRISTOL-SIDDELEY VIPER  
 ..... ENGINE  
 ..... DUCTED FAN ENGINES  
 ..... J-33 ENGINE  
 ..... J-34 ENGINE  
 ..... J-47 ENGINE  
 ..... J-52 ENGINE  
 ..... J-57 ENGINE  
 ..... J-57-P-20 ENGINE  
 ..... J-65 ENGINE  
 ..... J-69-T-25 ENGINE  
 ..... J-71 ENGINE  
 ..... J-73 ENGINE  
 ..... J-75 ENGINE  
 ..... J-79 ENGINE  
 ..... J-85 ENGINE  
 ..... J-93 ENGINE  
 ..... RA-28 ENGINE  
 ..... TURBOFAN ENGINES  
 ..... BRISTOL-SIDDELEY BS 53  
 ..... ENGINE  
 ..... CF-700 ENGINE  
 ..... CONVERTIBLE FAN-SHAFT  
 ..... ENGINES  
 ..... J-97 ENGINE  
 ..... TF-30 ENGINE  
 ..... TF-41 ENGINE  
 ..... TURBOPROP ENGINES  
 ..... T-34 ENGINE  
 ..... T-38 ENGINE  
 ..... T-53 ENGINE  
 ..... T-56 ENGINE  
 ..... T-64 ENGINE  
 ..... T-74 ENGINE  
 ..... T-78 ENGINE  
 ..... TURBORAMJET ENGINES  
 ..... T-58 ENGINE  
 ..... T-58-GE-8B ENGINE  
 ..... VARIABLE CYCLE ENGINES  
 ..... VARIABLE STREAM CONTROL ENGINES  
 ..... AUXILIARY PROPULSION  
 ..... CARBURETORS  
 ..... COMBUSTION CHAMBERS  
 ..... DISPLACEMENT  
 ..... ENERGY CONVERSION EFFICIENCY  
 ..... ENGINE STARTERS  
 ..... ENGINE TESTING LABORATORIES  
 ..... EXHAUST SYSTEMS  
 ..... EXPENDABLE STAGES (SPACECRAFT)  
 ..... FUEL CONSUMPTION  
 ..... FUEL SYSTEMS  
 ..... GEOTHERMAL ENERGY CONVERSION  
 ..... HEAT SOURCES  
 ..... IGNITION SYSTEMS  
 ..... LUBRICATION  
 ..... MACHINERY  
 ..... MISSILE COMPONENTS  
 ..... MOTORS  
 ..... POWER PLANTS  
 ..... PROPULSION  
 ..... REACTION PRODUCTS  
 ..... SHUTDOWNS  
 ..... SPEED REGULATORS  
 ..... SUPERSONIC COMBUSTION  
 ..... THERMODYNAMIC EFFICIENCY  
 ..... THERMODYNAMICS  
 ..... TRANSPORTATION ENERGY  
 ..... TURBINES  
 ..... VEHICLES

**ENGLISH ELECTRIC CANBERRA AIRCRAFT**  
 USE CANBERRA AIRCRAFT

**ENSKOG-CHAPMAN THEORY**  
 USE CHAPMAN-ENSKOG THEORY

**ENSTROPHY**  
 USE VORTICITY

**ENTERPRISE (ORBITER)**  
 UF SPACE SHUTTLE ORBITER 101  
 GS MANNED SPACECRAFT  
 . SPACE SHUTTLE ORBITERS  
 . ENTERPRISE (ORBITER)  
 REENTRY VEHICLES  
 . RECOVERABLE SPACECRAFT

**ENTERPRISE (ORBITER)-(CONT.)**

.. REUSABLE SPACECRAFT  
 . SPACE SHUTTLE ORBITERS  
 . ENTERPRISE (ORBITER)  
 RT MANNED SPACE FLIGHT  
 .. SPACECRAFT

**ENTHALPY-ENTROPY DIAGRAMS**  
 USE MOLLIER DIAGRAM

**ENTRAINMENT**  
 RT AERATION  
 AEROSOLS  
 BLOWING  
 COANDA EFFECT  
 DISPERSING  
 SPRAYING  
 SUSPENDING (MIXING)

.. ENTRY  
 SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT ATMOSPHERIC ENTRY  
 REENTRY

**ENTRY GUIDANCE (STS)**  
 GS GUIDANCE (MOTION)  
 . ENTRY GUIDANCE (STS)  
 RT ATMOSPHERIC ENTRY  
 FLIGHT CONTROL  
 HYPERSONIC REENTRY  
 POINTING CONTROL SYSTEMS  
 SPACE SHUTTLES  
 SPACE TRANSPORTATION SYSTEM  
 FLIGHTS  
 SPACECRAFT REENTRY  
 TERMINAL GUIDANCE

**ENVIRONMENT SIMULATION**  
 GS SIMULATION  
 . ENVIRONMENT SIMULATION  
 . ACOUSTIC SIMULATION  
 . ALTITUDE SIMULATION  
 . SPACE ENVIRONMENT SIMULATION  
 . WEIGHTLESSNESS SIMULATION  
 . NEUTRAL BUOYANCY SIMULATION  
 . THERMAL SIMULATION  
 RT ATMOSPHERIC ENTRY SIMULATION  
 ATMOSPHERIC MODELS  
 ENVIRONMENTAL TESTS  
 FLIGHT SIMULATION

**ENVIRONMENT SIMULATORS**  
 GS SIMULATORS  
 . ENVIRONMENT SIMULATORS  
 . LUNAR GRAVITY SIMULATOR  
 . SOLAR SIMULATORS  
 . SPACE SIMULATORS  
 . HIGH VACUUM ORBITAL SIMULATOR  
 . LANGLEY COMPLEX COORDINATOR  
 RT TEST CHAMBERS

**ENVIRONMENTAL CHAMBERS**  
 USE TEST CHAMBERS

**ENVIRONMENTAL TESTS**  
 GS ENVIRONMENTAL TESTS  
 . COLD WEATHER TESTS  
 . CORROSION TESTS  
 . CORROSION TEST LOOPS  
 . SALT SPRAY TESTS  
 . HIGH TEMPERATURE TESTS  
 . LOW TEMPERATURE TESTS  
 . UNDERWATER TESTS  
 . NEUTRAL BUOYANCY SIMULATION  
 RT ASSET PROJECT  
 ELECTRONIC EQUIPMENT TESTS  
 ENVIRONMENT SIMULATION  
 HIGH ALTITUDE TESTS  
 .. MATERIALS TESTS  
 ORBITAL SPACE TESTS  
 PHYSIOLOGICAL TESTS  
 PSYCHOLOGICAL TESTS  
 REVERBERATION CHAMBERS  
 SPIN TESTS  
 TEST CHAMBERS  
 .. TESTS  
 THERMAL CYCLING TESTS  
 THERMAL VACUUM TESTS  
 VIBRATION TESTS

**EPHEMERIDES**  
 GS EPHEMERIDES

**EPHEMERIDES-(CONT.)**

.. PLANET EPHEMERIDES  
 RT ASTRONOMICAL CATALOGS  
 CELESTIAL MECHANICS  
 EPHEMERIS TIME  
 ORBITS  
 POSITION (LOCATION)

**EQUATIONS OF MOTION**  
 UF MOTION EQUATIONS  
 GS EQUATIONS OF MOTION  
 . EULER EQUATIONS OF MOTION  
 . KINETIC EQUATIONS  
 . HYDRODYNAMIC EQUATIONS  
 . HELMHOLTZ VORTICITY EQUATION  
 . KINEMATIC EQUATIONS  
 . NAVIER-STOKES EQUATION  
 . REYNOLDS EQUATION  
 RT AUTONOMY  
 BETHE-SALPETER EQUATION  
 CELESTIAL MECHANICS  
 CLASSICAL MECHANICS  
 COMPUTATIONAL FLUID DYNAMICS  
 CONTINUITY EQUATION  
 CONTROL MOMENT GYROSCOPES  
 .. DYNAMICS  
 EINSTEIN EQUATIONS  
 .. EQUATIONS  
 EQUILIBRIUM EQUATIONS  
 HAMILTON-JACOBI EQUATION  
 INERTIA PRINCIPLE  
 KINEMATICS  
 LISSAJOUS FIGURES  
 MACH INERTIA PRINCIPLE  
 MOMENTS OF INERTIA  
 MOTION AFTEREFFECTS  
 SPINNING UNGUIDED ROCKET  
 TRAJECTORY  
 STABILITY  
 SYSTEMS STABILITY  
 TRAJECTORIES  
 TRAJECTORY ANALYSIS  
 VARIABLE MASS SYSTEMS  
 VON ZEIPPEL METHOD

**EQUATIONS OF STATE**  
 UF STATE EQUATIONS  
 GS EQUATIONS OF STATE  
 . HUGONIOT EQUATION OF STATE  
 ADIABATIC EQUATIONS  
 RT BBGKY HIERARCHY  
 BOSE GEOMETRY  
 COMPRESSIBILITY  
 CONTINUITY EQUATION  
 .. EQUATIONS  
 EQUILIBRIUM EQUATIONS  
 IDEAL FLUIDS  
 IDEAL GAS  
 KINETIC THEORY  
 MOLLIER DIAGRAM  
 REAL GASES  
 THERMODYNAMICS  
 VIRIAL COEFFICIENTS

.. EQUILIBRIUM  
 SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT ACID-BASE EQUILIBRIUM  
 AEROSTATICS  
 BALANCE  
 BALANCING  
 BODY SWAY TEST  
 CHEMICAL EQUILIBRIUM  
 DIFFUSION  
 DIFFUSION COEFFICIENT  
 DYNAMIC CHARACTERISTICS  
 EQUILIBRIUM EQUATIONS  
 HEAT OF DISSOCIATION  
 HOMEOSTASIS  
 ISOSTASY  
 LIQUID-VAPOR EQUILIBRIUM  
 LOADS (FORCES)  
 MAXWELL-MOHR METHOD  
 NONEQUILIBRIUM CONDITIONS  
 ONSAGER RELATIONSHIP  
 PLASMA EQUILIBRIUM  
 RELAXATION (MECHANICS)  
 RELAXATION TIME  
 STABILITY  
 STABILIZATION  
 STATICS  
 STEADY STATE  
 SYSTEMS STABILITY  
 THERMODYNAMIC EQUILIBRIUM

## EQUILIBRIUM EQUATIONS

### EQUILIBRIUM-(CONT.)

THERMODYNAMIC PROPERTIES  
THERMODYNAMICS  
TRANSITION POINTS  
UNSTEADY STATE  
VARIABILITY  
WATER BALANCE

### EQUILIBRIUM EQUATIONS

RT ANALYSIS (MATHEMATICS)  
∞ EQUATIONS  
EQUATIONS OF MOTION  
EQUATIONS OF STATE  
∞ EQUILIBRIUM

### EQUILIBRIUM FLOW

UF STEADY STATE FLOW  
GS FLUID FLOW  
... GAS FLOW  
... EQUILIBRIUM FLOW  
... FROZEN EQUILIBRIUM FLOW  
... SHIFTING EQUILIBRIUM FLOW  
RT EYRING THEORY  
HEAT TRANSMISSION  
NONEQUILIBRIUM FLOW  
PLASMA EQUILIBRIUM  
QUASI-STEADY STATES  
STEADY FLOW

### ∞ EQUIPMENT

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
UF APPARATUS  
RT ABORT APPARATUS  
ABSORBERS (EQUIPMENT)  
ACCUMULATORS (COMPUTERS)  
AIR CONDITIONING EQUIPMENT  
AIRBORNE EQUIPMENT  
AIRCRAFT EQUIPMENT  
AIRPORT SURFACE DETECTION  
EQUIPMENT  
AUDIO EQUIPMENT  
AUTOMATIC TEST EQUIPMENT  
BEDDING EQUIPMENT  
BOMBING EQUIPMENT  
BREATHING APPARATUS  
COMMUNICATION EQUIPMENT  
COMPUTER STORAGE DEVICES  
CONSOLES  
CRYOGENIC COMPUTER STORAGE  
CRYOGENIC EQUIPMENT  
DATA PROCESSING EQUIPMENT  
DISTILLATION EQUIPMENT  
ELECTROMECHANICAL DEVICES  
ELECTRONIC EQUIPMENT  
GROUND SUPPORT EQUIPMENT  
HANDLING EQUIPMENT  
HARDWARE  
HEATING EQUIPMENT  
HYDRAULIC EQUIPMENT  
LABORATORY EQUIPMENT  
LIGHTING EQUIPMENT  
MECHANICAL DEVICES  
MEDICAL EQUIPMENT  
MINIATURE ELECTRONIC EQUIPMENT  
ONBOARD EQUIPMENT  
PERIPHERAL EQUIPMENT (COMPUTERS)  
PHOTOGRAPHIC EQUIPMENT  
PNEUMATIC EQUIPMENT  
PORTABLE EQUIPMENT  
RADAR EQUIPMENT  
RIGGING  
SAFETY DEVICES  
SELF ERECTING DEVICES  
SERVICE LIFE  
SPACECRAFT EQUIPMENT  
SURVIVAL EQUIPMENT  
SYRINGES  
TELEVISION EQUIPMENT  
∞ TEST EQUIPMENT  
WIND TUNNEL APPARATUS  
X RAY APPARATUS

### ER FLUIDS

USE ELECTORRHEOLOGICAL FLUIDS

### ERECTION

USE CONSTRUCTION

### ERGOMETERS

GS MEASURING INSTRUMENTS  
... ERGOMETERS  
RT DYNAMOMETERS

### EROSIVE BURNING

GS COMBUSTION  
... EROSION  
RT BURNOUT  
COMBUSTION TEMPERATURE  
DETERIORATION  
EROSION  
EXHAUST GASES  
FUEL COMBUSTION  
HYPERSONIC COMBUSTION  
OXIDATION  
PITTING  
PROPELLANT COMBUSTION  
SOLID PROPELLANT COMBUSTION  
TRIBOLOGY

### ERROR CORRECTING DEVICES

RT BCH CODES  
CORRECTION  
∞ DEVICES  
INSTRUMENT COMPENSATION  
REDUNDANCY ENCODING

### ESCAPE CAPSULES

GS SAFETY DEVICES  
... ESCAPE CAPSULES  
SPACE CAPSULES  
... ESCAPE CAPSULES  
RT ABORT APPARATUS  
ABORTED MISSIONS  
EJECTION SEATS  
EMERGENCY LIFE SUSTAINING  
SYSTEMS  
∞ ESCAPE  
FLYING EJECTION SEATS  
HIGH ALTITUDE ENVIRONMENTS  
LAUNCH ESCAPE SYSTEMS  
LUNAR ESCAPE DEVICES  
PARACONE  
PRESSURIZED CABINS

### ESCAPE ROCKETS

GS SAFETY DEVICES  
... ESCAPE ROCKETS  
RT ABORT APPARATUS  
ABORTED MISSIONS  
∞ ESCAPE  
ESCAPE (ABANDONMENT)  
LAUNCH ESCAPE SYSTEMS  
LUNAR ESCAPE DEVICES  
∞ ROCKETS  
∞ SPACECRAFT

### ESG (GYROSCOPES)

USE ELECTROSTATIC GYROSCOPES

### ETALONS

GS MEASURING INSTRUMENTS  
... INTERFEROMETERS  
... ETALONS  
... OPTICAL MEASURING INSTRUMENTS  
... ETALONS  
MIRRORS  
... ETALONS  
OPTICAL EQUIPMENT  
... OPTICAL MEASURING INSTRUMENTS  
... ETALONS  
RT DIFFRACTOMETERS  
FABRY-PEROT INTERFEROMETERS  
FLATNESS  
GONIOMETERS  
OPTICAL MEASUREMENT  
PHOTOgoniometers  
REFLECTORS  
RONCHI TEST  
SAGNAC EFFECT  
SPECULAR REFLECTION  
TELESCOPES  
VERY LONG BASE INTERFEROMETRY

### EULER EQUATIONS OF MOTION

GS EQUATIONS OF MOTION  
... EULER EQUATIONS OF MOTION  
RT ∞ EQUATIONS  
HYDRODYNAMICS  
MOMENTS OF INERTIA  
PRIMITIVE EQUATIONS  
RIGID STRUCTURES

### EULER-CAUCHY EQUATIONS

GS ANALYSIS (MATHEMATICS)  
... REAL VARIABLES  
... DIFFERENTIAL EQUATIONS  
... PARTIAL DIFFERENTIAL EQUATIONS  
... EULER-CAUCHY EQUATIONS

### EULER-CAUCHY EQUATIONS-(CONT.)

RT COMPLEX VARIABLES  
CONFORMAL MAPPING  
∞ EQUATIONS  
VECTOR ANALYSIS

### EULER-LAGRANGE EQUATION

UF LAGRANGE EQUATIONS OF MOTION  
RT CALCULUS OF VARIATIONS  
CASTIGLIANO VARIATIONAL THEOREM  
CLASSICAL MECHANICS  
∞ EQUATIONS  
EXTREMUM VALUES

### EULER-LAMBERT EQUATION

RT ELLIPTICAL ORBITS  
∞ EQUATIONS

### EUROPA LAUNCH VEHICLES

GS LAUNCH VEHICLES  
... EUROPA LAUNCH VEHICLES  
... EUROPA 1 LAUNCH VEHICLE  
... EUROPA 2 LAUNCH VEHICLE  
... EUROPA 3 LAUNCH VEHICLE  
... EUROPA 4 LAUNCH VEHICLE  
RT ARIANE LAUNCH VEHICLE  
ELDO LAUNCH VEHICLE  
EUROPEAN SPACE AGENCY  
EUROPEAN SPACE PROGRAMS  
∞ VEHICLES

### EUROPA 1 LAUNCH VEHICLE

GS LAUNCH VEHICLES  
... EUROPA LAUNCH VEHICLES  
... EUROPA 1 LAUNCH VEHICLE

### EUROPA 2 LAUNCH VEHICLE

GS LAUNCH VEHICLES  
... EUROPA LAUNCH VEHICLES  
... EUROPA 2 LAUNCH VEHICLE  
RT COS-B SATELLITE

### EUROPA 3 LAUNCH VEHICLE

GS LAUNCH VEHICLES  
... EUROPA LAUNCH VEHICLES  
... EUROPA 3 LAUNCH VEHICLE

### EUROPA 4 LAUNCH VEHICLE

GS LAUNCH VEHICLES  
... EUROPA LAUNCH VEHICLES  
... EUROPA 4 LAUNCH VEHICLE

### EUROPEAN AIRBUS

UF AIRBUS  
GS COMMERCIAL AIRCRAFT  
... EUROPEAN AIRBUS  
... A-300 AIRCRAFT  
... A-310 AIRCRAFT  
... A-320 AIRCRAFT  
JET AIRCRAFT  
... EUROPEAN AIRBUS  
... A-300 AIRCRAFT  
... A-310 AIRCRAFT  
... A-320 AIRCRAFT  
PASSENGER AIRCRAFT  
... EUROPEAN AIRBUS  
... A-300 AIRCRAFT  
... A-310 AIRCRAFT  
... A-320 AIRCRAFT  
TRANSPORT AIRCRAFT  
... SHORT HAUL AIRCRAFT  
... EUROPEAN AIRBUS  
... A-300 AIRCRAFT  
... A-310 AIRCRAFT  
... A-320 AIRCRAFT  
RT ∞ AIRCRAFT  
INTERNATIONAL COOPERATION

### ∞ EVACUATING

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT EVACUATING (TRANSPORTATION)  
EVACUATING (VACUUM)

### EVACUATING (TRANSPORTATION)

SN (LIMITED TO CLEARANCE OF  
PERSONNEL, ANIMALS, OR MATERIAL  
FROM A GIVEN LOCALITY)  
RT C-9 AIRCRAFT  
CASUALTIES  
CIVIL DEFENSE  
EJECTION  
ELIMINATION

**EVACUATING (TRANSPORTATION)-(CONT.)**

∞ EVACUATING  
HOSPITALS  
MOBILE QUARANTINE FACILITY  
REMOVAL  
TRANSPORTATION  
UNLOADING

**EVACUATING (VACUUM)**

UF GAS EVACUATING  
RT DRAINAGE  
EJECTION  
ELIMINATION  
∞ EVACUATING  
EXHAUSTING  
GAS POCKETS  
PURGING  
REMOVAL  
SUCTION  
VACUUM  
VACUUM PUMPS  
VENTING  
VENTS

**EVANESCENCE**

RT EVAPORATION  
SURFACE PROPERTIES  
TRANSPARATION

**EVAPORATION RATE**

GS RATES (PER TIME)  
∞ EVAPORATION RATE  
RT HEAT TRANSFER COEFFICIENTS

**EVAPORATIVE COOLING**

GS COOLING  
∞ EVAPORATIVE COOLING  
∞ FILM COOLING  
∞ SWEAT COOLING  
RT COOLING SYSTEMS  
CRYOGENIC FLUID STORAGE  
EVAPORATION  
PROPELLANT EVAPORATION  
SURFACE COOLING

**EVAPOROGRAPHY**

RT EVAPORATION  
IMAGES  
INFRARED RADIATION  
PHOTOGRAPHY

**EXCHANGERS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
RT HEAT EXCHANGERS

**EXCHANGING**

GS EXCHANGING  
∞ CHARGE EXCHANGE  
∞ RESONANCE CHARGE EXCHANGE  
∞ GAS EXCHANGE  
∞ ION EXCHANGING  
∞ SPIN EXCHANGE  
RT ∞ CONVERSION  
DEIONIZATION  
∞ SEPARATION  
∞ SHIFT  
TRANSFERRING

**EXECUTIVE AIRCRAFT**

USE GENERAL AVIATION AIRCRAFT  
PASSENGER AIRCRAFT

**EXHAUST DIFFUSERS**

RT CONICAL NOZZLES  
∞ DIFFUSERS  
EJECTORS  
∞ JET NOZZLES  
SUPERSONIC DIFFUSERS  
VANELESS DIFFUSERS

**EXHAUST EMISSION**

GS EMISSION  
∞ EXHAUST EMISSION  
RT GAS-GAS INTERACTIONS  
GAS-METAL INTERACTIONS  
HIGH TEMPERATURE GASES  
INFRARED RADIATION  
JET EXHAUST  
PARTICLE EMISSION  
POLLUTION TRANSPORT  
RELEASING  
THERMAL EMISSION

**EXHAUST FLOW SIMULATION**

GS SIMULATION  
∞ EXHAUST FLOW SIMULATION  
∞ ATMOSPHERIC ENTRY SIMULATION  
RT FLOW DISTRIBUTION  
MATHEMATICAL MODELS  
WIND TUNNELS

**EXHAUST GASES**

UF EXHAUST JETS  
GS GASES  
∞ EXHAUST GASES  
∞ FLUE GASES  
RT AIR POLLUTION  
∞ BLASTS  
COMBUSTION EFFICIENCY  
COMBUSTION PRODUCTS  
DILUENTS  
EFFLUENTS  
ENVIRONMENT EFFECTS  
EROSIVE BURNING  
EXHAUST CLOUDS  
EXHAUSTING  
FUMES  
GAS MIXTURES  
GAS RECOVERY  
INFRARED SUPPRESSION  
JET BLAST EFFECTS  
JET EXHAUST  
NOZZLE FLOW  
ODORS  
PARTICULATES  
POLLUTION TRANSPORT  
PROPULSION  
REACTION PRODUCTS  
ROCKET EXHAUST  
SMOG  
SMOKE  
SMOKE ABATEMENT  
VAPORS  
WASTE DISPOSAL  
WASTE ENERGY UTILIZATION  
WASTES

**EXHAUST JETS**

USE EXHAUST GASES

**EXHAUST NOZZLES**

GS EXHAUST NOZZLES  
∞ CONVERGENT-DIVERGENT NOZZLES  
∞ PLUG NOZZLES  
∞ SPIKE NOZZLES  
RT TURBINE EXHAUST NOZZLES  
AIR DUCTS  
ANNULAR NOZZLES  
BASE HEATING  
CONICAL NOZZLES  
DIVERGENT NOZZLES  
EJECTORS  
∞ FLOW  
INFRARED SUPPRESSION  
INLET NOZZLES  
JET ENGINES  
∞ JET NOZZLES  
NOZZLE FLOW  
NOZZLE INSERTS  
∞ NOZZLES  
OPENINGS  
OUTLETS  
ROCKET ENGINES  
SKIRTS

**EXHAUST SYSTEMS**

RT AFTERBURNING  
AIR CONDITIONING  
AIR POLLUTION  
BLOWERS  
CHIMNEYS  
CONDENSERS (LIQUEFIERS)  
COOLING SYSTEMS  
DUCTS  
DUST COLLECTORS  
EJECTORS  
ELIMINATION  
ENGINES  
EXHAUSTING  
FLUES  
FUEL TANK PRESSURIZATION  
INTAKE SYSTEMS  
INTERNAL COMBUSTION ENGINES  
MANIFOLDS  
MUFFLERS  
OPENINGS  
OUTLETS  
PIPE NOZZLES

**EXHAUST SYSTEMS-(CONT.)**

PLENUM CHAMBERS  
PORTS (OPENINGS)  
ROCKET EXHAUST  
∞ SYSTEMS  
TEMPERATURE CONTROL  
VENTILATION  
VENTILATORS  
VENTS  
WASTE DISPOSAL

**EXHAUST VELOCITY**

GS RATES (PER TIME)  
∞ EXHAUST VELOCITY  
VELOCITY  
RT ∞ EXHAUST VELOCITY  
ACOUSTIC VELOCITY  
CRITICAL VELOCITY  
EXPULSION  
FLOW VELOCITY

**EXHAUSTING**

RT BLOWING  
BREATHING VIBRATION  
CONSUMPTION  
DECONTAMINATION  
∞ DISCHARGE  
DISPERSING  
DISPOSAL  
DISSIPATION  
EJECTION  
ELIMINATION  
EVACUATING (VACUUM)  
EXHAUST GASES  
EXHAUST SYSTEMS  
RELIEVING  
REMOVAL  
VENTILATION  
VENTING

**EXOS SOUNDING ROCKET**

GS ROCKET VEHICLES  
∞ MULTISTAGE ROCKET VEHICLES  
∞ EXOS SOUNDING ROCKET  
∞ SOUNDING ROCKETS  
RT ∞ EXOS SOUNDING ROCKET  
HONEST JOHN ROCKET VEHICLE  
NIKE-AJAX MISSILE  
SOLID PROPELLANT ROCKET ENGINES  
XM-33 ENGINE

**EXOTHERMIC REACTIONS**

GS CHEMICAL REACTIONS  
∞ EXOTHERMIC REACTIONS  
RT ASSOCIATION REACTIONS  
COMBUSTION  
COMBUSTION CHEMISTRY  
ENDOTHERMIC REACTIONS  
INCENDIARY AMMUNITION  
PYROLYSIS  
THERMAL DECOMPOSITION

**EXPANSION WAVES**

USE ELASTIC WAVES

**EXPENDABLE STAGES (SPACECRAFT)**

RT BOOSTER RECOVERY  
BOOSTER ROCKET ENGINES  
ENGINES  
MULTISTAGE ROCKET VEHICLES  
RECOVERABLE SPACECRAFT  
REUSABLE SPACECRAFT  
ROCKET ENGINES  
SPACE SHUTTLES  
STAGE SEPARATION

**EXPERIMENTAL AIRCRAFT**

USE RESEARCH AIRCRAFT

**EXPERIMENTAL STOL TRANSPORT RSCH AIRPLANE**

USE QUESTOL AIRCRAFT

**EXPLOSIONS**

GS EXPLOSIONS  
∞ AERIAL EXPLOSIONS  
∞ CHEMICAL EXPLOSIONS  
∞ GAS EXPLOSIONS  
∞ NUCLEAR EXPLOSIONS  
∞ THERMONUCLEAR EXPLOSIONS  
∞ UNDERGROUND EXPLOSIONS  
∞ UNDERWATER EXPLOSIONS  
RT ACCIDENTS  
BACKFIRE

## EXPLOSIVE DECOMPRESSION

### EXPLOSIONS-(CONT.)

- BLAST LOADS
- ∞ BLASTS
- BURSTS
- COMBUSTION
- DETONATION
- ∞ DISCHARGE
- EXPLOSIVE DECOMPRESSION
- EXPLOSIVES
- FIRES
- FLAME PROPAGATION
- ∞ FLASH
- FLASHBACK
- HAZARDS
- HYDROCARBON COMBUSTION
- IMPLOSIONS
- REACTOR SAFETY
- RIEMANN WAVES
- SAFETY
- SHOCK WAVES
- SOUND PRESSURE
- SPONTANEOUS COMBUSTION
- WARNING SYSTEMS

### EXPLOSIVE DECOMPRESSION

- GS PRESSURE REDUCTION
- EXPLOSIVE DECOMPRESSION
- RT EXPLOSIONS
- IMPLOSIONS
- PRESSURE RECOVERY
- PRESSURIZED CABINS

### EXPLOSIVE GASES

- USE FLAMMABLE GASES

### EXPULSION BLADDERS

- GS DIAPHRAGMS (MECHANICS)
- EXPULSION BLADDERS
- RT BELLOWS
- EJECTION
- EMPTYING
- EXPANDABLE STRUCTURES
- FUEL TANK PRESSURIZATION
- FUEL TANKS
- PRESSURIZING
- PROPELLANT STORAGE
- PROPELLANT TANKS
- STORAGE TANKS

### EXTENSOMETERS

- UF DILATOMETERS
- GS MEASURING INSTRUMENTS
- EXTENSOMETERS
- RT DEFORMETERS
- DILATOMETRY
- ELASTOMETERS
- MECHANICAL MEASUREMENT
- STRAIN GAGES
- STRESS MEASUREMENT
- TENSOMETERS
- THERMAL EXPANSION
- TRANSDUCERS

### EXTERNAL COMBUSTION ENGINES

- GS ENGINES
- EXTERNAL COMBUSTION ENGINES
- STIRLING ENGINES
- RT AUTOMOBILE ENGINES
- BOILERS
- GAS TURBINE ENGINES
- INTERNAL COMBUSTION ENGINES
- PISTON ENGINES

### EXTERNAL STORE SEPARATION

- UF STORE RELEASE
- RT NACELLES
- PODS (EXTERNAL STORES)
- PROTUBERANCES
- ∞ SEPARATION
- ∞ STORAGE
- WING TANKS
- WING-FUSELAGE STORES

### EXTERNAL SURFACE CURRENTS

- GS ELECTRIC CURRENT
- EXTERNAL SURFACE CURRENTS
- RT ∞ CURRENTS
- ELECTRIC FIELDS
- ELECTROMAGNETIC FIELDS
- ELECTROMAGNETIC PULSES
- LEVITATION MELTING
- PHOTOELECTRIC EMISSION
- SPACECRAFT CHARGING
- ∞ SURFACES

### EXTERNAL SURFACE CURRENTS-(CONT.)

- SYSTEM GENERATED
- ELECTROMAGNETIC PULSES

### EXTERNAL TANKS

- GS TANKS (CONTAINERS)
- EXTERNAL TANKS
- RT FUEL TANKS
- NACELLES
- PROPELLANT TANKS
- SPACE SHUTTLE ASCENT STAGE
- STORAGE TANKS
- WING TANKS

### EXTERNALLY BLOWN FLAPS

- UF BLOWN FLAPS
- EBF
- GS AIRFOILS
- FLAPS (CONTROL SURFACES)
- EXTERNALLY BLOWN FLAPS
- UPPER SURFACE BLOWN FLAPS
- CONTROL SURFACES
- FLAPS (CONTROL SURFACES)
- EXTERNALLY BLOWN FLAPS
- UPPER SURFACE BLOWN FLAPS
- RT JET FLAPS
- LIFT
- LIFT DEVICES
- POWERED LIFT AIRCRAFT
- SHORT TAKEOFF AIRCRAFT
- SPANWISE BLOWING
- WING FLAPS
- WING NACELLE CONFIGURATIONS

### EXTINGUISHERS

- USE FIRE EXTINGUISHERS

### EXTINGUISHING

- UF FLAME QUENCHING
- GS EXTINGUISHING
- FLAMEOUT
- RT BURNOUT
- COMBUSTION
- EXTINCTION
- OCCULTATION
- ∞ QUENCHING
- QUENCHING (COOLING)

### EYRING THEORY

- GS KINETIC THEORY
- TRANSPORT THEORY
- EYRING THEORY
- RT EQUILIBRIUM FLOW
- FLUID DYNAMICS
- ∞ THEORIES

## F

### F-2 AIRCRAFT

- UF HAWKER HUNTER AIRCRAFT
- HUNTER F-2 AIRCRAFT
- GS ATTACK AIRCRAFT
- FIGHTER AIRCRAFT
- F-2 AIRCRAFT
- HAWKER SIDDELEY AIRCRAFT
- F-2 AIRCRAFT
- JET AIRCRAFT
- F-2 AIRCRAFT
- MONOPLANES
- F-2 AIRCRAFT
- RT ∞ AIRCRAFT

### F-4 AIRCRAFT

- UF F-110 AIRCRAFT
- F4H AIRCRAFT
- GS ATTACK AIRCRAFT
- FIGHTER AIRCRAFT
- F-4 AIRCRAFT
- JET AIRCRAFT
- PHANTOM AIRCRAFT
- F-4 AIRCRAFT
- MCDONNELL DOUGLAS AIRCRAFT
- MCDONNELL AIRCRAFT
- PHANTOM AIRCRAFT
- F-4 AIRCRAFT
- MONOPLANES
- PHANTOM AIRCRAFT
- F-4 AIRCRAFT
- SUPERSONIC AIRCRAFT
- PHANTOM AIRCRAFT
- F-4 AIRCRAFT
- RT ∞ AIRCRAFT

### F-4 AIRCRAFT-(CONT.)

- J-79 ENGINE
- RF-4 AIRCRAFT

### F-5 AIRCRAFT

- UF FREEDOM FIGHTER AIRCRAFT
- N-156 AIRCRAFT
- GS ATTACK AIRCRAFT
- FIGHTER AIRCRAFT
- F-5 AIRCRAFT
- COIN AIRCRAFT
- F-5 AIRCRAFT
- JET AIRCRAFT
- F-5 AIRCRAFT
- MONOPLANES
- F-5 AIRCRAFT
- NORTHROP AIRCRAFT
- F-5 AIRCRAFT
- OBSERVATION AIRCRAFT
- F-5 AIRCRAFT
- RECONNAISSANCE AIRCRAFT
- F-5 AIRCRAFT
- SUPERSONIC AIRCRAFT
- F-5 AIRCRAFT
- RT ∞ AIRCRAFT

### F-8 AIRCRAFT

- UF CRUSADER AIRCRAFT
- F8U AIRCRAFT
- RF-8 AIRCRAFT
- GS ATTACK AIRCRAFT
- FIGHTER AIRCRAFT
- F-8 AIRCRAFT
- JET AIRCRAFT
- F-8 AIRCRAFT
- LING-TEMCO-VOUGHT AIRCRAFT
- F-8 AIRCRAFT
- MONOPLANES
- F-8 AIRCRAFT
- SINGLE ENGINE AIRCRAFT
- F-8 AIRCRAFT
- SUPERSONIC AIRCRAFT
- F-8 AIRCRAFT
- RT ∞ AIRCRAFT

### F-9 AIRCRAFT

- UF COUGAR AIRCRAFT
- F9F AIRCRAFT
- PANTHER AIRCRAFT
- GS ATTACK AIRCRAFT
- FIGHTER AIRCRAFT
- F-9 AIRCRAFT
- GRUMMAN AIRCRAFT
- F-9 AIRCRAFT
- JET AIRCRAFT
- F-9 AIRCRAFT
- MONOPLANES
- F-9 AIRCRAFT
- SINGLE ENGINE AIRCRAFT
- F-9 AIRCRAFT
- RT ∞ AIRCRAFT

### F-94 AIRCRAFT

- GS ATTACK AIRCRAFT
- FIGHTER AIRCRAFT
- F-94 AIRCRAFT
- JET AIRCRAFT
- F-94 AIRCRAFT
- LOCKHEED AIRCRAFT
- F-94 AIRCRAFT
- MONOPLANES
- F-94 AIRCRAFT
- SINGLE ENGINE AIRCRAFT
- F-94 AIRCRAFT
- RT ∞ AIRCRAFT

### FABRY-PEROT INTERFEROMETERS

- GS MEASURING INSTRUMENTS
- INTERFEROMETERS
- FABRY-PEROT INTERFEROMETERS
- RT ETALONS
- MICROWAVE INTERFEROMETERS
- PLASMA DIAGNOSTICS

### FABRY-PEROT SPECTROMETERS

- GS MEASURING INSTRUMENTS
- RADIATION MEASURING INSTRUMENTS
- FABRY-PEROT SPECTROMETERS
- SPECTROMETERS
- FABRY-PEROT SPECTROMETERS
- RT ACTINOMETERS
- AIRGLOW
- AURORAL SPECTROSCOPY
- OPTICAL EQUIPMENT
- OPTICAL MEASURING INSTRUMENTS



**FACETS**

USE FLAT SURFACES

**∞ FACILITIES**SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*

RT AIRPORTS  
ELECTRIC POWER PLANTS  
GROUND HANDLING  
INDUSTRIAL AREAS  
INDUSTRIAL PLANTS  
LAND USE  
LAUNCHING BASES  
LOGISTICS  
LOGISTICS MANAGEMENT  
MILITARY AIR FACILITIES  
MOBILE QUARANTINE FACILITY  
RESEARCH FACILITIES  
ROADS  
SITE SELECTION  
SITES  
SOLAR CELL CALIBRATION FACILITY  
STATIONS  
TERMINAL FACILITIES  
TEST FACILITIES  
X RAY ASTROPHYSICS FACILITY

**FAIRCHILD MILITARY AIRCRAFT**USE FAIRCHILD-HILLER AIRCRAFT  
MILITARY AIRCRAFT**FAIRCHILD-HILLER AIRCRAFT**

UF FAIRCHILD MILITARY AIRCRAFT  
GS **FAIRCHILD-HILLER AIRCRAFT**  
C-119 AIRCRAFT  
C-123 AIRCRAFT  
OH-5 HELICOPTER  
OH-23 HELICOPTER  
XC-142 AIRCRAFT  
RT ∞ AIRCRAFT

**FAIREY AIRCRAFT**

GS **FAIREY AIRCRAFT**  
FD 2 AIRCRAFT  
RT ∞ AIRCRAFT

**FAIREY DELTA 2 AIRCRAFT**

USE FD 2 AIRCRAFT

**FAIRINGS**

GS SYMMETRICAL BODIES  
STREAMLINED BODIES  
FAIRINGS  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT STRUCTURES  
CANOPIES  
COWLINGS  
FILLET  
HOUSINGS  
LANDING GEAR  
NACELLES  
OGIVES  
PERFORATED SHELLS  
PROTECTORS  
PROTUBERANCES  
SHEATHS  
SHELLS (STRUCTURAL FORMS)  
∞ SPINNERS  
STREAMLINING  
WING ROOTS

**FALCON MISSILE**

GS MISSILES  
AIR TO AIR MISSILES  
FALCON MISSILE  
ANTI-AIRCRAFT MISSILES  
FALCON MISSILE  
RT M-46 ENGINE  
SOLID PROPELLANT ROCKET ENGINES

**FALKNER-SKAN EQUATION**

GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
DIFFERENTIAL EQUATIONS  
FALKNER-SKAN EQUATION  
RT BLASIUS EQUATION  
BOUNDARY LAYER SEPARATION  
∞ EQUATIONS  
LAMINAR FLOW  
PRANDTL-MEYER EXPANSION  
WEDGE FLOW

**FALLING SPHERES**

GS SYMMETRICAL BODIES  
BODIES OF REVOLUTION  
SPHERES  
FALLING SPHERES  
RT BALLS  
DROP TOWERS  
FREE FALL  
GLOBULES  
RAINDROPS  
SPHEROIDS

**FAN IN WING AIRCRAFT**

GS **FAN IN WING AIRCRAFT**  
XV-5 AIRCRAFT  
RT ∞ AIRCRAFT  
LIFT FANS  
RESEARCH AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
TILT WING AIRCRAFT  
V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT

**FANLIFT DEVICES**

USE LIFT FANS

**∞ FANS**SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*

RT ACTUATOR DISKS  
AIR CONDITIONING EQUIPMENT  
AIR DUCTS  
ANTENNA RADIATION PATTERNS  
BLOWERS  
COMPRESSOR ROTORS  
COMPRESSORS  
DUCTED FANS  
FAN BLADES  
PROPELLER FANS  
TURBOFANS  
VENTILATION FANS  
WIND TUNNEL DRIVES

**FBM (MISSILES)**

USE FLEET BALLISTIC MISSILES

**FD 2 AIRCRAFT**

UF FAIREY DELTA 2 AIRCRAFT  
GS **FAIREY AIRCRAFT**  
FD 2 AIRCRAFT  
JET AIRCRAFT  
FD 2 AIRCRAFT  
MONOPLANES  
FD 2 AIRCRAFT  
RESEARCH AIRCRAFT  
FD 2 AIRCRAFT  
TAILLESS AIRCRAFT  
FD 2 AIRCRAFT  
RT ∞ AIRCRAFT  
DELTA WINGS

**FDL-5 REENTRY VEHICLE**

GS LIFTING BODIES  
LIFTING REENTRY VEHICLES  
FDL-5 REENTRY VEHICLE  
REENTRY VEHICLES  
MANEUVERABLE REENTRY BODIES  
LIFTING REENTRY VEHICLES  
FDL-5 REENTRY VEHICLE

**FEATHERING**RT PROPELLER BLADES  
PROPELLERS**FEED SYSTEMS**

RT COLD FLOW TESTS  
FEEDING (SUPPLYING)  
FUEL TANKS  
INTAKE SYSTEMS  
PUMPS  
∞ SYSTEMS

**FEEDBACK**

GS **FEEDBACK**  
BIOFEEDBACK  
SENSORY FEEDBACK  
NEGATIVE FEEDBACK  
NONLINEAR FEEDBACK  
POSITIVE FEEDBACK  
RT COMPENSATORS  
COMPLEXITY  
CONTROL THEORY  
CYBERNETICS

**FEEDBACK-(CONT.)**

ELECTROMAGNETIC INTERFERENCE  
EMOTIONAL FACTORS  
OSCILLATIONS  
OSCILLATORS  
∞ SYSTEMS  
TRANSFER FUNCTIONS

**FEEDBACK CONTROL**

UF CLOSED LOOP SYSTEMS  
GS AUTOMATIC CONTROL  
FEEDBACK CONTROL  
CASCADE CONTROL  
RT ADAPTIVE CONTROL  
ADAPTIVE OPTICS  
AUTOMATIC FREQUENCY CONTROL  
AUTOMATIC GAIN CONTROL  
∞ AUTOMATION  
BIOFEEDBACK  
∞ CONTROL  
CONTROL EQUIPMENT  
CONTROL SYSTEMS DESIGN  
CONTROL THEORY  
DISTRIBUTED FEEDBACK LASERS  
DYNAMIC CONTROL  
ELECTRONIC CONTROL  
KALMAN-SCHMIDT FILTERING  
LINEAR QUADRATIC GAUSSIAN  
CONTROL  
LINEAR QUADRATIC REGULATOR  
MACHINE LEARNING  
MODEL REFERENCE ADAPTIVE  
CONTROL  
NEGATIVE FEEDBACK  
NONLINEAR FEEDBACK  
OBSERVABILITY (SYSTEMS)  
OPTIMAL CONTROL  
PROPORTIONAL CONTROL  
ROBUSTNESS (MATHEMATICS)  
SAMPLED DATA SYSTEMS  
SERVOCONTROL  
SERVOMECHANISMS  
SISO (CONTROL SYSTEMS)  
STABILITY AUGMENTATION  
TERMINAL CONFIGURED VEHICLE  
PROGRAM  
TRACKING PROBLEM

**FEEDING (SUPPLYING)**

RT FEED SYSTEMS  
FEEDERS  
INJECTION  
INPUT  
∞ LOADING  
MATERIALS HANDLING

**FELLOWSHIP AIRCRAFT**

USE F-28 TRANSPORT AIRCRAFT

**∞ FENCES**

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT AIRFOIL FENCES  
FENCES (BARRIERS)  
TRACKING STATIONS

**FERMI LIQUIDS**

GS LIQUIDS  
CRYOGENIC FLUIDS  
FERMI LIQUIDS  
RT CRYOGENICS

**FERROFLUIDS**

GS LIQUIDS  
FERROFLUIDS  
MAGNETIC MATERIALS  
FERROMAGNETIC MATERIALS  
FERROFLUIDS  
RT DISPERSIONS  
∞ FLUIDS  
MICROPARTICLES  
SUSPENDING (MIXING)  
∞ SUSPENSIONS  
WORKING FLUIDS

**FFAR ROCKET VEHICLE**USE FOLDING FIN AIRCRAFT ROCKET  
VEHICLE**FH-1100 HELICOPTER**

USE OH-5 HELICOPTER

## FIAT AIRCRAFT

### FIAT AIRCRAFT

GS FIAT AIRCRAFT  
 . G-91 AIRCRAFT  
 . G-95/4 AIRCRAFT  
 . G-222 AIRCRAFT  
 RT ∞ AIRCRAFT

### FIAT G-91 AIRCRAFT

USE G-91 AIRCRAFT

### FIAT G-95/4 AIRCRAFT

USE G-95/4 AIRCRAFT

### FICKS EQUATION

RT DIFFUSION  
 DIFFUSION COEFFICIENT  
 ∞ EQUATIONS  
 TAFEL LAW

### FIELD ARMY BALLISTIC MISSILES

GS MISSILES  
 . BALLISTIC MISSILES  
 . FIELD ARMY BALLISTIC MISSILES  
 . SUBROC MISSILE  
 RT INTERMEDIATE RANGE BALLISTIC MISSILES  
 SHORT RANGE BALLISTIC MISSILES

### ∞ FIELDS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
 RT BOSON FIELDS  
 ELECTRIC FIELDS  
 FIELD OF VIEW  
 FIELD THEORY (ALGEBRA)  
 FIELD THEORY (PHYSICS)  
 GRAVITATIONAL FIELDS  
 MAGNETIC FIELDS  
 MILITARY AIR FACILITIES  
 SELF CONSISTENT FIELDS  
 VISUAL FIELDS

### FIGHTER AIRCRAFT

UF INTERCEPTOR AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . FIGHTER AIRCRAFT  
 . . ALPHA JET AIRCRAFT  
 . . F-2 AIRCRAFT  
 . . F-4 AIRCRAFT  
 . . F-5 AIRCRAFT  
 . . F-8 AIRCRAFT  
 . . F-9 AIRCRAFT  
 . . F-14 AIRCRAFT  
 . . F-15 AIRCRAFT  
 . . F-16 AIRCRAFT  
 . . F-17 AIRCRAFT  
 . . F-18 AIRCRAFT  
 . . F-20 AIRCRAFT  
 . . F-27 AIRCRAFT  
 . . F-84 AIRCRAFT  
 . . F-86 AIRCRAFT  
 . . F-89 AIRCRAFT  
 . . F-94 AIRCRAFT  
 . . F-100 AIRCRAFT  
 . . F-101 AIRCRAFT  
 . . F-102 AIRCRAFT  
 . . F-104 AIRCRAFT  
 . . F-105 AIRCRAFT  
 . . F-106 AIRCRAFT  
 . . F-111 AIRCRAFT  
 . . FV-12A AIRCRAFT  
 . . G-91 AIRCRAFT  
 . . G-95/4 AIRCRAFT  
 . . GA-5 AIRCRAFT  
 . . HARRIER AIRCRAFT  
 . . JAGUAR AIRCRAFT  
 . . JET PROVOST AIRCRAFT  
 . . MIG AIRCRAFT  
 . . MIRAGE AIRCRAFT  
 . . MIRAGE 3 AIRCRAFT  
 . . P-51 AIRCRAFT  
 . . P-1127 AIRCRAFT  
 . . P-1154 AIRCRAFT  
 . . SAAB 37 AIRCRAFT  
 . . SCIMITAR AIRCRAFT  
 . . VAMPIRE MK 35 AIRCRAFT  
 . . VJ-101 AIRCRAFT  
 . . YF-12 AIRCRAFT  
 . . YF-16 AIRCRAFT  
 RT ∞ AIRCRAFT  
 HIGHLY MANEUVERABLE AIRCRAFT  
 ∞ INTERCEPTORS  
 JET AIRCRAFT  
 ∞ MILITARY AIRCRAFT

### FIGHTER AIRCRAFT-(CONT.)

∞ MILITARY AVIATION  
 MRCA AIRCRAFT  
 PANAVIA MILITARY AIRCRAFT  
 SINGLE ENGINE AIRCRAFT  
 SUPERSONIC AIRCRAFT  
 TRAINING AIRCRAFT  
 V/STOL AIRCRAFT

### FIGURE OF MERIT

RT ACCEPTABILITY  
 ∞ ANALYZING  
 CRITERIA  
 EFFICIENCY  
 EVALUATION  
 MODULATION TRANSFER FUNCTION  
 OPTICAL TRANSFER FUNCTION  
 ∞ PERFORMANCE  
 Q FACTORS  
 QUALITY  
 SELECTION  
 VALUE

### FILLETS

RT FAIRINGS  
 JOINTS (JUNCTIONS)  
 SEAMS (JOINTS)  
 WELDING

### FILM COOLING

GS COOLING  
 . EVAPORATIVE COOLING  
 . . FILM COOLING  
 . . LIQUID COOLING  
 RT . . FILM COOLING  
 LIQUID INJECTION  
 SURFACE COOLING  
 SWEAT COOLING

### FINENESS

RT COARSENESS  
 FINENESS RATIO  
 PARTICLE SIZE DISTRIBUTION  
 PURITY  
 QUALITY  
 SIZE (DIMENSIONS)  
 TEXTURES

### FINENESS RATIO

GS RATIOS  
 . FINENESS RATIO  
 RT ASPECT RATIO  
 DIMENSIONS  
 FINENESS  
 OBLATE SPHEROIDS  
 SLENDER BODIES  
 THICKNESS RATIO

### FINITE DIFFERENCE THEORY

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . APPROXIMATION  
 . . . FINITE DIFFERENCE THEORY  
 RT CRANK-NICHOLSON METHOD  
 DIFFERENCE EQUATIONS  
 DIFFERENCES  
 ESSENTIALLY NON-OSCILLATORY SCHEMES  
 EXTRAPOLATION  
 FLUX VECTOR SPLITTING  
 GRID GENERATION (MATHEMATICS)  
 INTERPOLATION  
 MULTIGRID METHODS  
 SIGNIFICANCE  
 ∞ THEORIES  
 TIME MARCHING  
 TVD SCHEMES

### FINITE ELEMENT METHOD

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . APPROXIMATION  
 . . . FINITE ELEMENT METHOD  
 PROCEDURES  
 . FINITE ELEMENT METHOD  
 RT ∞ APPLICATIONS OF MATHEMATICS  
 BOUNDARY VALUE PROBLEMS  
 CHOLESKY FACTORIZATION  
 COMPUTATIONAL FLUID DYNAMICS  
 CONJUGATES  
 CRANK-NICHOLSON METHOD  
 FACTORIZATION  
 FRACTURE MECHANICS  
 GRID GENERATION (MATHEMATICS)  
 ISOPARAMETRIC FINITE ELEMENTS

### FINITE ELEMENT METHOD-(CONT.)

ITERATIVE SOLUTION  
 MATRICES (MATHEMATICS)  
 ∞ METHODOLOGY  
 MINIMAL SURFACES  
 MULTIGRID METHODS  
 NASTRAN  
 PANEL METHOD (FLUID DYNAMICS)  
 PATCH TESTS  
 SOLID MECHANICS

### FINITE VOLUME METHOD

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . FINITE VOLUME METHOD  
 PROCEDURES  
 . FINITE VOLUME METHOD  
 RT BOUNDARY VALUE PROBLEMS  
 ∞ METHODOLOGY  
 TVD SCHEMES

### FINNED BODIES

RT AERODYNAMIC CONFIGURATIONS  
 ∞ BODIES  
 BODIES OF REVOLUTION  
 COOLING FINS  
 FINS  
 HEAT EXCHANGERS  
 MISSILE BODIES  
 NOSE FINS  
 PROJECTILES  
 SYMMETRICAL BODIES

### FINS

UF VERTICAL FINS  
 GS FINS  
 . COOLING FINS  
 . NOSE FINS  
 RT AERIAL RUDDERS  
 AIRFOILS  
 AIRFRAMES  
 ∞ BLADES  
 CONTROL SURFACES  
 FINNED BODIES  
 HYDROFOILS  
 MISSILE COMPONENTS  
 RUDDERS  
 SAILS  
 STABILIZERS (FLUID DYNAMICS)  
 TAIL ASSEMBLIES  
 VANES  
 WINGLETS

### FIRE CONTROL

SN (LIMITED TO CONTROL OF THE FIRING OF WEAPONS—EXCLUDES FIRE PREVENTION AND FIRE FIGHTING)  
 RT BOMBING EQUIPMENT  
 ∞ CONTROL  
 FIRING (IGNITING)  
 GUNFIRE  
 GUNNERY TRAINING  
 RANGE FINDERS  
 WEAPON SYSTEMS  
 WEAPONS

### FIRE DAMAGE

GS DAMAGE  
 . FIRE DAMAGE  
 RT ASHES  
 CHARRING  
 COMBUSTION  
 FIRES  
 FLAMES  
 FUMES  
 SMOKE  
 SOOT

### FIRE EXTINGUISHERS

UF CHEMICAL EXTINGUISHERS  
 EXTINGUISHERS  
 RT FIRE FIGHTING  
 FIRE PREVENTION  
 FIREBREAKS  
 FIRES  
 FLAMMABILITY  
 FOAMS

### FIRE FIGHTING

SN (EXCLUDES FIRE CONTROL—CONTROL OF THE FIRING OF WEAPONS)  
 RT BREATHING APPARATUS  
 FIRE EXTINGUISHERS  
 FIRE PREVENTION  
 FIREBREAKS

**FIRE FIGHTING-(CONT.)**

FIRES  
FLAMMABILITY  
FOAMS

**FIRE POINT**

RT FLAMMABILITY  
FLASH POINT  
SPONTANEOUS COMBUSTION

**FIRE PREVENTION**

SN (EXCLUDES FIRE CONTROL--CONTROL  
OF THE FIRING OF WEAPONS)  
GS PREVENTION  
. FIRE PREVENTION  
RT ACCIDENT PREVENTION  
EXPLOSION SUPPRESSION  
FIRE EXTINGUISHERS  
FIRE FIGHTING  
FIREBREAKS  
FIREPROOFING  
FIRES  
FLAME RETARDANTS  
FOREST FIRES  
HIGH PRESSURE OXYGEN  
SAFETY  
SAFETY DEVICES  
SAFETY MANAGEMENT  
SMOKE DETECTORS  
SPONTANEOUS COMBUSTION  
WARNING  
WARNING SYSTEMS

**FIRE RESISTANCE**

USE FLAMMABILITY

**FIRE RETARDANTS**

USE FLAME RETARDANTS

**FIREBEE 2 TARGET DRONE AIRCRAFT**

GS DRONE VEHICLES  
. DRONE AIRCRAFT  
. TARGET DRONE AIRCRAFT  
. FIREBEE 2 TARGET DRONE  
AIRCRAFT  
LIGHT AIRCRAFT  
. FIREBEE 2 TARGET DRONE AIRCRAFT  
PILOTLESS AIRCRAFT  
. DRONE AIRCRAFT  
. TARGET DRONE AIRCRAFT  
. FIREBEE 2 TARGET DRONE  
AIRCRAFT  
RESEARCH AIRCRAFT  
. FIREBEE 2 TARGET DRONE AIRCRAFT  
RYAN AIRCRAFT  
. FIREBEE 2 TARGET DRONE AIRCRAFT  
SUPERSONIC AIRCRAFT  
. FIREBEE 2 TARGET DRONE AIRCRAFT  
RT ∞ AIRCRAFT  
∞ MILITARY AIRCRAFT  
TARGETS  
∞ WINGED VEHICLES

**FIREBREAKS**

RT CLEARINGS (OPENINGS)  
COMBUSTION  
CONSERVATION  
FIRE EXTINGUISHERS  
FIRE FIGHTING  
FIRE PREVENTION  
FIRES  
FLAMES  
FOREST FIRES  
FORESTS

**FIREPROOFING**

RT FIRE PREVENTION  
NONFLAMMABLE MATERIALS  
SAFETY

**FIRES**

GS FIRES  
. FOREST FIRES  
RT ACCIDENTS  
BACKFIRE  
BURNS (INJURIES)  
COMBUSTION  
CONTROL SURFACES  
DEFLAGRATION  
EXPLOSIONS  
EXPLOSIVES  
FIBER RELEASE  
FIRE DAMAGE  
FIRE EXTINGUISHERS  
FIRE FIGHTING

**FIRES-(CONT.)**

FIRE PREVENTION  
FIREBREAKS  
FIRING (IGNITING)  
FLAMES  
FLASHBACK  
HAZARDS  
SAFETY  
SAINT ELMO FIRE  
WARNING SYSTEMS

**FIRING (IGNITING)**

GS FIRING (IGNITING)  
. ROCKET FIRING  
. RETROFIRING  
. TEST FIRING  
. STATIC FIRING  
RT BURNING TIME  
DETONABLE GAS MIXTURES  
DETONATION  
DRYING  
FIRE CONTROL  
FIRES  
FLAMMABLE GASES  
GUNFIRE  
IGNITION  
STARTING

**FIRING TIME**

USE BURNING TIME

**FISHTAILING**

USE YAW

**FIXED WINGS**

UF FIXED-WING AIRCRAFT  
GS AIRFOILS  
. WINGS  
. FIXED WINGS  
RT CAMBERED WINGS  
CRUCIFORM WINGS  
FLEXIBLE WINGS  
LOW ASPECT RATIO WINGS  
RIGID WINGS  
SLENDER WINGS  
SWEEP WINGS  
THIN WINGS  
TWISTED WINGS  
UNCAMBERED WINGS  
UNSWEEP WINGS

**FIXED-WING AIRCRAFT**

USE AIRCRAFT CONFIGURATIONS  
FIXED WINGS

**FLAME CALORIMETERS**

GS MEASURING INSTRUMENTS  
. CALORIMETERS  
. FLAME CALORIMETERS  
RT BOMB CALORIMETERS  
DROP CALORIMETERS  
HEAT MEASUREMENT  
HIGH TEMPERATURE TESTS  
TEMPERATURE MEASURING  
INSTRUMENTS

**FLAME DEFLECTORS**

GS DEFLECTORS  
. FLAME DEFLECTORS  
RT BACKFIRE  
BAFFLES  
BLAST DEFLECTORS  
DIVERTERS  
FLASHBACK  
LAUNCHING PADS  
SAFETY DEVICES  
SHIELDING  
TEST STANDS

**FLAME FRONTS**

USE FLAME PROPAGATION

**FLAME HOLDERS**

GS HOLDERS  
. FLAME HOLDERS  
RT COMBUSTION CHAMBERS  
DUMP COMBUSTORS  
FLAMEOUT  
FLAMES

**FLAME INTERACTION**

USE CHEMICAL REACTIONS  
FLAME PROPAGATION

**FLAME IONIZATION**

GS IONIZATION  
. GAS IONIZATION  
. FLAME IONIZATION

**FLAME PROBES**

GS MEASURING INSTRUMENTS  
. FLAME PROBES  
RT GAS ANALYSIS  
MANOMETERS  
TEMPERATURE MEASURING  
INSTRUMENTS

**FLAME PROPAGATION**

UF CHAPMAN-JOUGET FLAME  
COMBUSTION WAVES  
FLAME FRONTS  
FLAME INTERACTION  
GS PROPAGATION (EXTENSION)  
. FLAME PROPAGATION  
RT BACKFIRE  
BOUNDARY LAYER COMBUSTION  
BURNING RATE  
COMBUSTIBLE FLOW  
COMBUSTION  
COMBUSTION PHYSICS  
DAMKOHLE NUMBER  
DETONATION  
DETONATION WAVES  
EXPLOSIONS  
FLAMES  
FLAMMABILITY  
FLASHBACK  
GAS EXPLOSIONS  
GAS-METAL INTERACTIONS  
IGNITION  
PREMIXED FLAMES  
PRESSURE OSCILLATIONS  
PRESSURE PULSES  
∞ PROPAGATION

**FLAME QUENCHING**

USE EXTINGUISHING  
QUENCHING (COOLING)

**FLAME RETARDANTS**

UF FIRE RETARDANTS  
GS RETARDANTS  
. FLAME RETARDANTS  
RT ANTIMISTING FUELS  
FABRICS  
FIRE PREVENTION  
FLAMMABILITY  
IGNITION LIMITS  
INORGANIC COMPOUNDS  
POLYBROMINATED BIPHENYLS  
SYNTHETIC FIBERS

**FLAME SPRAYING**

GS SPRAYING  
. FLAME SPRAYING  
RT COATING  
COATINGS  
METAL SPRAYING  
METALLIZING  
PLASMA SPRAYING

**FLAME STABILITY**

GS DYNAMIC CHARACTERISTICS  
. DYNAMIC STABILITY  
. COMBUSTION STABILITY  
. FLAME STABILITY  
. MOTION STABILITY  
. FLOW STABILITY  
. FLAME STABILITY  
. FLOW CHARACTERISTICS  
. FLOW STABILITY  
. FLAME STABILITY  
STABILITY  
. DYNAMIC STABILITY  
. COMBUSTION STABILITY  
. FLAME STABILITY  
. MOTION STABILITY  
. FLOW STABILITY  
. FLAME STABILITY  
RT FLAMEOUT

**FLAME TEMPERATURE**

GS TEMPERATURE  
. FLAME TEMPERATURE  
RT COMBUSTION CHEMISTRY  
COMBUSTION TEMPERATURE

**FLAMEOUT**

UF BLOWOFF (COMBUSTION)

## FLAMES

### FLAMEOUT-(CONT.)

- GS EXTINGUISHING
- . FLAMEOUT
- RT COMBUSTION
- COMBUSTION CHAMBERS
- FLAME HOLDERS
- FLAME STABILITY
- GAS TURBINE ENGINES
- JET ENGINES

### FLAMES

- UF JET FLAMES
- LAMINAR FLAMES
- GS FLAMES
- . DIFFUSION FLAMES
- . PREMIXED FLAMES
- RT COMBUSTION
- FIRE DAMAGE
- FIREBREAKS
- FIRES
- FLAME HOLDERS
- FLAME PROPAGATION
- ∞ FLARES
- FOREST FIRES
- FUELS
- SMOG

### FLAMMABILITY

- UF COMBUSTIBILITY
- FIRE RESISTANCE
- RT BURNING RATE
- COMBUSTION
- DETONABLE GAS MIXTURES
- FIRE EXTINGUISHERS
- FIRE FIGHTING
- FIRE POINT
- FLAME PROPAGATION
- FLAME RETARDANTS
- FLAMMABLE GASES
- FLASH POINT
- IGNITION
- IGNITION LIMITS
- IGNITION TEMPERATURE
- PYROPHORIC MATERIALS
- ∞ RESISTANCE
- SPONTANEOUS COMBUSTION

### FLAMMABLE GASES

- UF EXPLOSIVE GASES
- GS GASES
- . FLAMMABLE GASES
- . GASEOUS FUELS
- . LIQUEFIED NATURAL GAS
- . PYROGEN
- RT CHEMICAL EXPLOSIONS
- DETONABLE GAS MIXTURES
- EXPLOSIVES
- FIRING (IGNITING)
- FLAMMABILITY
- GAS EXPLOSIONS
- HAZARDS

### FLAP CONTROL

- USE AIRCRAFT CONTROL
- FLAPS (CONTROL SURFACES)

### FLAPERONS

- GS AIRFOILS
- . AILERONS
- . FLAPERONS
- . FLAPS (CONTROL SURFACES)
- . FLAPERONS
- CONTROL SURFACES
- . AILERONS
- . FLAPERONS
- . FLAPS (CONTROL SURFACES)
- . FLAPERONS
- RT AERODYNAMIC BRAKES

### FLAPPING

- RT AIRFOIL OSCILLATIONS
- FLUTTER
- RESONANT VIBRATION
- ROTOR AERODYNAMICS
- SHAKING
- UNDAMPED OSCILLATIONS
- VIBRATION
- WING OSCILLATIONS

### FLAPS (CONTROL SURFACES)

- UF FLAP CONTROL
- GS AIRFOILS
- . FLAPS (CONTROL SURFACES)
- . . . EXTERNALLY BLOWN FLAPS
- . . . UPPER SURFACE BLOWN FLAPS

### FLAPS (CONTROL SURFACES)-(CONT.)

- . . . FLAPERONS
- . . . JET FLAPS
- . . . SPLIT FLAPS
- . . . WING FLAPS
- . . . LEADING EDGE FLAPS
- . . . LEADING EDGE SLATS
- . . . TRAILING EDGE FLAPS
- . . . VORTEX FLAPS
- CONTROL SURFACES
- . FLAPS (CONTROL SURFACES)
- . . . EXTERNALLY BLOWN FLAPS
- . . . UPPER SURFACE BLOWN FLAPS
- . . . FLAPERONS
- . . . JET FLAPS
- . . . SPLIT FLAPS
- . . . WING FLAPS
- . . . LEADING EDGE FLAPS
- . . . LEADING EDGE SLATS
- . . . TRAILING EDGE FLAPS
- . . . VORTEX FLAPS
- RT AERODYNAMIC BRAKES
- BRAKES (FOR ARRESTING MOTION)
- ∞ CONTROL
- DELAYED FLAP APPROACH
- DRAG DEVICES
- GAW-2 AIRFOIL
- LIFT DEVICES
- SPOILERS
- ∞ SURFACES

### FLARED BODIES

- RT AFTERBODIES
- AIRCRAFT CONFIGURATIONS
- ∞ FLARES
- SPACECRAFT CONFIGURATIONS
- SYMMETRICAL BODIES

### ∞ FLARES

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*
- RT FLAMES
- FLARED BODIES
- ILLUMINATING
- LIGHTING EQUIPMENT
- LUMINAIRES
- PYROTECHNICS
- RUNWAY LIGHTS
- SOLAR FLARES
- SOLAR MAXIMUM MISSION
- SOLAR TERRESTRIAL INTERACTIONS
- STELLAR ACTIVITY
- STELLAR FLARES

### FLASH LAMPS

- UF FLASH TUBES
- GS LIGHTING EQUIPMENT
- . LUMINAIRES
- . . . FLASH LAMPS
- . . . ALKALI VAPOR LAMPS
- RT LIGHT SOURCES
- XENON LAMPS

### FLASH POINT

- GS TEMPERATURE
- . IGNITION TEMPERATURE
- . . . FLASH POINT
- RT COMBUSTION TEMPERATURE
- FIRE POINT
- FLAMMABILITY
- IGNITION
- SPONTANEOUS COMBUSTION
- VAPOR PRESSURE
- VOLATILITY

### FLASH TUBES

- USE FLASH LAMPS

### FLASHBACK

- RT BACKFIRE
- COMBUSTION
- DEFLAGRATION
- EXPLOSIONS
- FIRES
- FLAME DEFLECTORS
- FLAME PROPAGATION

### FLASHOVER

- GS ELECTRIC CURRENT
- . ELECTRIC DISCHARGES
- . . . FLASHOVER
- RT ELECTRIC ARCS
- ELECTRIC SPARKS
- ELECTRICAL FAULTS

### FLASHOVER-(CONT.)

- FAILURE

### FLAT LAYERS

- RT FLATNESS
- ∞ LAYERS
- PLANAR STRUCTURES
- STRATA
- STRATIFICATION

### FLAT PLATES

- GS STRUCTURAL MEMBERS
- . FLAT PLATES
- RT ANNULAR PLATES
- BLASIUS EQUATION
- BLASIUS FLOW
- CIRCULAR PLATES
- DYNAMIC STRUCTURAL ANALYSIS
- END PLATES
- FLATNESS
- FLUID MECHANICS
- HEAT TRANSFER
- METAL PLATES
- PANELS
- PARALLEL PLATES
- PLANAR STRUCTURES
- PLATE THEORY
- ∞ PLATES
- PLATES (STRUCTURAL MEMBERS)
- RECTANGULAR PLATES
- ∞ SHEETS
- SLABS
- THICK PLATES
- THIN PLATES

### FLAT SURFACES

- UF FACETS
- RT COSSERAT SURFACES
- FLATNESS
- PLANAR STRUCTURES
- ∞ SURFACE GEOMETRY
- SURFACE PROPERTIES
- ∞ SURFACES

### FLAW DETECTION

- USE NONDESTRUCTIVE TESTS

### FLEET BALLISTIC MISSILES

- UF FBM (MISSILES)
- GS MISSILES
- . SURFACE TO SURFACE MISSILES
- . . . FLEET BALLISTIC MISSILES
- . . . . POLARIS A1 MISSILE
- . . . . POLARIS A2 MISSILE
- . . . . POLARIS A3 MISSILE
- . . . . POSEIDON MISSILES
- . . . . SUBROC MISSILE
- RT BALLISTIC MISSILE SUBMARINES
- GUIDED MISSILE SUBMARINES
- INTERCONTINENTAL BALLISTIC MISSILES
- INTERMEDIATE RANGE BALLISTIC MISSILES
- SEA LAUNCHING

### FLEET SATELLITE COMMUNICATION SYSTEM

- UF FLEETSATCOM
- FLTSATCOM
- GS TELECOMMUNICATION
- . DEFENSE COMMUNICATIONS
- . . . SATELLITE SYSTEM
- . . . FLEET SATELLITE COMMUNICATION SYSTEM
- RT COMMUNICATION SATELLITES
- MARISAT SATELLITES
- MICROWAVE TRANSMISSION
- MILITARY TECHNOLOGY
- NASCOM NETWORK
- NAVY
- RADIO COMMUNICATION
- ∞ SYSTEMS
- ULTRAHIGH FREQUENCIES

### FLEETSATCOM

- USE FLEET SATELLITE COMMUNICATION SYSTEM

### FLEXIBLE BODIES

- GS FLEXIBLE BODIES
- . FLEXIBLE SPACECRAFT
- RT ∞ BODIES
- HYBRID STRUCTURES
- INFLATABLE STRUCTURES

**FLEXIBLE WINGS**

UF ROGALLO WINGS  
GS AIRFOILS  
. WINGS  
. . FLEXIBLE WINGS  
. . . PARAWINGS  
RT FIXED WINGS  
GLIDERS  
HANG GLIDERS  
INFINITE SPAN WINGS  
INFLATABLE STRUCTURES  
RIGID WINGS  
THIN WINGS  
TWISTED WINGS  
XV-8A AIRCRAFT

**∞ FLIGHT**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)*  
UF FLYING  
HIGH ALTITUDE FLIGHT  
HIGH SPEED FLIGHT  
RT AERODYNAMICS  
∞ AERONAUTICS  
BALLOON FLIGHT  
CLIMBING FLIGHT  
COASTING FLIGHT  
CRUISING FLIGHT  
FLIGHT ALTITUDE  
FLIGHT CONTROL  
FLIGHT MECHANICS  
FLIGHT OPTIMIZATION  
FLIGHT PATHS  
FLIGHT SAFETY  
FLIGHT TESTS  
FLIGHT TIME  
FREE FLIGHT  
GLIDING  
HORIZONTAL FLIGHT  
HYPERSONIC FLIGHT  
LONG DURATION SPACE FLIGHT  
LUNAR FLIGHT  
METEOROLOGICAL FLIGHT  
PARABOLIC FLIGHT  
ROCKET FLIGHT  
SOARING  
SPACE FLIGHT  
STEERING  
SUBORBITAL FLIGHT  
SUPERSONIC FLIGHT  
TRAJECTORIES  
TRANSITION FLIGHT  
TRANSOCEANIC FLIGHT  
TRANSONIC FLIGHT  
TURNING FLIGHT  
VERTICAL FLIGHT  
VISUAL FLIGHT

**FLIGHT ALTITUDE**

GS ALTITUDE  
. FLIGHT ALTITUDE  
RT AIR TRAFFIC CONTROL  
CEILING (AIRCRAFT CAPABILITY)  
MIDALTITUDE

**FLIGHT CHARACTERISTICS**

UF FLIGHT PERFORMANCE  
FLYING QUALITIES  
GS FLIGHT CHARACTERISTICS  
. FLIGHT ENVELOPES  
RT AERODYNAMICS  
AIRCRAFT MANEUVERS  
AIRCRAFT PERFORMANCE  
AIRCRAFT SPECIFICATIONS  
AIRSPEED  
BUFFETING  
CEILING (AIRCRAFT CAPABILITY)  
∞ CHARACTERISTICS  
CONTROLLABILITY  
FLUTTER  
HELICOPTER PERFORMANCE  
HIGHLY MANEUVERABLE AIRCRAFT  
LOW SPEED STABILITY  
MANEUVERABILITY  
∞ PERFORMANCE  
QUALITY

**FLIGHT CLOTHING**

GS CLOTHING  
. FLIGHT CLOTHING  
RT COVERALLS  
GARMENTS  
GOGGLES  
HELMETS

**FLIGHT CLOTHING-(CONT.)**

PRESSURE SUITS  
PROTECTIVE CLOTHING

**FLIGHT CONDITIONS**

GS CONDITIONS  
. FLIGHT CONDITIONS  
RT AVIATION METEOROLOGY  
CLOUD COVER  
INSTRUMENT FLIGHT RULES  
METEOROLOGICAL SERVICES  
STORMS (METEOROLOGY)  
VISUAL FLIGHT  
WEATHER FORECASTING

**FLIGHT CONTROL**

GS FLIGHT CONTROL  
. AUTOMATIC FLIGHT CONTROL  
. . AUTOMATIC LANDING CONTROL  
. FLY BY TUBE CONTROL  
. FLY BY WIRE CONTROL  
. POINTING CONTROL SYSTEMS  
. . ANNULAR SUSPENSION AND  
POINTING SYSTEM  
RT THRUST VECTOR CONTROL  
AEROBATICS  
AIR TRAFFIC CONTROL  
AIRCRAFT CONTROL  
AIRCRAFT INSTRUMENTS  
AIRCRAFT SURVIVABILITY  
ATTITUDE CONTROL  
ATTITUDE INDICATORS  
AUTOMATED EN ROUTE ATC  
AUTOMATIC CONTROL  
AUTOMATIC PILOTS  
∞ CONTROL  
CONTROL CONFIGURED VEHICLES  
CONTROL STABILITY  
CONTROL STICKS  
CONTROL SURFACES  
DISPLAY DEVICES  
ENTRY GUIDANCE (STS)  
FLIGHT CHARACTERISTICS  
FLIGHT MANAGEMENT SYSTEMS  
GROUND BASED CONTROL  
GROUND SUPPORT EQUIPMENT  
GUIDANCE (MOTION)  
HELICOPTER CONTROL  
IN-FLIGHT MONITORING  
INSTRUMENT APPROACH  
INSTRUMENT LANDING SYSTEMS  
MANEUVERABILITY  
MANEUVERS  
MISSILE CONTROL  
NAVIGATION  
NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
RADIO NAVIGATION  
REMOTE CONTROL  
ROCKET ENGINE CONTROL  
SOLAR COMPASSES  
SPACECRAFT CONTROL  
STABILITY AUGMENTATION  
TURBOJET ENGINE CONTROL

**FLIGHT ENVELOPES**

GS FLIGHT CHARACTERISTICS  
. FLIGHT ENVELOPES  
RT AERODYNAMIC CHARACTERISTICS  
AERODYNAMIC STABILITY  
AIRCRAFT CONTROL  
AIRCRAFT MANEUVERS  
AIRCRAFT PERFORMANCE  
AIRCRAFT STABILITY  
∞ ENVELOPES  
FLIGHT TESTS  
HELICOPTER PERFORMANCE  
MANEUVERABILITY

**FLIGHT HAZARDS**

GS HAZARDS  
. FLIGHT HAZARDS  
. . METEOROID HAZARDS  
RT AIR PIRACY  
AIR TRAFFIC  
AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
AIRCRAFT SAFETY  
AIRCRAFT SPIN  
AVIATION METEOROLOGY  
BIRD-AIRCRAFT COLLISIONS  
BIRDS  
COLLISIONS  
CRASH LANDING  
CRASHES

**FLIGHT HAZARDS-(CONT.)**

DESTRUCTION  
MICROBURSTS (METEOROLOGY)  
MIDAIR COLLISIONS  
NOISE (SOUND)  
OPERATIONAL HAZARDS  
TOXIC HAZARDS  
WEATHER

**FLIGHT INSTRUMENTS**

GS FLIGHT INSTRUMENTS  
. APPROACH INDICATORS  
. ATTITUDE INDICATORS  
. . GYRO HORIZONS  
. AUTOMATIC PILOTS  
. FLIGHT TEST INSTRUMENTS  
. HORIZON SCANNERS  
. RADIO ALTIMETERS  
RT AIR NAVIGATION  
AIRBORNE EQUIPMENT  
AIRCRAFT CONTROL  
AIRCRAFT EQUIPMENT  
AIRCRAFT INSTRUMENTS  
ALTIMETERS  
BUBBLE TECHNIQUE  
COMPASSES  
DISPLAY DEVICES  
ENGINE CONTROL  
ENGINE MONITORING INSTRUMENTS  
HEAD-UP DISPLAYS  
INSTRUMENT APPROACH  
INSTRUMENT FLIGHT RULES  
INSTRUMENT LANDING SYSTEMS  
∞ INSTRUMENTS  
LANDING INSTRUMENTS  
LIGHT AIRBORNE MULTIPURPOSE  
SYSTEM  
MEASURING INSTRUMENTS  
NAVIGATION INSTRUMENTS  
NIGHT FLIGHTS (AIRCRAFT)  
ONBOARD EQUIPMENT  
POSITION INDICATORS  
RADAR  
RADIO DIRECTION FINDERS  
RATE OF CLIMB INDICATORS  
RECORDING INSTRUMENTS  
SATELLITE INSTRUMENTS  
SOLAR COMPASSES  
SPACECRAFT INSTRUMENTS  
SPACECRAFT POSITION INDICATORS  
SPEED INDICATORS  
STAR TRACKERS  
TERCOM

**FLIGHT LOAD RECORDERS**

GS MEASURING INSTRUMENTS  
. FLIGHT LOAD RECORDERS  
RECORDING INSTRUMENTS  
. FLIGHT LOAD RECORDERS  
RT STRAIN GAGES

**FLIGHT MECHANICS**

RT AERODYNAMICS  
ASCENT TRAJECTORIES  
DESCENT TRAJECTORIES  
∞ MECHANICS (PHYSICS)  
MISSILE TRAJECTORIES  
ORBIT CALCULATION  
ORBIT DECAY  
ORBITAL MECHANICS  
∞ PLATFORMS  
REENTRY TRAJECTORIES  
RENDEZVOUS  
RENDEZVOUS TRAJECTORIES  
SPACE FLIGHT  
SPACE MECHANICS  
SPACECRAFT REENTRY  
SPACECRAFT TRAJECTORIES  
THRUST PROGRAMMING  
TRAJECTORIES  
TRAJECTORY MEASUREMENT  
TRAJECTORY OPTIMIZATION

**FLIGHT OPTIMIZATION**

GS OPTIMIZATION  
. FLIGHT OPTIMIZATION  
RT BURNING TIME  
EARTH-VENUS TRAJECTORIES  
GREAT CIRCLES  
ORBITAL MECHANICS  
ORBITS  
PARKING ORBITS  
SPACE FLIGHT  
THRUST PROGRAMMING  
TRAJECTORIES

## FLIGHT PATHS

### FLIGHT OPTIMIZATION-(CONT.) TRAJECTORY OPTIMIZATION

#### FLIGHT PATHS

GS **FLIGHT PATHS**  
 . GLIDE PATHS  
 RT **AIR NAVIGATION**  
 AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 AIRCRAFT INSTRUMENTS  
 AIRCRAFT MANEUVERS  
 AIRSPACE  
 APPROACH  
 APPROACH CONTROL  
 AREA NAVIGATION  
 CAUSTIC LINES  
 CLIMBING FLIGHT  
 COLLISION AVOIDANCE  
 COLLISIONS  
 DELAYED FLAP APPROACH  
 DESCENT  
 ∞ DRIFT  
 GLIDING  
 GLOBAL POSITIONING SYSTEM  
 GREAT CIRCLES  
 GROUND TRACKS  
 GUIDANCE (MOTION)  
 HORIZONTAL FLIGHT  
 MISSILE TRAJECTORIES  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 NAVIGATION  
 NAVIGATION AIDS  
 ORBITS  
 ∞ PATHS  
 REENTRY  
 ROCKET FLIGHT  
 SATELLITE GROUND TRACKS  
 SOLAR COMPASSES  
 SWATH WIDTH  
 TACAN  
 TRAJECTORIES  
 TURNING FLIGHT  
 UNCONTROLLED REENTRY  
 (SPACECRAFT)  
 VERTICAL FLIGHT  
 VISUAL FLIGHT

### FLIGHT PERFORMANCE USE FLIGHT CHARACTERISTICS

#### FLIGHT PLANS

RT **AIR NAVIGATION**  
 AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 APPROACH  
 INSTRUMENT FLIGHT RULES  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 ∞ PLANS  
 ROUTES  
 THRUST PROGRAMMING  
 WEATHER

#### FLIGHT RECORDERS

GS **AIRCRAFT INSTRUMENTS**  
 . **FLIGHT RECORDERS**  
 MEASURING INSTRUMENTS  
 . **FLIGHT RECORDERS**  
 RECORDING INSTRUMENTS  
 . **FLIGHT RECORDERS**

#### FLIGHT RULES

GS **RULES**  
 . **FLIGHT RULES**  
 . . INSTRUMENT FLIGHT RULES  
 . . VISUAL FLIGHT RULES  
 RT **AIR NAVIGATION**  
 AIR TRAFFIC CONTROL  
 COLLISION AVOIDANCE  
 NATIONAL AIRSPACE UTILIZATION  
 SYSTEM  
 NATIONAL AVIATION SYSTEM  
 NOISE REDUCTION

#### FLIGHT SAFETY

GS **SAFETY**  
 . **FLIGHT SAFETY**  
 RT **AEROSPACE SAFETY**  
 AIR PIRACY  
 AIR TRAFFIC CONTROL  
 AIRCRAFT ACCIDENTS  
 AIRCRAFT APPROACH SPACING  
 AIRCRAFT HAZARDS  
 AIRCRAFT SAFETY

### FLIGHT SAFETY-(CONT.)

AIRCRAFT SPIN  
 ALL-WEATHER LANDING SYSTEMS  
 AVIATION METEOROLOGY  
 COLLISION AVOIDANCE  
 CRASHES  
 CRASHWORTHINESS  
 DESTRUCTION  
 ∞ FLIGHT  
 ∞ FLIGHT STRESS  
 FLYING EJECTION SEATS  
 MIDAIR COLLISIONS  
 ONBOARD EQUIPMENT  
 SAFETY DEVICES  
 SELF SEALING  
 VISUAL FLIGHT

#### FLIGHT SIMULATION

GS **SIMULATION**  
 . **FLIGHT SIMULATION**  
 RT **ACOUSTIC SIMULATION**  
 ALTITUDE SIMULATION  
 ANALOG SIMULATION  
 COMPUTERIZED SIMULATION  
 CONTROL SIMULATION  
 ENVIRONMENT SIMULATION  
 LANDING SIMULATION  
 MOTION SIMULATION  
 SPACE ENVIRONMENT SIMULATION  
 SPACE FLIGHT  
 SYSTEMS SIMULATION  
 TRAINING SIMULATORS  
 WEIGHTLESSNESS SIMULATION

#### FLIGHT SIMULATORS

GS **SIMULATORS**  
 . TRAINING SIMULATORS  
 . . **FLIGHT SIMULATORS**  
 . . . COCKPIT SIMULATORS  
 RT **ATMOSPHERIC ENTRY SIMULATION**  
 CENTRIFUGES  
 CONTROL SIMULATION  
 CRYOGENIC WIND TUNNELS  
 LANGLEY COMPLEX COORDINATOR  
 LUNAR ORBIT AND LANDING  
 SIMULATORS  
 ∞ MISSILE SIMULATORS  
 MOTION SIMULATION  
 MOTION SIMULATORS  
 PILOT TRAINING  
 SPACE ENVIRONMENT SIMULATION  
 SPACE SIMULATORS  
 TEST FACILITIES  
 TRAINING DEVICES  
 WIND TUNNELS

#### FLIGHT STABILITY TESTS

GS **FLIGHT TESTS**  
 . **FLIGHT STABILITY TESTS**  
 STABILITY TESTS  
 . **FLIGHT STABILITY TESTS**  
 RT **AERODYNAMIC STABILITY**  
 ∞ TESTS

#### FLIGHT TECHNICAL ERROR

USE PILOT ERROR

#### FLIGHT TEST INSTRUMENTS

GS **FLIGHT INSTRUMENTS**  
 . **FLIGHT TEST INSTRUMENTS**  
 RT **AIRCRAFT INSTRUMENTS**  
 ROCKET-BORNE INSTRUMENTS  
 SPACECRAFT INSTRUMENTS

#### FLIGHT TEST VEHICLES

GS **TEST VEHICLES**  
 . **FLIGHT TEST VEHICLES**  
 RT **AIRCRAFT**  
 LAUNCH VEHICLES  
 MISSILES  
 RESEARCH AIRCRAFT  
 ∞ SPACECRAFT  
 ∞ VEHICLES

#### FLIGHT TESTS

GS **FLIGHT TESTS**  
 . **FLIGHT STABILITY TESTS**  
 . SPACE TRANSPORTATION SYSTEM  
 FLIGHTS  
 . . SPACE TRANSPORTATION SYSTEM 1  
 FLIGHT  
 . . SPACE TRANSPORTATION SYSTEM 2  
 FLIGHT  
 . . SPACE TRANSPORTATION SYSTEM 3  
 FLIGHT

### FLIGHT TESTS-(CONT.)

. . SPACE TRANSPORTATION SYSTEM 4  
 FLIGHT  
 RT **AIR START**  
 AIRCRAFT DESIGN  
 ALTITUDE TESTS  
 CERTIFICATION  
 DAST PROGRAM  
 DOWNRANGE  
 DYNAMIC TESTS  
 ENGINE TESTS  
 FLIGHT ENVELOPES  
 FREE FLIGHT TEST APPARATUS  
 FULL SCALE TESTS  
 GROUND TESTS  
 HIGH ALTITUDE TESTS  
 HIGHLY MANEUVERABLE AIRCRAFT  
 IN-FLIGHT MONITORING  
 MISSILE DESIGN  
 MISSILE TESTS  
 POSTMISSION ANALYSIS (SPACECRAFT)  
 SPACE ELECTRIC ROCKET TESTS  
 STABILITY TESTS  
 ∞ TESTS  
 VIBRATION TESTS  
 WING FLOW METHOD TESTS

#### FLIGHT TIME

GS **TIME**  
 . **FLIGHT TIME**  
 RT **AIR TRAFFIC CONTROL**  
 BURNING TIME  
 TESTING TIME  
 TRAJECTORIES  
 TRANSIT TIME  
 TURNAROUND (STS)  
 WINDOWS (INTERVALS)

#### ∞ FLIGHT VEHICLES

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)*  
 RT **AIRCRAFT CONFIGURATIONS**  
 GROUND EFFECT MACHINES  
 HYPERSONIC VEHICLES  
 LUNAR FLYING VEHICLES  
 MISSILES  
 REENTRY VEHICLES  
 RESEARCH VEHICLES  
 ROCKET VEHICLES  
 ∞ VEHICLES

#### FLOATS

UF **FLOTATION SYSTEMS**  
 RT **BALLAST (MASS)**  
 BUOYS  
 EMERGENCY LIFE SUSTAINING  
 SYSTEMS  
 FLOATING  
 INFLATABLE STRUCTURES  
 LANDING GEAR  
 LIFE RAFTS  
 RAFTS  
 SEPARATORS

#### FLOTATION SYSTEMS

USE FLOATS

#### ∞ FLOW

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)*  
 RT **AERODYNAMICS**  
 ANNULAR FLOW  
 BRILLOUIN FLOW  
 CORNER FLOW  
 CREEP PROPERTIES  
 CROSS FLOW  
 EXHAUST NOZZLES  
 FLOW EQUATIONS  
 FLOW THEORY  
 FLOW VELOCITY  
 FLUID FLOW  
 GRAZING FLOW  
 HEAT TRANSMISSION  
 INFORMATION FLOW  
 INTERACTIONAL AERODYNAMICS  
 INVISCID FLOW  
 LOW DENSITY FLOW  
 MASS FLOW  
 ORIFICE FLOW  
 OUTLET FLOW  
 PANEL METHOD (FLUID DYNAMICS)  
 PLASTIC FLOW  
 SHEAR FLOW

**FLOW-(CONT.)**

SOLIDS FLOW  
STEADY FLOW  
TRANSONIC FLOW  
UNSTEADY FLOW  
VISCOUS FLOW

**FLOW CHAMBERS**

RT  $\infty$  CHAMBERS

**FLOW CHARACTERISTICS**

GS DYNAMIC CHARACTERISTICS  
    **FLOW CHARACTERISTICS**  
    . FLOW DISTRIBUTION  
    . FLOW STABILITY  
    . . . BOUNDARY LAYER STABILITY  
    . . . FLAME STABILITY  
    . . . MAGNETOHYDRODYNAMIC STABILITY  
    . . . WEIBEL INSTABILITY  
    . . FLOW VELOCITY  
RT BAROTROPIC FLOW  
     $\infty$  CHARACTERISTICS  
    CRITICAL FLOW  
    CROSS FLOW  
    EDDY VISCOSITY  
    INVISCID FLOW  
    LAMINAR FLOW  
    NONUNIFORM FLOW  
    OUTLET FLOW  
    REATTACHED FLOW  
    SEPARATED FLOW  
    STEADY FLOW  
    STROUHAL NUMBER  
    SUBCRITICAL FLOW  
    SUPERCRITICAL FLOW  
    TURBULENCE  
    TURBULENT FLOW  
    VISCOSITY  
    VISCOUS FLOW

**FLOW COEFFICIENTS**

GS COEFFICIENTS  
    **FLOW COEFFICIENTS**  
    . DISCHARGE COEFFICIENT  
RT AERODYNAMIC COEFFICIENTS  
    ATTENUATION COEFFICIENTS  
    MASS FLOW FACTORS  
    NOZZLE THRUST COEFFICIENTS  
    REFLECTANCE  
    TRANSPORT PROPERTIES

**FLOW DEFLECTION**

RT COMPUTATIONAL FLUID DYNAMICS  
    DEFLECTORS  
    FLOW DISTRIBUTION  
    FLOW VELOCITY  
    PRANDTL-MEYER EXPANSION

**FLOW DIRECTION INDICATORS**

GS DISPLAY DEVICES  
    **FLOW DIRECTION INDICATORS**  
    . WIND VANES  
    MEASURING INSTRUMENTS  
    . INDICATING INSTRUMENTS  
    . **FLOW DIRECTION INDICATORS**  
    . . . WIND VANES

**FLOW DISTORTION**

GS DISTORTION  
    **FLOW DISTORTION**  
RT AERODYNAMIC COEFFICIENTS  
    FLUID FLOW  
    HORSESHOE VORTICES  
    MULTIPHASE FLOW  
    ORR-SOMMERFELD EQUATIONS  
    OSCILLATING FLOW  
    SMALL PERTURBATION FLOW  
    VORTICES  
    WING TIP VORTICES

**FLOW DISTRIBUTION**

UF FLOW FIELDS  
    FLOW PATTERNS  
GS DISTRIBUTION (PROPERTY)  
    **FLOW DISTRIBUTION**  
    DYNAMIC CHARACTERISTICS  
    . FLOW CHARACTERISTICS  
    . **FLOW DISTRIBUTION**  
RT BOUNDARY LAYER FLOW  
    BOUNDARY LAYER SEPARATION  
    CAVITATION FLOW  
    CHAPMAN-ENSKOG THEORY  
    EXHAUST FLOW SIMULATION  
    FIELD THEORY (PHYSICS)

**FLOW DISTRIBUTION-(CONT.)**

FLOW DEFLECTION  
 $\infty$  FLOW GRAPHS  
HYDRODYNAMIC COEFFICIENTS  
ISOTHERMAL FLOW  
METHOD OF CHARACTERISTICS  
NUMERICAL FLOW VISUALIZATION  
REATTACHED FLOW  
RHEOELECTRICAL SIMULATION  
SEPARATED FLOW  
STAGNATION POINT  
STROUHAL NUMBER  
THREE DIMENSIONAL BODIES  
TRAPPED VORTICES  
VELOCITY DISTRIBUTION  
VORTEX SHEETS  
WATER TUNNEL TESTS  
WIND TUNNEL TESTS

**FLOW EQUATIONS**

GS **FLOW EQUATIONS**  
    . BOUNDARY LAYER EQUATIONS  
    . BLASIUS EQUATION  
    . CHAPLYGIN EQUATION  
    . NAVIER-STOKES EQUATION  
    . REYNOLDS EQUATION  
    . VON KARMAN EQUATION  
    . VORTICITY EQUATIONS  
    . . HELMHOLTZ VORTICITY EQUATION  
RT BERNOULLI THEOREM  
    COMPUTATIONAL FLUID DYNAMICS  
     $\infty$  EQUATIONS  
    FLUID FLOW  
    K-EPSILON TURBULENCE MODEL  
    PARTICLE IN CELL TECHNIQUE  
    PERCUS METHOD  
    RAYLEIGH EQUATIONS  
    TURBULENCE MODELS

**FLOW FIELDS**

USE FLOW DISTRIBUTION

**FLOW GEOMETRY**

GS GEOMETRY  
    **FLOW GEOMETRY**  
RT ANNULAR FLOW  
    AXIAL FLOW  
    AXISYMMETRIC FLOW  
    BACKWARD FACING STEPS  
    BYPASS RATIO  
    CHANNEL FLOW  
    COAXIAL FLOW  
    CORE FLOW  
    CROSS FLOW  
    DUCTED FLOW  
    HELICAL FLOW  
    HORSESHOE VORTICES  
    INLET AIRFRAME CONFIGURATIONS  
    INLET FLOW  
    LAMINAR FLOW  
    MERIDIONAL FLOW  
    NOZZLE FLOW  
    ONE DIMENSIONAL FLOW  
    PARALLEL FLOW  
    RADIAL FLOW  
    STEADY FLOW  
    STRATIFIED FLOW  
    THREE DIMENSIONAL FLOW  
    TWO DIMENSIONAL FLOW  
    WEDGE FLOW

**FLOW MEASUREMENT**

GS MECHANICAL MEASUREMENT  
    **FLOW MEASUREMENT**  
RT ANEMOMETERS  
    ANNULI  
    DRAG FORCE ANEMOMETERS  
    DRAG MEASUREMENT  
    FLOWMETERS  
    FLUID FLOW  
    GAS METERS  
    HOT-FILM ANEMOMETERS  
    HOT-WIRE ANEMOMETERS  
    LASER DOPPLER VELOCIMETERS  
     $\infty$  MEASUREMENT  
    MULTIPHASE FLOW  
     $\infty$  NOZZLES  
    ORIFICES  
    PITOT TUBES  
    PNEUMATIC PROBES  
    PRESSURE MEASUREMENT  
    RHEOLOGY  
    SOLIDS FLOW  
    VELOCITY MEASUREMENT  
    VENTURI TUBES

**FLOW MEASUREMENT-(CONT.)**

WATER FLOW  
WIND VELOCITY

**FLOW PATTERNS**

USE FLOW DISTRIBUTION

**FLOW RATE**

USE FLOW VELOCITY

**FLOW REGULATORS**

GS REGULATORS  
    **FLOW REGULATORS**  
    . FUEL FLOW REGULATORS  
RT FLOWMETERS  
    OXYGEN REGULATORS  
    PRESSURE REGULATORS

**FLOW RESISTANCE**

GS FRICTION  
    **FLOW RESISTANCE**  
    . FRICTION DRAG  
    . . . AERODYNAMIC DRAG  
    . . . SUPERSONIC DRAG  
    . . . VISCOUS DRAG  
RT EDDY VISCOSITY  
     $\infty$  HIGH RESISTANCE  
     $\infty$  LOW RESISTANCE  
     $\infty$  RESISTANCE  
    SKIN FRICTION  
    VISCOSITY

**FLOW SEPARATION**

USE BOUNDARY LAYER SEPARATION  
SEPARATED FLOW

**FLOW STABILITY**

UF HYDRODYNAMIC STABILITY  
GS DYNAMIC CHARACTERISTICS  
    . DYNAMIC STABILITY  
    . MOTION STABILITY  
    . **FLOW STABILITY**  
    . . . BOUNDARY LAYER STABILITY  
    . . . FLAME STABILITY  
    . . . MAGNETOHYDRODYNAMIC STABILITY  
    . . . WEIBEL INSTABILITY  
    . FLOW CHARACTERISTICS  
    . **FLOW STABILITY**  
    . . . BOUNDARY LAYER STABILITY  
    . . . FLAME STABILITY  
    . . . MAGNETOHYDRODYNAMIC STABILITY  
    . . . WEIBEL INSTABILITY  
STABILITY  
    . DYNAMIC STABILITY  
    . MOTION STABILITY  
    . **FLOW STABILITY**  
    . . . BOUNDARY LAYER STABILITY  
    . . . FLAME STABILITY  
    . . . MAGNETOHYDRODYNAMIC STABILITY  
RT AERODYNAMIC STABILITY  
    BAROCLINIC INSTABILITY  
    DIRECTIONAL STABILITY  
    FLUID FLOW  
    GOERTLER INSTABILITY  
    HYDRODYNAMIC EQUATIONS  
    HYDROFOIL OSCILLATIONS  
    KELVIN-HELMHOLTZ INSTABILITY  
    LAMINAR FLOW  
    LATERAL STABILITY  
    LONGITUDINAL STABILITY  
    LOW SPEED STABILITY  
    ORR-SOMMERFELD EQUATIONS  
    ROTARY STABILITY  
    STEADY FLOW  
    STROUHAL NUMBER  
    SUPERSONIC DIFFUSERS  
    SYSTEMS STABILITY  
    TURBULENT FLOW  
    UNSTEADY FLOW  
    VISCOUS FLUIDS  
    VON KARMAN EQUATION  
    VORTEX BREAKDOWN  
    VORTEX FILAMENTS  
    VORTICES  
    VORTICITY

**FLOW THEORY**

GS **FLOW THEORY**  
    . MIXING LENGTH FLOW THEORY  
RT AERODYNAMICS  
    BOUNDARY LAYER EQUATIONS

## FLOW VELOCITY

### FLOW THEORY-(CONT.)

CONTINUUM MECHANICS  
DISLOCATIONS (MATERIALS)  
FLUID FLOW  
FLUID MECHANICS  
HYDRODYNAMIC EQUATIONS  
HYDRODYNAMICS  
LIGHTHILL METHOD  
MASS FLOW  
NAVIER-STOKES EQUATION  
ORR-SOMMERFELD EQUATIONS  
PANEL METHOD (FLUID DYNAMICS)  
PNEUMATICS  
RHEOLOGY  
SOLIDS FLOW  
∞ THEORIES

### FLOW VELOCITY

UF FLOW RATE  
GS DYNAMIC CHARACTERISTICS  
. FLOW CHARACTERISTICS  
. . . FLOW VELOCITY  
RATES (PER TIME)  
. FLOW VELOCITY  
. . . SOLAR WIND VELOCITY  
VELOCITY  
. FLOW VELOCITY  
. . . SOLAR WIND VELOCITY  
RT DISCHARGE COEFFICIENT  
DUMP COMBUSTORS  
EXHAUST VELOCITY  
∞ FLOW  
FLOW DEFLECTION  
HYDRODYNAMIC COEFFICIENTS  
HYPERSONIC FLOW  
HYPERVELOCITY FLOW  
LASER ANEMOMETERS  
LOW SPEED  
MASS FLOW RATE  
PARALLEL FLOW  
SUBSONIC FLOW  
SUPERSONIC FLOW  
TRANSONIC FLOW  
UNSTEADY FLOW  
VELOCITY DISTRIBUTION  
VELOCITY MEASUREMENT  
VORTEX PRECESSION

### FLOW VISUALIZATION

UF VISUALIZATION OF FLOW  
GS FLOW VISUALIZATION  
. NUMERICAL FLOW VISUALIZATION  
RT DIFFERENTIAL INTERFEROMETRY  
FLUID FLOW  
HYDRAULIC ANALOGIES  
SCHLIEREN PHOTOGRAPHY  
SHADOWGRAPH PHOTOGRAPHY  
WATER TUNNEL TESTS  
WIND TUNNEL MODELS

### FLOWMETERS

GS MEASURING INSTRUMENTS  
. FLOWMETERS  
. . . GAS METERS  
. . . HOT-WIRE FLOWMETERS  
. . . RHEOMETERS  
RT ELECTRICAL MEASUREMENT  
FLOW MEASUREMENT  
FLOW REGULATORS  
FLUID FLOW  
FUEL GAGES  
HOT-WIRE ANEMOMETERS  
MECHANICAL MEASUREMENT  
ORIFICES  
PITOT TUBES  
PRESSURE GAGES  
PRESSURE MEASUREMENT  
SONIC ANEMOMETERS  
SPEED INDICATORS  
TURBINE INSTRUMENTS  
VELOCITY MEASUREMENT  
VENTURI TUBES  
VORTEX PRECESSION

### FLTSATCOM

USE FLEET SATELLITE COMMUNICATION  
SYSTEM

### FLUE GASES

GS GASES  
. EXHAUST GASES  
. . FLUE GASES  
RT AIR POLLUTION  
COMBUSTION PRODUCTS  
DESULFURIZING

### FLUE GASES-(CONT.)

ELECTRIC POWER PLANTS  
FLUES  
POLLUTION CONTROL  
SCRUBBERS

### FLUERICs

GS FLUIDICS  
. FLUERICs  
RT FLUID AMPLIFIERS  
FLUID SWITCHING ELEMENTS  
FLUIDIC CIRCUITS  
HYDRAULIC ANALOGIES

### FLUID BOUNDARIES

GS BOUNDARIES  
. FLUID BOUNDARIES  
. . . GAS-SOLID INTERFACES  
. . . JET BOUNDARIES  
. . . LIQUID-LIQUID INTERFACES  
. . . LIQUID-SOLID INTERFACES  
. . . LIQUID-VAPOR INTERFACES  
INTERFACES  
. FLUID BOUNDARIES  
. . . GAS-SOLID INTERFACES  
. . . JET BOUNDARIES  
. . . LIQUID-LIQUID INTERFACES  
. . . LIQUID-SOLID INTERFACES  
. . . LIQUID-VAPOR INTERFACES  
RT BACKWARD FACING STEPS  
BOUNDARY LAYERS  
FREE BOUNDARIES  
HEAT TRANSFER  
INTERFACE STABILITY  
LIQUID LEVELS  
LIQUID SURFACES  
PRESSURE GRADIENTS

### FLUID DYNAMICS

UF CASCADES (FLUID DYNAMICS)  
GS FLUID MECHANICS  
. FLUID DYNAMICS  
. . . COMPUTATIONAL FLUID DYNAMICS  
. . . GAS DYNAMICS  
. . . AERODYNAMICS  
. . . . AEROTHERMODYNAMICS  
. . . . HYPERSONICS  
. . . . ROTOR AERODYNAMICS  
. . . . SUPERSONICS  
. . . . UNSTEADY AERODYNAMICS  
. . . . INTERACTIONAL AERODYNAMICS  
. . . . RAREFIED GAS DYNAMICS  
. . . . HYDRODYNAMICS  
. . . . ELASTOHYDRODYNAMICS  
. . . . ELECTROHYDRODYNAMICS  
. . . . MAGNETOHYDRODYNAMICS  
. . . . ROTONS  
. . . VORTEX SHEDDING  
RT CONTINUITY EQUATION  
CONVECTION  
CROSS FLOW  
∞ DYNAMICS  
EYRING THEORY  
FLUID MANAGEMENT  
FLUX VECTOR SPLITTING  
GAS-SOLID INTERACTIONS  
GEOPHYSICAL FLUIDS  
GLIMM METHOD  
∞ HYDRAULICS  
HYDROMECHANICS  
KINETICS  
LOW DENSITY FLOW  
MAGNUS EFFECT  
∞ MECHANICS (PHYSICS)  
OCEAN DYNAMICS  
PANEL METHOD (FLUID DYNAMICS)  
PARALLEL FLOW  
PISTON THEORY  
PRIMITIVE EQUATIONS  
QUASI-STEADY STATES  
∞ SCIENCE  
SLAMMING  
STAGNATION POINT  
STEADY STATE  
STREAMLINING  
THERMOHYDRAULICS  
TURBULENCE  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
UNSTEADY STATE  
VORTEX FILAMENTS

### FLUID FILLED SHELLS

GS SHELLS (STRUCTURAL FORMS)

### FLUID FILLED SHELLS-(CONT.)

. FLUID FILLED SHELLS  
. . . LIQUID FILLED SHELLS  
RT HYDRODYNAMIC RAM EFFECT  
PROPELLANT TANKS  
REINFORCED SHELLS  
SHELL STABILITY  
∞ STORAGE  
TANKS (CONTAINERS)  
∞ VESSELS

### FLUID FLOW

UF INDUCED FLUID FLOW  
ROTATIONAL FLOW  
GS FLUID FLOW  
. ADIABATIC FLOW  
. AXIAL FLOW  
. AXISYMMETRIC FLOW  
. . . ANNULAR FLOW  
. . . KARMAN-BODEWADT FLOW  
. . . BAROTROPIC FLOW  
. . . BASE FLOW  
. . . BELTRAMI FLOW  
. . . BLOOD FLOW  
. . . CAPILLARY FLOW  
. . . CASCADE FLOW  
. . . CHANNEL FLOW  
. . . OPEN CHANNEL FLOW  
. . . COAXIAL FLOW  
. . . COMBUSTIBLE FLOW  
. . . COMPRESSIBLE FLOW  
. . . TRANSONIC FLOW  
. . . CONICAL FLOW  
. . . CONVECTIVE FLOW  
. . . RAYLEIGH-BENARD CONVECTION  
. . . BENARD CELLS  
. . . CORE FLOW  
. . . CORNER FLOW  
. . . COUNTERFLOW  
. . . CRITICAL FLOW  
. . . CROSS FLOW  
. . . DUCTED FLOW  
. . . KNUDSEN FLOW  
. . . FREE FLOW  
. . . FUEL FLOW  
. . . PROPELLANT TRANSFER  
. . . GAS FLOW  
. . . AIR FLOW  
. . . . AIR CURRENTS  
. . . . JET STREAMS (METEOROLOGY)  
. . . . MERIDIONAL FLOW  
. . . . VERTICAL AIR CURRENTS  
. . . CONTINUUM FLOW  
. . . COOLING FLOWS (ASTROPHYSICS)  
. . . EQUILIBRIUM FLOW  
. . . FROZEN EQUILIBRIUM FLOW  
. . . SHIFTING EQUILIBRIUM FLOW  
. . . FREE MOLECULAR FLOW  
. . . KNUDSEN FLOW  
. . . MOLECULAR FLOW  
. . . SLIP FLOW  
. . . TRANSITION FLOW  
. . . NONEQUILIBRIUM FLOW  
. . . PIPE FLOW  
. . . HEAD (FLUID MECHANICS)  
. . . HEAD FLOW  
. . . PRESSURE HEADS  
. . . HELICAL FLOW  
. . . HYPERSONIC FLOW  
. . . HYPERVELOCITY FLOW  
. . . INCOMPRESSIBLE FLOW  
. . . STOKES FLOW  
. . . INLET FLOW  
. . . INVISCID FLOW  
. . . STAGNATION FLOW  
. . . ISOTHERMAL FLOW  
. . . JET FLOW  
. . . . AIR JETS  
. . . . PERIPHERAL JET FLOW  
. . . . SUPERSONIC JET FLOW  
. . . JET MIXING FLOW  
. . . LAMINAR FLOW  
. . . BLASIUS FLOW  
. . . HARTMANN FLOW  
. . . STRATIFIED FLOW  
. . . LIQUID FLOW  
. . . OPEN CHANNEL FLOW  
. . . WATER FLOW  
. . . MAGNETOHYDRODYNAMIC FLOW  
. . . MASS FLOW  
. . . MULTIPHASE FLOW  
. . . TWO PHASE FLOW  
. . . NONNEWTONIAN FLOW  
. . . NONUNIFORM FLOW  
. . . NOZZLE FLOW  
. . . ONE DIMENSIONAL FLOW



**FLUID FLOW-(CONT.)**

. ORIFICE FLOW  
 . OUTLET FLOW  
 . PARALLEL FLOW  
 . PIPE FLOW  
 . THREE DIMENSIONAL FLOW  
 . PLASTIC FLOW  
 . TRESCA FLOW  
 . POTENTIAL FLOW  
 . EQUIPOTENTIALS  
 . RADIAL FLOW  
 . RECIRCULATIVE FLUID FLOW  
 . REVERSED FLOW  
 . SHEAR FLOW  
 . SINGLE-PHASE FLOW  
 . SMALL PERTURBATION FLOW  
 . SOLIDS FLOW  
 . STEADY FLOW  
 . COUETTE FLOW  
 . HARTMANN FLOW  
 . STEAM FLOW  
 . SUBCRITICAL FLOW  
 . SUBSONIC FLOW  
 . SUPERCRITICAL FLOW  
 . SUPERSONIC FLOW  
 . TURBULENT FLOW  
 . CAVITATION FLOW  
 . SUPERCAVITATING FLOW  
 . TWO DIMENSIONAL FLOW  
 . COUETTE FLOW  
 . UNIFORM FLOW  
 . BLASIIUS FLOW  
 . UNSTEADY FLOW  
 . OSCILLATING FLOW  
 . VISCOUS FLOW  
 . BOUNDARY LAYER FLOW  
 . REATTACHED FLOW  
 . SECONDARY FLOW  
 . SEPARATED FLOW  
 . . . . BOUNDARY LAYER SEPARATION  
 . COUETTE FLOW  
 . KARMAN-BODEWADT FLOW  
 . STOKES FLOW  
 . WALL FLOW  
 . WEDGE FLOW  
 RT ACOUSTIC STREAMING  
 ANNULAR DUCTS  
 BERNOULLI THEOREM  
 BOUNDARY LAYERS  
 CANALS  
 CARTAN SPACE  
 CHEMICAL ENGINEERING  
 COAXIAL NOZZLES  
 ∞ CONDUCTIVITY  
 CONVECTION CURRENTS  
 ∞ CURRENTS  
 DIMENSIONAL ANALYSIS  
 DIMENSIONLESS NUMBERS  
 DRAG REDUCTION  
 DUCT GEOMETRY  
 EXPULSION  
 ∞ FLOW  
 FLOW DISTORTION  
 FLOW EQUATIONS  
 FLOW MEASUREMENT  
 FLOW STABILITY  
 FLOW THEORY  
 FLOW VISUALIZATION  
 FLOWMETERS  
 FLUIDICS  
 ∞ FLUIDS  
 FRICTION  
 FROUDE NUMBER  
 GEOPHYSICAL FLUID FLOW CELLS  
 HEAT TRANSMISSION  
 ∞ HYDRAULICS  
 HYDRODYNAMICS  
 HYDROMECHANICS  
 INJECTION  
 LABYRINTH SEALS  
 LEAKAGE  
 LEWIS NUMBERS  
 MAGNUS EFFECT  
 MANNING THEORY  
 MATERIALS HANDLING  
 MECHANICAL ENGINEERING  
 OCEAN CURRENTS  
 OCEAN SURFACE  
 PIPES (TUBES)  
 PLANETARY WAVES  
 PRESSURE GRADIENTS  
 RAYLEIGH WAVES  
 REYNOLDS NUMBER  
 SKIN FRICTION  
 STREAMS  
 SUPERSONIC BOUNDARY LAYERS

**FLUID FLOW-(CONT.)**

SURGES  
 SYRINGES  
 THERMOHYDRAULICS  
 ULTRASONIC CLEANING  
 VORTICES  
 WING FLOW METHOD TESTS  
  
**FLUID INJECTION**  
 GS INJECTION  
 . FLUID INJECTION  
 . . GAS INJECTION  
 . . LIQUID INJECTION  
 . . . DEEP WELL INJECTION (WASTES)  
 . . . WATER INJECTION  
 RT CHANNEL FLOW  
 FUEL INJECTION  
 INLET FLOW  
 LAMINAR MIXING  
 NOZZLE FLOW  
 SECONDARY INJECTION  
  
**FLUID JET AMPLIFIERS**  
 USE FLUID AMPLIFIERS  
 JET AMPLIFIERS  
  
**FLUID JETS**  
 GS FLUID JETS  
 . AIR JETS  
 . FREE JETS  
 . GAS JETS  
 . HYDRAULIC JETS  
 . VAPOR JETS  
 RT JET AMPLIFIERS  
 JET FLOW  
 JET MIXING FLOW  
 JET STREAMS (METEOROLOGY)  
 ∞ JETS  
 PLASMA JETS  
  
**FLUID LOGIC**  
 RT COMPUTER DESIGN  
 FLUIDIC CIRCUITS  
 FLUIDICS  
 ∞ LOGIC  
 LOGIC CIRCUITS  
  
**FLUID MANAGEMENT**  
 RT CRYOGENIC FLUID STORAGE  
 CRYOGENIC FLUIDS  
 CRYOGENIC ROCKET PROPELLANTS  
 FLUID DYNAMICS  
 FUEL CONTROL  
 REDUCED GRAVITY  
  
**FLUID MECHANICS**  
 GS FLUID MECHANICS  
 . FLUID DYNAMICS  
 . . COMPUTATIONAL FLUID DYNAMICS  
 . . GAS DYNAMICS  
 . . . AERODYNAMICS  
 . . . . AEROTHERMODYNAMICS  
 . . . . HYPERSONICS  
 . . . . ROTOR AERODYNAMICS  
 . . . . SUPERSONICS  
 . . . . UNSTEADY AERODYNAMICS  
 . . . INTERACTIONAL AERODYNAMICS  
 . . . RAREFIED GAS DYNAMICS  
 . . . HYDRODYNAMICS  
 . . . ELASTOHYDRODYNAMICS  
 . . . ELECTROHYDRODYNAMICS  
 . . . MAGNETOHYDRODYNAMICS  
 . . . ROTONS  
 . . . VORTEX SHEDDING  
 . . . HYDROMECHANICS  
 . . . HYDRODYNAMICS  
 . . . ELASTOHYDRODYNAMICS  
 . . . ELECTROHYDRODYNAMICS  
 . . . MAGNETOHYDRODYNAMICS  
 . . . HYDROSTATICS  
 . . . MAGNETOHYDROSTATICS  
 . . . PNEUMATICS  
 RT AEROSTATICS  
 ∞ BLEEDING  
 CONTINUUM MECHANICS  
 DIFFUSIVITY  
 ∞ DYNAMICS  
 FLAT PLATES  
 FLOW THEORY  
 FLUIDICS  
 ∞ HYDRAULICS  
 HYDRODYNAMIC EQUATIONS  
 INCOMPRESSIBILITY  
 KINETICS  
 MAXWELL FLUIDS

**FLUID MECHANICS-(CONT.)**

∞ MECHANICS (PHYSICS)  
 MICROPOLAR FLUIDS  
 ∞ SCIENCE  
 STATICS  
 SUPERCRITICAL FLUIDS  
 THERMODYNAMICS

**FLUID POWER**

RT COMPRESSIBLE FLUIDS  
 FLUID PRESSURE  
 FLUIDIC CIRCUITS  
 FLUIDICS  
 HYDRAULIC CONTROL  
 HYDRAULIC EQUIPMENT  
 ∞ HYDRAULICS  
 HYDRODYNAMICS  
 INCOMPRESSIBLE FLUIDS  
 PNEUMATIC CONTROL  
 PNEUMATIC EQUIPMENT  
 PNEUMATICS  
 ∞ POWER  
 ∞ PRESSURE DROP  
 WORKING FLUIDS

**FLUID PRESSURE**

GS PRESSURE  
 . FLUID PRESSURE  
 . . WATER PRESSURE  
 RT BETA FACTOR  
 FLUID POWER  
 FLUIDICS  
 ∞ FLUIDS  
 HYDRAULIC FLUIDS

**FLUID ROTOR GYROSCOPES**

GS GYROSCOPES  
 . ROTARY GYROSCOPES  
 . . FLUID ROTOR GYROSCOPES  
 RT FLOTATION  
 GIMBALS

**FLUID SWITCHING ELEMENTS**

GS CIRCUITS  
 . SWITCHING CIRCUITS  
 . . FLUID SWITCHING ELEMENTS  
 SWITCHES  
 . SWITCHING CIRCUITS  
 . . FLUID SWITCHING ELEMENTS  
 RT ACOUSTIC STREAMING  
 AUTOMATIC CONTROL VALVES  
 FLIP-FLOPS  
 FLUERICS  
 FLUIDIC CIRCUITS  
 FLUIDICS  
 HYDRAULIC EQUIPMENT  
 PNEUMATIC EQUIPMENT

**FLUID TRANSMISSION LINES**

GS TRANSMISSION LINES  
 . FLUID TRANSMISSION LINES  
 RT HYDRAULIC FLUIDS  
 TRANSMISSION FLUIDS  
 WORKING FLUIDS

**FLUID TRANSPIRATION**

USE TRANSPIRATION

**FLUIDIC CIRCUITS**

GS CIRCUITS  
 . FLUIDIC CIRCUITS  
 FLIP-FLOPS  
 RT FLUERICS  
 FLUID AMPLIFIERS  
 FLUID LOGIC  
 FLUID POWER  
 FLUID SWITCHING ELEMENTS  
 FLUIDICS  
 FLY BY TUBE CONTROL

**FLUIDICS**

GS FLUIDICS  
 . FLUERICS  
 RT AMPLIFICATION  
 ∞ CONTROL  
 FLUID AMPLIFIERS  
 FLUID FLOW  
 FLUID LOGIC  
 FLUID MECHANICS  
 FLUID POWER  
 FLUID PRESSURE  
 FLUID SWITCHING ELEMENTS  
 FLUIDIC CIRCUITS  
 HYDRAULIC ANALOGIES  
 HYDRAULIC CONTROL

## FLUIDS

### FLUIDICS-(CONT.)

∞ LOGIC  
PNEUMATIC CIRCUITS  
PNEUMATIC CONTROL  
PNEUMATIC EQUIPMENT  
PNEUMATICS

### ∞ FLUIDS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)

RT ANISOTROPIC FLUIDS  
BINARY FLUIDS  
BODY FLUIDS  
CEREBROSPINAL FLUID  
COMPRESSIBLE FLUIDS  
CRYOGENIC FLUIDS  
FERROFLUIDS  
FLUID FLOW  
FLUID PRESSURE  
GASES  
GYROSCOPE FLUIDS  
HIGH TEMPERATURE FLUIDS  
HYDRAULIC FLUIDS  
IDEAL FLUIDS  
INCOMPRESSIBLE FLUIDS  
LIQUIDS  
MAXWELL FLUIDS  
MICROPOLAR FLUIDS  
NEWTONIAN FLUIDS  
NONEQUILIBRIUM FLOW  
NONNEWTONIAN FLUIDS  
RHEOLOGY  
ROTATING FLUIDS  
SERUMS  
SIPHONING  
SOLIDS  
SUPERCRITICAL FLUIDS  
SUPERFLUIDITY  
TRANSMISSION FLUIDS  
VISCOUS FLUIDS  
WEIGHTLESS FLUIDS  
WORKING FLUIDS

### FLUTTER

UF AERODYNAMIC BUZZ  
AEROMAGNETO FLUTTER  
GS VIBRATION  
. STRUCTURAL VIBRATION  
. FLUTTER  
. . . PANEL FLUTTER  
. . . SUBSONIC FLUTTER  
. . . SUPERSONIC FLUTTER  
. . . TRANSONIC FLUTTER  
RT AERODYNAMIC NOISE  
AERODYNAMIC STABILITY  
AEROELASTIC RESEARCH WINGS  
AEROELASTICITY  
AIRFOIL OSCILLATIONS  
BENDING  
BENDING VIBRATION  
BOUNDARY LAYER CONTROL  
BUFFETING  
COMPRESSIBILITY EFFECTS  
DAST PROGRAM  
FLAPPING  
FLIGHT CHARACTERISTICS  
FORCED VIBRATION  
HOVERING  
HYDROFOIL OSCILLATIONS  
INFLUENCE COEFFICIENT  
MISSILE VIBRATION  
RANDOM VIBRATION  
RESONANT VIBRATION  
SELF INDUCED VIBRATION  
SHAKING  
SPACECRAFT MOTION  
TURBULENCE EFFECTS  
UNDAMPED OSCILLATIONS  
UNSTEADY AERODYNAMICS  
VIBRATION SIMULATORS  
VIBRATION TESTS  
VIBRATIONAL STRESS  
WING OSCILLATIONS

### FLUTTER ANALYSIS

GS STRUCTURAL ANALYSIS  
. FLUTTER ANALYSIS  
RT AEROELASTIC RESEARCH WINGS  
AIRFOIL OSCILLATIONS  
STRUCTURAL VIBRATION  
UNSTEADY AERODYNAMICS

### ∞ FLUX

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)

RT FLUX (RATE)  
FLUX DENSITY  
FLUX QUANTIZATION  
FLUXES  
LEVEL (QUANTITY)

### FLUX VECTOR SPLITTING

GS ANALYSIS (MATHEMATICS)  
. NUMERICAL ANALYSIS  
. FLUX VECTOR SPLITTING  
RT COMPUTATION  
COMPUTATIONAL FLUID DYNAMICS  
EIGENVALUES  
FINITE DIFFERENCE THEORY  
FLUID DYNAMICS  
PANEL METHOD (FLUID DYNAMICS)  
VECTOR ANALYSIS  
VECTORS (MATHEMATICS)

### FLUXMETERS

USE MAGNETIC MEASUREMENT  
MEASURING INSTRUMENTS

### FLY BY WIRE CONTROL

UF ELECTRIC AIRCRAFT  
GS FLIGHT CONTROL  
. FLY BY WIRE CONTROL  
RT AIRCRAFT CONTROL  
∞ CONTROL  
GROUND BASED CONTROL  
SPACECRAFT CONTROL

### FLYING

USE FLIGHT

### FLYING BEDSTEAD AIRCRAFT

USE FLYING PLATFORMS

### FLYING CRANE HELICOPTER

USE H-17 HELICOPTER

### FLYING EJECTION SEATS

GS ONBOARD EQUIPMENT  
. AIRCRAFT EQUIPMENT  
. . EJECTION SEATS  
. . . FLYING EJECTION SEATS  
SAFETY DEVICES  
. EJECTION SEATS  
. . FLYING EJECTION SEATS  
SEATS  
. EJECTION SEATS  
. . FLYING EJECTION SEATS  
RT ABORT APPARATUS  
AIRCRAFT SAFETY  
BAILOUT  
COCKPITS  
EJECTORS  
ESCAPE CAPSULES  
FLIGHT SAFETY  
JET ENGINES  
PROTECTION

### FLYING PLATFORM STABILITY

USE AERODYNAMIC STABILITY  
FLYING PLATFORMS

### FLYING PLATFORMS

UF FLYING BEDSTEAD AIRCRAFT  
FLYING PLATFORM STABILITY  
GS V/STOL AIRCRAFT  
. VERTICAL TAKEOFF AIRCRAFT  
. . FLYING PLATFORMS  
RT ∞ AIRCRAFT  
GROUND EFFECT MACHINES  
JET AIRCRAFT  
OBSERVATION AIRCRAFT  
∞ PLATFORMS  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
∞ SUBSONIC AIRCRAFT  
VZ-8 AIRCRAFT

### FLYING QUALITIES

USE FLIGHT CHARACTERISTICS

### FLYING WING AIRCRAFT

USE TAILLESS AIRCRAFT

### FOG

GS MIXTURES

### FOG-(CONT.)

. DISPERSIONS  
. . COLLOIDS  
. . . AEROSOLS  
. . . . FOG  
. . . LIQUID-GAS MIXTURES  
. . . AEROSOLS  
. . . . FOG  
PARTICLES  
. AEROSOLS  
. . FOG  
RT ANVIL CLOUDS  
AVIATION METEOROLOGY  
CIRROCUMULUS CLOUDS  
CIRROSTRATUS CLOUDS  
CLOUDS (METEOROLOGY)  
DROP SIZE  
HAZE  
HAZE DETECTION  
MIST  
PRECIPITATION (METEOROLOGY)  
SMOG  
SMOKE  
STEAM  
STRATUS CLOUDS  
VISIBILITY

### FOKKER AIRCRAFT

GS FOKKER AIRCRAFT  
. F-27 AIRCRAFT  
. F-28 TRANSPORT AIRCRAFT  
RT ∞ AIRCRAFT

### FOKKER F 27 AIRCRAFT

USE F-27 AIRCRAFT

### FOKKER F 28 AIRCRAFT

USE F-28 TRANSPORT AIRCRAFT

### FOKKER FRIENDSHIP AIRCRAFT

USE F-27 AIRCRAFT

### FOKKER-PLANCK EQUATION

GS ANALYSIS (MATHEMATICS)  
. REAL VARIABLES  
. . DIFFERENTIAL EQUATIONS  
. . . PARTIAL DIFFERENTIAL EQUATIONS  
. . . . FOKKER-PLANCK EQUATION  
RT BOLTZMANN TRANSPORT EQUATION  
BROWNIAN MOVEMENTS  
DENSITY DISTRIBUTION  
DIFFUSION THEORY  
∞ EQUATIONS  
IONIZED GASES  
STOCHASTIC PROCESSES

### FOLDING FIN AIRCRAFT ROCKET VEHICLE

UF FFAR ROCKET VEHICLE  
GS ROCKET VEHICLES  
. FOLDING FIN AIRCRAFT ROCKET  
VEHICLE  
RT ∞ AIRCRAFT  
SOLID PROPELLANT ROCKET ENGINES

### FOLDING STRUCTURES

UF ROGALLO WINGS  
TELESCOPING STRUCTURES  
GS FOLDING STRUCTURES  
. SAILWINGS  
RT ANTENNAS  
BALLOONS  
BALLUTES  
EXPANDABLE STRUCTURES  
FURLABLE ANTENNAS  
INFLATABLE STRUCTURES  
PADDLES  
PARACHUTES  
PARAGLIDERS  
PARAVULCOONS  
PARAWINGS  
ROTARY WINGS  
SPACE ERECTABLE STRUCTURES  
SPACECRAFT STRUCTURES  
∞ STRUCTURES  
VARIABLE GEOMETRY STRUCTURES  
VARIABLE SWEEP WINGS

### FORCE VECTOR RECORDERS

GS MEASURING INSTRUMENTS  
. FORCE VECTOR RECORDERS  
RECORDING INSTRUMENTS  
. . FORCE VECTOR RECORDERS  
RT ∞ INSTRUMENTS

**FORCED CONVECTION**

GS CONVECTION  
 . **FORCED CONVECTION**  
 RT BLOWING  
 CONVECTIVE HEAT TRANSFER  
 FREE CONVECTION  
 HEAT TRANSFER  
 LAMINAR FLOW  
 PRANDTL NUMBER  
 RAYLEIGH-BENARD CONVECTION  
 STANTON NUMBER

**FOREBODIES**

GS **FOREBODIES**  
 . NOSES (FOREBODIES)  
 . . . NOSE CONES  
 . . . ABLATIVE NOSE CONES  
 . . . ROCKET NOSE CONES  
 RT AFTERBODIES  
 AIRCRAFT STRUCTURES  
 BLUFF BODIES  
 BLUNT BODIES  
 BLUNT LEADING EDGES  
 ∞ BOWS  
 CENTERBODIES  
 CYLINDRICAL BODIES  
 HAMMERHEAD CONFIGURATION  
 LEADING EDGES  
 SHARP LEADING EDGES

**FOREIGN BODIES**

RT AIRCRAFT HAZARDS  
 ∞ BODIES  
 INJURIES  
 METEORITES

**FOSSIL FUELS**

GS RESOURCES  
 . EARTH RESOURCES  
 . . **FOSSIL FUELS**  
 . . . COAL  
 . . . ANTHRACITE  
 . . . LIGNITE  
 . . . SOLVENT REFINED COAL  
 . . . CRUDE OIL  
 . . . NATURAL GAS  
 . . . PEAT  
 RT CARBONACEOUS MATERIALS  
 UNDERWATER RESOURCES

**FRAME PHOTOGRAPHY**

GS PHOTOGRAPHY  
 . **FRAME PHOTOGRAPHY**  
 RT BLACK AND WHITE PHOTOGRAPHY  
 FRAMING CAMERAS  
 HIGH SPEED CAMERAS

**FREDHOLM EQUATIONS**

UF FREDHOLM OPERATORS  
 GS ANALYSIS (MATHEMATICS)  
 . FUNCTIONAL ANALYSIS  
 . . INTEGRAL EQUATIONS  
 . . . **FREDHOLM EQUATIONS**  
 RT ∞ EQUATIONS  
 POMERANCHUK THEOREM

**FREDHOLM OPERATORS**

USE FREDHOLM EQUATIONS  
 OPERATORS (MATHEMATICS)

**FREE BOUNDARIES**

GS BOUNDARIES  
 . **FREE BOUNDARIES**  
 RT FLUID BOUNDARIES  
 INTERFACES  
 JET FLOW  
 JET MIXING FLOW  
 JET STREAMS (METEOROLOGY)  
 LIQUID SURFACES  
 LIQUID-LIQUID INTERFACES  
 LIQUID-VAPOR INTERFACES

**FREE CONVECTION**

UF THERMAL CONVECTION  
 GS CONVECTION  
 . **FREE CONVECTION**  
 . . RAYLEIGH-BENARD CONVECTION  
 . . . BENARD CELLS  
 RT CONVECTION CURRENTS  
 CONVECTIVE FLOW  
 CONVECTIVE HEAT TRANSFER  
 FORCED CONVECTION  
 LAMINAR FLOW  
 MARANGONI CONVECTION  
 POROUS BOUNDARY LAYER CONTROL

**FREE CONVECTION-(CONT.)**

TEMPERATURE  
 THERMOSIPHONS  
 TURBULENT FLOW

**FREE FLIGHT**

RT ∞ FLIGHT  
 GLIDERS  
 GLIDING  
 HANG GLIDERS

**FREE FLIGHT TEST APPARATUS**

RT FLIGHT TESTS  
 ∞ TEST EQUIPMENT

**FREE FLOW**

UF FREE STREAM EFFECTS  
 FREE STREAMS  
 GS FLUID FLOW  
 . **FREE FLOW**  
 RT VOID RATIO

**FREE JETS**

GS FLUID JETS  
 . **FREE JETS**  
 RT JET BOUNDARIES  
 JET FLOW  
 ∞ JETS

**FREE MOLECULAR FLOW**

GS FLUID FLOW  
 . GAS FLOW  
 . . **FREE MOLECULAR FLOW**  
 RT CONTINUUM FLOW  
 KINETIC THEORY  
 KNUDSEN FLOW  
 MOLECULAR BEAMS  
 RAREFIED GAS DYNAMICS  
 RAREFIED GASES  
 SLIP FLOW  
 TRANSITION FLOW

**FREE STREAM EFFECTS**

USE FREE FLOW

**FREE STREAMS**

USE FREE FLOW

**FREE WING AIRCRAFT**

RT AERODYNAMICS  
 ∞ AIRCRAFT  
 AIRCRAFT DESIGN  
 CONTROL SURFACES

**FREEDOM FIGHTER AIRCRAFT**

USE F-5 AIRCRAFT

**FREEZING**

GS PHASE TRANSFORMATIONS  
 . **FREEZING**  
 . . VIBRATIONAL FREEZING  
 . . ZONE MELTING  
 RT ANTIFREEZES  
 BAY ICE  
 CLOUD GLACIATION  
 COLD TRAPS  
 COOLING  
 CRYOGENIC COOLING  
 CRYSTALLIZATION  
 FREEZE DRYING  
 FROST  
 ICE FORMATION  
 ICE NUCLEI  
 LOW TEMPERATURE  
 MELTING  
 PRESERVING  
 PRESSURE ICE  
 REFRIGERATING  
 SEA ICE  
 SOLIDIFICATION  
 SOLIDIFIED GASES

**FREIGHT**

USE CARGO

**FREIGHT COSTS**

GS COSTS  
 . **FREIGHT COSTS**  
 RT CARGO  
 FREIGHTERS  
 TRANSPORTATION

**FRICTION**

GS **FRICTION**

**FRICTION-(CONT.)**

. DRY FRICTION  
 . FLOW RESISTANCE  
 . . FRICTION DRAG  
 . . . AERODYNAMIC DRAG  
 . . . . SUPERSONIC DRAG  
 . . . VISCIOUS DRAG  
 . . . INTERNAL FRICTION  
 . . . KINETIC FRICTION  
 . . . SLIDING FRICTION  
 . . . SKIN FRICTION  
 . . . FRICTION DRAG  
 . . . AERODYNAMIC DRAG  
 . . . . SUPERSONIC DRAG  
 . . . VISCIOUS DRAG  
 . . . STATIC FRICTION  
 RT ABRASION  
 COEFFICIENT OF FRICTION  
 DRAG  
 DRAG REDUCTION  
 ENERGY DISSIPATION  
 FLUID FLOW  
 MECHANICAL IMPEDANCE  
 ∞ PRESSURE DROP  
 SCORING  
 SURFACE PROPERTIES  
 SURFACE ROUGHNESS  
 TRACTION  
 TRIBOLOGY  
 TRIBOLUMINESCENCE  
 WEAR  
 WEAR TESTS  
 WHEEL BRAKES

**FRICTION DRAG**

UF NONEQUILIBRIUM DRAG  
 GS DYNAMIC CHARACTERISTICS  
 . DRAG  
 . . **FRICTION DRAG**  
 . . . AERODYNAMIC DRAG  
 . . . . SUPERSONIC DRAG  
 . . . VISCIOUS DRAG  
 FRICTION  
 . FLOW RESISTANCE  
 . . **FRICTION DRAG**  
 . . . AERODYNAMIC DRAG  
 . . . . SUPERSONIC DRAG  
 . . . VISCIOUS DRAG  
 . . . SKIN FRICTION  
 . . . **FRICTION DRAG**  
 . . . AERODYNAMIC DRAG  
 . . . . SUPERSONIC DRAG  
 . . . VISCIOUS DRAG  
 RT MINIMUM DRAG  
 PRESSURE DRAG  
 RIBBLETS  
 SATELLITE DRAG  
 SURFACE ROUGHNESS EFFECTS  
 WAVE DRAG

**FRICTION MEASUREMENT**

GS MECHANICAL MEASUREMENT  
 . **FRICTION MEASUREMENT**  
 RT ELASTOHYDRODYNAMICS  
 KINETIC FRICTION  
 ∞ MEASUREMENT  
 STATIC FRICTION

**FRICTION PRESSURE DROP**

USE SKIN FRICTION

**FRICTIONLESS ENVIRONMENTS**

GS ENVIRONMENTS  
 . **FRICTIONLESS ENVIRONMENTS**  
 RT DEEP SPACE  
 LEVITATION

**FRINGE MULTIPLICATION**

RT DIFFRACTION PATTERNS  
 INTERFERENCE GRATING  
 MOIRE EFFECTS  
 MOIRE FRINGES  
 MULTIPLICATION  
 PHOTOELASTIC ANALYSIS  
 STRESS ANALYSIS  
 STRESS CONCENTRATION

**FRONTS**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)*  
 RT COLD FRONTS  
 FRONTS (METEOROLOGY)  
 SHOCK FRONTS  
 WARM FRONTS

## FROUDE NUMBER

### FRONTS-(CONT.)

WAVE FRONTS

### FROUDE NUMBER

GS RATIOS  
... DIMENSIONLESS NUMBERS  
... **FROUDE NUMBER**  
RT FLUID FLOW  
INERTIA  
KINETIC ENERGY  
POTENTIAL ENERGY  
REYNOLDS NUMBER  
STROUHAL NUMBER

### FROZEN EQUILIBRIUM FLOW

GS FLUID FLOW  
... GAS FLOW  
... EQUILIBRIUM FLOW  
... **FROZEN EQUILIBRIUM FLOW**  
RT SHIFTING EQUILIBRIUM FLOW

### FUEL COMBUSTION

GS COMBUSTION  
... **FUEL COMBUSTION**  
... NUCLEAR FUEL BURNUP  
RT COMBUSTION EFFICIENCY  
COMBUSTION STABILITY  
EROSIVE BURNING  
HYDROCARBON COMBUSTION  
HYPERSONIC COMBUSTION  
IGNITION  
METAL COMBUSTION  
OXIDATION  
PROPELLANT COMBUSTION  
SOLID PROPELLANT COMBUSTION  
SPONTANEOUS COMBUSTION  
SUPERSONIC COMBUSTION

### FUEL CONSERVATION

USE FUEL CONSUMPTION

### FUEL CONSUMPTION

UF FUEL CONSERVATION  
GS CONSUMPTION  
... **FUEL CONSUMPTION**  
RT BURNING RATE  
COMBUSTION EFFICIENCY  
ENERGY CONSUMPTION  
ENERGY REQUIREMENTS  
ENGINES  
INTERNAL COMBUSTION ENGINES  
REFUELING

### FUEL CONTAMINATION

GS CONTAMINATION  
... **FUEL CONTAMINATION**  
RT ANTIICING ADDITIVES  
CONTAMINANTS  
REFUELING

### FUEL CONTROL

RT COMBUSTION CONTROL  
... CONTROL  
ENGINE CONTROL  
FLUID MANAGEMENT  
LIQUID SLOSHING  
PROPELLANT TRANSFER  
REFUELING  
ROCKET ENGINE CONTROL  
TURBOJET ENGINE CONTROL

### FUEL CORROSION

GS CORROSION  
... **FUEL CORROSION**  
RT PROPELLANT DECOMPOSITION  
PROPELLANT STORABILITY

### FUEL FLOW

GS FLUID FLOW  
... **FUEL FLOW**  
... PROPELLANT TRANSFER  
RT COMBUSTIBLE FLOW  
DUCTED FLOW  
PARTICLE LADEN JETS

### FUEL FLOW REGULATORS

GS REGULATORS  
... FLOW REGULATORS  
... **FUEL FLOW REGULATORS**

### FUEL GAGES

GS MEASURING INSTRUMENTS  
... **FUEL GAGES**  
... CAPACITIVE FUEL GAGES

### FUEL GAGES-(CONT.)

RT FLOWMETERS

### FUEL INJECTION

UF INJECTION CARBURETORS  
GS INJECTION  
... **FUEL INJECTION**  
RT BURNERS  
CARBURETORS  
FLUID INJECTION  
GAS INJECTION  
INJECTORS  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
JET MIXING FLOW  
... JET NOZZLES  
LIQUID INJECTION  
PISTON ENGINES  
PROPELLANT SPRAYS  
SPRAY NOZZLES

### FUEL OILS

GS FUELS  
... CLEAN FUELS  
... **FUEL OILS**  
OILS  
... **FUEL OILS**  
RT ENERGY POLICY  
KEROGEN  
KEROSENE  
SHAPE OIL  
SOLVENT REFINED COAL

### FUEL PRODUCTION

RT CHEMICAL FUELS  
COMPOSITE PROPELLANTS  
CRUDE OIL  
FISSION  
... FUSION  
HYDROCARBON FUELS  
HYDROGEN FUELS  
LIQUID FUELS  
NUCLEAR FUELS  
... PRODUCTION

### FUEL PUMPS

GS PUMPS  
... **FUEL PUMPS**  
RT AIRCRAFT FUEL SYSTEMS  
AXIAL FLOW PUMPS  
CENTRIFUGAL PUMPS  
ELECTROMAGNETIC PUMPS  
INTERNAL COMBUSTION ENGINES  
JET ENGINES  
JET PUMPS  
MATERIALS HANDLING  
TURBINE PUMPS

### FUEL SPRAYS

RT LIQUID INJECTION  
PROPELLANT SPRAYS  
SPRAYERS

### FUEL SYSTEMS

GS **FUEL SYSTEMS**  
... AIRCRAFT FUEL SYSTEMS  
RT ACCUMULATORS  
AUTOMOBILES  
BUNKERS (FUEL)  
CARBURETORS  
CHOKES (FUEL SYSTEMS)  
ENGINES  
FEEDERS  
FUELS  
INJECTORS  
INLET TEMPERATURE  
INTAKE SYSTEMS  
INTERNAL COMBUSTION ENGINES  
MANIFOLDS  
PLENUM CHAMBERS  
PROPELLANT TRANSFER  
REFUELING  
SELF SEALING  
SPRAY NOZZLES  
... SYSTEMS

### FUEL TANK PRESSURIZATION

GS PRESSURIZING  
... **FUEL TANK PRESSURIZATION**  
RT AIRCRAFT FUEL SYSTEMS  
EXHAUST SYSTEMS  
EXPULSION BLADDERS  
LIQUID ROCKET PROPELLANTS  
PRESSURE  
PRESSURE REGULATORS

### FUEL TANK PRESSURIZATION-(CONT.)

PRESSURE VESSELS  
PROPELLANT STORAGE  
PROPELLANT TANKS  
PROPULSION  
RELIEF VALVES  
ULLAGE  
VAPOR PRESSURE

### FUEL TANKS

GS TANKS (CONTAINERS)  
... **FUEL TANKS**  
... WING TANKS  
RT AIRCRAFT FUEL SYSTEMS  
... CONTAINERS  
CORROSION PREVENTION  
CRYOGENIC FLUID STORAGE  
CYLINDRICAL TANKS  
EXPULSION BLADDERS  
EXTERNAL TANKS  
FEED SYSTEMS  
FUELS  
HEATING EQUIPMENT  
LIQUID SLOSHING  
PODS (EXTERNAL STORES)  
PRESSURE VESSELS  
PROPELLANT STORAGE  
PROPELLANT TANKS  
PROPELLANTS  
PROPULSION  
PROTUBERANCES  
SPACECRAFT STRUCTURES  
SPHERICAL TANKS  
STORAGE TANKS  
TANKER AIRCRAFT  
ULLAGE

### FUEL TESTS

GS **FUEL TESTS**  
... REACTOR STARTUP TESTS  
RT CHEMICAL ANALYSIS  
CORROSION TESTS  
ENGINE TESTS  
... MATERIALS TESTS  
MISSILE TESTS  
PROPELLANT TESTS  
STABILITY TESTS  
TEST FIRING  
... TESTS

### FUEL VALVES

GS VALVES  
... **FUEL VALVES**  
RT AIRCRAFT FUEL SYSTEMS  
GAS VALVES  
RELIEF VALVES

### FUEL-AIR RATIO

GS RATIOS  
... **FUEL-AIR RATIO**  
RT BURNING RATE  
COMBUSTION EFFICIENCY  
COMPRESSION RATIO  
GAS MIXTURES  
IGNITION LIMITS  
PREMIXING  
PRESSURE RATIO  
VOLUMETRIC EFFICIENCY

### FUELS

GS **FUELS**  
... CHEMICAL FUELS  
... ENDOTHERMIC FUELS  
... HIGH ENERGY FUELS  
... HYDROCARBON FUELS  
... DIESEL FUELS  
... GASOLINE  
... JET ENGINE FUELS  
... JP-4 JET FUEL  
... JP-5 JET FUEL  
... JP-6 JET FUEL  
... JP-8 JET FUEL  
... LIQUEFIED NATURAL GAS  
... SYNTHANE  
... LIQUID FUELS  
... AIRCRAFT FUELS  
... ANTIMISTING FUELS  
... AUTOMOBILE FUELS  
... DIESEL FUELS  
... GASOLINE  
... HYDROGEN FUELS  
... JET ENGINE FUELS  
... JP-4 JET FUEL  
... JP-5 JET FUEL  
... JP-6 JET FUEL

## FUELS-(CONT.)

. . . . JP-8 JET FUEL  
 . . . . KEROSENE  
 . . . . METAL FUELS  
 . . . . SYNTHETIC FUELS  
 . . . . GASOHOL (FUEL)  
 . . . . SYNTHANE  
 . . . . CLEAN FUELS  
 . . . . FUEL OILS  
 . . . . COKE  
 . . . . FISSILE FUELS  
 . . . . GASEOUS FUELS  
 . . . . NATURAL GAS  
 . . . . MONOPROPELLANTS  
 . . . . AEROZINE  
 . . . . NUCLEAR FUELS  
 . . . . CERAMIC NUCLEAR FUELS  
 . . . . FISSION  
 . . . . SPENT FUELS  
 RT BIOCONVERSION  
 BURNING RATE  
 CHARCOAL  
 ENERGY POLICY  
 ENERGY STORAGE  
 FLAMES  
 FUEL SYSTEMS  
 FUEL TANKS  
 GASES  
 HYDROGEN  
 HYDROGEN PRODUCTION  
 KEROGEN  
 LIQUID AMMONIA  
 LIQUID HYDROGEN  
 NUCLEAR FUEL ELEMENTS  
 OILS  
 OPERATING COSTS  
 OXIDIZERS  
 PREMIXING  
 PROPELLANTS  
 ROCKET PROPELLANTS  
 SHALE OIL  
 TRANSPORTATION ENERGY

## FULL SCALE TESTS

RT ALTITUDE TESTS  
 ENGINE TESTS  
 FLIGHT TESTS  
 GROUND TESTS  
 HIGH ALTITUDE TESTS  
 ∞ TESTS

## FUSELAGE MOUNTING

USE AIRCRAFT PRODUCTION

## FUSELAGES

GS AIRCRAFT STRUCTURES  
 . FUSELAGES  
 RT AIRCRAFT CONSTRUCTION MATERIALS  
 AIRCRAFT PARTS  
 AIRFRAMES  
 BAYS (STRUCTURAL UNITS)  
 BODY-WING AND TAIL CONFIGURATIONS  
 CAMBER  
 CENTERBODIES  
 COCKPITS  
 CYLINDRICAL BODIES  
 HULLS (STRUCTURES)  
 WING-FUSELAGE STORES

## FUSIFORM SHAPES

USE CONES

## FV-12A AIRCRAFT

GS ATTACK AIRCRAFT  
 . FIGHTER AIRCRAFT  
 . FV-12A AIRCRAFT  
 V/STOL AIRCRAFT  
 . FV-12A AIRCRAFT  
 RT ∞ AIRCRAFT  
 ∞ MILITARY AIRCRAFT

## F4H AIRCRAFT

USE F-4 AIRCRAFT

## F8U AIRCRAFT

USE F-8 AIRCRAFT

## F9F AIRCRAFT

USE F-9 AIRCRAFT

## G

## G FORCE

USE ACCELERATION (PHYSICS)

## G-1 AIRCRAFT

UF NAVION G-1 AIRCRAFT  
 NAVION RANGEMASTER AIRCRAFT  
 RANGEMASTER AIRCRAFT  
 GS GENERAL AVIATION AIRCRAFT  
 . G-1 AIRCRAFT  
 LIGHT AIRCRAFT  
 . G-1 AIRCRAFT  
 MONOPLANES  
 . G-1 AIRCRAFT  
 NAVION AIRCRAFT  
 . G-1 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . G-1 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . G-1 AIRCRAFT  
 RT ∞ AIRCRAFT

## G-91 AIRCRAFT

UF FIAT G-91 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . FIGHTER AIRCRAFT  
 . G-91 AIRCRAFT  
 FIAT AIRCRAFT  
 . G-91 AIRCRAFT  
 JET AIRCRAFT  
 . G-91 AIRCRAFT  
 LIGHT AIRCRAFT  
 . G-91 AIRCRAFT  
 MONOPLANES  
 . G-91 AIRCRAFT  
 OBSERVATION AIRCRAFT  
 . G-91 AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 . G-91 AIRCRAFT  
 TRAINING AIRCRAFT  
 . G-91 AIRCRAFT  
 RT ∞ AIRCRAFT

## G-95/4 AIRCRAFT

UF FIAT G-95/4 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . FIGHTER AIRCRAFT  
 . G-95/4 AIRCRAFT  
 FIAT AIRCRAFT  
 . G-95/4 AIRCRAFT  
 JET AIRCRAFT  
 . G-95/4 AIRCRAFT  
 MONOPLANES  
 . G-95/4 AIRCRAFT  
 OBSERVATION AIRCRAFT  
 . G-95/4 AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 . G-95/4 AIRCRAFT  
 SUPERSONIC AIRCRAFT  
 . G-95/4 AIRCRAFT  
 V/STOL AIRCRAFT  
 . G-95/4 AIRCRAFT  
 RT ∞ AIRCRAFT

## GA-5 AIRCRAFT

UF GLOSTER GA-5 AIRCRAFT  
 JAVELIN AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . FIGHTER AIRCRAFT  
 . GA-5 AIRCRAFT  
 HAWKER SIDDELEY AIRCRAFT  
 . GA-5 AIRCRAFT  
 JET AIRCRAFT  
 . GA-5 AIRCRAFT  
 MONOPLANES  
 . GA-5 AIRCRAFT  
 RT ∞ AIRCRAFT  
 DELTA WINGS

## GAGES

USE MEASURING INSTRUMENTS

## GALAXY AIRCRAFT

USE C-5 AIRCRAFT

## GAS BAGS

GS BAGS  
 . GAS BAGS  
 EXPANDABLE STRUCTURES  
 . INFLATABLE STRUCTURES  
 . GAS BAGS  
 RT BALLOONS  
 HIGH ALTITUDE BALLOONS

## GAS COOLING

SN (COOLING WITH GAS)  
 GS COOLING  
 . GAS COOLING  
 RT COOLANTS  
 FREON  
 HEAT EXCHANGERS

## GAS DENSITY

GS DENSITY (MASS/VOLUME)  
 . GAS DENSITY  
 RT ATOM CONCENTRATION  
 BUOYANCY  
 CONVECTIVE FLOW  
 GASEOUS DIFFUSION  
 IDEAL GAS  
 PROBABILITY DENSITY FUNCTIONS  
 RAREFIED GASES  
 REAL GASES

## GAS DETECTORS

RT DETECTION  
 ∞ DETECTORS  
 HAZE DETECTION  
 IDENTIFYING  
 INDICATING INSTRUMENTS  
 MONITORS  
 ∞ PROBES  
 ∞ SENSORS  
 SMOKE DETECTORS  
 WARNING SYSTEMS

## GAS DISSOCIATION

GS DISSOCIATION  
 . GAS DISSOCIATION  
 RT THERMAL DISSOCIATION

## GAS DYNAMICS

GS FLUID MECHANICS  
 . FLUID DYNAMICS  
 . GAS DYNAMICS  
 . . . AERODYNAMICS  
 . . . AEROTHERMODYNAMICS  
 . . . HYPERSONICS  
 . . . ROTOR AERODYNAMICS  
 . . . SUPERSONICS  
 . . . UNSTEADY AERODYNAMICS  
 . . . INTERACTIONAL AERODYNAMICS  
 . . . RAREFIED GAS DYNAMICS  
 RT DALTON LAW  
 ∞ DYNAMICS  
 GAS PATH ANALYSIS  
 GASEOUS DIFFUSION  
 GASEOUS SELF-DIFFUSION  
 GASES  
 HYDRODYNAMIC EQUATIONS  
 HYDRODYNAMICS  
 JET MEMBRANE PROCESS  
 KINETICS  
 LORENTZ GAS  
 MAGNETOHYDRODYNAMICS  
 ∞ MECHANICS (PHYSICS)  
 ∞ MOLECULAR GASES  
 POLAR GASES  
 THERMODYNAMICS

## GAS EVACUATING

USE EVACUATING (VACUUM)

## GAS EXPANSION

GS EXPANSION  
 . GAS EXPANSION  
 RT JOULE-THOMSON EFFECT  
 PRESSURE REDUCTION

## GAS EXPLOSIONS

GS EXPLOSIONS  
 . CHEMICAL EXPLOSIONS  
 . GAS EXPLOSIONS  
 RT DETONABLE GAS MIXTURES  
 DETONATION WAVES  
 FLAME PROPAGATION  
 FLAMMABLE GASES  
 UNDERGROUND EXPLOSIONS

## GAS FLOW

UF GASEOUS CAVITATION  
 GS FLUID FLOW  
 . GAS FLOW  
 . . AIR FLOW  
 . . . AIR CURRENTS  
 . . . JET STREAMS (METEOROLOGY)  
 . . . MERIDIONAL FLOW  
 . . . VERTICAL AIR CURRENTS  
 . . CONTINUUM FLOW

## GAS GENERATOR ENGINES

### GAS FLOW-(CONT.)

- .. COOLING FLOWS (ASTROPHYSICS)
- .. EQUILIBRIUM FLOW
- .. FROZEN EQUILIBRIUM FLOW
- .. SHIFTING EQUILIBRIUM FLOW
- .. FREE MOLECULAR FLOW
- .. KNUDSEN FLOW
- .. MOLECULAR FLOW
- .. SLIP FLOW
- .. TRANSITION FLOW
- .. NONEQUILIBRIUM FLOW
- .. PIPE FLOW
- RT AIR DUCTS
- AIR JETS
- COMPRESSIBLE FLOW
- CRITICAL FLOW
- CROCCO-LEE THEORY
- GAS PATH ANALYSIS
- GASDYNAMIC LASERS
- GASEOUS DIFFUSION
- GASES
- GEOPHYSICAL FLUID FLOW CELLS
- HYDRAULIC ANALOGIES
- HYPERSONIC FLOW
- INCOMPRESSIBLE FLOW
- INVISCID FLOW
- JOULE-THOMSON EFFECT
- LAMINAR FLOW
- LIQUID FLOW
- MAGNETOHYDRODYNAMIC FLOW
- MASS FLOW
- MOLECULAR RELAXATION
- MOLECULAR TRAJECTORIES
- MULTIPHASE FLOW
- NONUNIFORM FLOW
- ORIFICE FLOW
- ∞ PRESSURE DROP
- RADIAL FLOW
- SINGLE-PHASE FLOW
- STEADY FLOW
- STEAM FLOW
- STREAMS
- SUBCRITICAL FLOW
- SUBSONIC FLOW
- SUPERCRITICAL FLOW
- SUPERSONIC FLOW
- SUPERSONIC JET FLOW
- TRANSONIC FLOW
- TURBULENT FLOW
- TWO PHASE FLOW
- UNIFORM FLOW
- UNSTEADY FLOW
- VAPOR JETS
- VISCOUS FLOW

### GAS GENERATOR ENGINES

- USE ENGINES
- GAS GENERATORS

### GAS GENERATORS

- UF GAS GENERATOR ENGINES
- RT CHEMICAL REACTORS
- ∞ GENERATORS
- PNEUMATIC EQUIPMENT
- PRESSURIZING
- VAPORIZERS

### GAS GUNS

- GS GAS GUNS
- .. LIGHT GAS GUNS
- RT ATMOSPHERIC ENTRY
- BALLISTICS
- ∞ GUNS
- HYPERVELOCITY GUNS
- WIND TUNNELS

### GAS HEATING

- GS HEATING
- .. GAS HEATING
- RT ARC HEATING
- KINETIC HEATING
- PLASMA HEATING
- RADIANT HEATING
- RESISTANCE HEATING
- THERMAL DIFFUSION

### GAS INJECTION

- GS INJECTION
- .. FLUID INJECTION
- .. GAS INJECTION
- RT FORMATIONS
- FUEL INJECTION
- INFLATING
- PERFORATING
- PLASMA PUMPING

### GAS INJECTION-(CONT.)

- POROSITY
- PRESSURIZING
- STIMULATION
- WATER INJECTION

### GAS IONIZATION

- GS IONIZATION
- .. GAS IONIZATION
- .. ATMOSPHERIC IONIZATION
- .. AURORAL IONIZATION
- .. FLAME IONIZATION
- RT AFTERGLOWS
- ELECTRON ATTACHMENT
- HELIUM AFTERGLOW
- IONIZED GASES
- IONIZERS
- PENNING DISCHARGE
- PENNING EFFECT
- PHOTOIONIZATION
- PLASMA DISPLAY DEVICES
- RING DISCHARGE

### GAS JETS

- GS FLUID JETS
- .. GAS JETS
- RT AIR JETS
- COLD GAS
- ∞ JETS

### GAS LIQUEFACTION

- USE CONDENSING

### GAS LUBRICANTS

- GS LUBRICANTS
- .. GAS LUBRICANTS
- RT GASEOUS DIFFUSION
- HIGH TEMPERATURE LUBRICANTS
- METAL-GAS SYSTEMS
- SOLID LUBRICANTS
- SQUEEZE FILMS

### GAS METERS

- GS MEASURING INSTRUMENTS
- .. FLOWMETERS
- .. GAS METERS
- RT FLOW MEASUREMENT
- VENTURI TUBES

### GAS MIXTURES

- GS GASES
- .. GAS MIXTURES
- .. AIR
- .. ALVEOLAR AIR
- .. COMPRESSED AIR
- .. EXPIRED AIR
- .. HIGH TEMPERATURE AIR
- .. LIQUID AIR
- .. DETONABLE GAS MIXTURES
- MIXTURES
- .. SOLUTIONS
- .. GAS MIXTURES
- .. AIR
- .. ALVEOLAR AIR
- .. COMPRESSED AIR
- .. EXPIRED AIR
- .. HIGH TEMPERATURE AIR
- .. LIQUID AIR
- .. DETONABLE GAS MIXTURES
- RT ARGON-OXYGEN ATMOSPHERES
- ∞ ATMOSPHERES
- BINARY FLUIDS
- BINARY MIXTURES
- CONTROLLED ATMOSPHERES
- EUDIOMETERS
- EXHAUST GASES
- FUEL-AIR RATIO
- FUMES
- GASEOUS ROCKET PROPELLANTS
- HELIUM-OXYGEN ATMOSPHERES
- HYDROGEN-BASED ENERGY
- IGNITION LIMITS
- LAMINAR MIXING
- LIGHTHILL GAS MODEL
- LIQUEFIED GASES
- LIQUID-GAS MIXTURES
- PREMIXED FLAMES
- PREMIXING

### GAS PATH ANALYSIS

- RT GAS DYNAMICS
- GAS FLOW

### GAS POCKETS

- RT CAVITIES

### GAS POCKETS-(CONT.)

EVACUATING (VACUUM)

### GAS PRESSURE

- GS PRESSURE
- .. GAS PRESSURE
- RT ATMOSPHERIC PRESSURE
- COMPRESSED GAS
- INTERNAL PRESSURE
- PARTIAL PRESSURE

### GAS STREAMS

- GS GASES
- .. GAS STREAMS
- STREAMS
- .. GAS STREAMS
- RT JET FLOW
- LAMINAR FLOW
- TURBULENCE
- WIND TUNNELS

### GAS TEMPERATURE

- GS TEMPERATURE
- .. GAS TEMPERATURE
- RT ATMOSPHERIC TEMPERATURE
- INLET TEMPERATURE
- IONIZED GASES
- RAREFIED GASES
- SHOCK TUBES
- SHOCK WAVES
- TEMPERATURE MEASUREMENT

### GAS TRANSPORT

- SN (ENCOMPASSES GAS
- DYNAMICS-EXCLUDES MATERIALS
- HANDLING)
- RT ENERGY TRANSFER
- GASEOUS DIFFUSION
- HEAT TRANSFER
- KINETIC THEORY
- LIGHTHILL GAS MODEL
- MAGNETOHYDRODYNAMICS
- MASS TRANSFER
- POLLUTION TRANSPORT
- TRANSPORT THEORY

### GAS TURBINE ENGINES

- GS ENGINES
- .. AIR BREATHING ENGINES
- .. GAS TURBINE ENGINES
- .. JET ENGINES
- .. RAMJET ENGINES
- .. INTEGRAL ROCKET RAMJETS
- .. LOW VOLUME RAMJET ENGINES
- .. PULSEJET ENGINES
- .. SUPERSONIC COMBUSTION
- .. RAMJET ENGINES
- .. TURBORAMJET ENGINES
- .. TURBOJET ENGINES
- .. BRISTOL-SIDDELEY OLYMPUS
- .. 593 ENGINE
- .. BRISTOL-SIDDELEY VIPER
- .. ENGINE
- .. DUCTED FAN ENGINES
- .. J-33 ENGINE
- .. J-34 ENGINE
- .. J-47 ENGINE
- .. J-57 ENGINE
- .. J-57-P-20 ENGINE
- .. J-65 ENGINE
- .. J-69-T-25 ENGINE
- .. J-71 ENGINE
- .. J-73 ENGINE
- .. J-75 ENGINE
- .. J-79 ENGINE
- .. J-85 ENGINE
- .. J-93 ENGINE
- .. RA-28 ENGINE
- .. TURBOFAN ENGINES
- .. BRISTOL-SIDDELEY BS 53
- .. ENGINE
- .. CF-700 ENGINE
- .. CONVERTIBLE FAN-SHAFT
- .. ENGINES
- .. J-97 ENGINE
- .. TF-41 ENGINE
- .. TURBOPROP ENGINES
- .. T-53 ENGINE
- .. T-56 ENGINE
- .. T-64 ENGINE
- .. T-74 ENGINE
- .. TURBORAMJET ENGINES
- .. T-58-GE-8B ENGINE
- .. INTERNAL COMBUSTION ENGINES
- .. GAS TURBINE ENGINES

**GAS TURBINE ENGINES-(CONT.)**

... HYDROGEN ENGINES  
 ... JET ENGINES  
 ... RAMJET ENGINES  
 ... INTEGRAL ROCKET RAMJETS  
 ... LOW VOLUME RAMJET ENGINES  
 ... PULSEJET ENGINES  
 ... SUPERSONIC COMBUSTION  
 ... RAMJET ENGINES  
 ... TURBORAMJET ENGINES  
 ... T-63 ENGINE  
 ... T-76 ENGINE  
 ... TURBOJET ENGINES  
 ... BRISTOL-SIDDELEY OLYMPUS  
 ... 593 ENGINE  
 ... BRISTOL-SIDDELEY VIPER  
 ... ENGINE  
 ... DUCTED FAN ENGINES  
 ... J-33 ENGINE  
 ... J-34 ENGINE  
 ... J-47 ENGINE  
 ... J-52 ENGINE  
 ... J-57 ENGINE  
 ... J-57-P-20 ENGINE  
 ... J-65 ENGINE  
 ... J-69-T-25 ENGINE  
 ... J-71 ENGINE  
 ... J-73 ENGINE  
 ... J-75 ENGINE  
 ... J-79 ENGINE  
 ... J-85 ENGINE  
 ... J-93 ENGINE  
 ... RA-28 ENGINE  
 ... TURBOFAN ENGINES  
 ... BRISTOL-SIDDELEY BS 53  
 ... ENGINE  
 ... CF-700 ENGINE  
 ... CONVERTIBLE FAN-SHAFT  
 ... ENGINES  
 ... J-97 ENGINE  
 ... TF-30 ENGINE  
 ... TF-41 ENGINE  
 ... TURBOPROP ENGINES  
 ... T-34 ENGINE  
 ... T-38 ENGINE  
 ... T-53 ENGINE  
 ... T-56 ENGINE  
 ... T-64 ENGINE  
 ... T-74 ENGINE  
 ... T-78 ENGINE  
 ... TURBORAMJET ENGINES  
 ... T-58 ENGINE  
 ... T-58-GE-8B ENGINE  
 ... TURBINE ENGINES  
**GAS TURBINE ENGINES**  
 ... JET ENGINES  
 ... RAMJET ENGINES  
 ... LOW VOLUME RAMJET ENGINES  
 ... PULSEJET ENGINES  
 ... SUPERSONIC COMBUSTION  
 ... RAMJET ENGINES  
 ... TURBORAMJET ENGINES  
 ... T-63 ENGINE  
 ... T-76 ENGINE  
 ... TURBOJET ENGINES  
 ... BRISTOL-SIDDELEY OLYMPUS  
 ... 593 ENGINE  
 ... BRISTOL-SIDDELEY VIPER  
 ... ENGINE  
 ... DUCTED FAN ENGINES  
 ... J-33 ENGINE  
 ... J-34 ENGINE  
 ... J-47 ENGINE  
 ... J-52 ENGINE  
 ... J-57 ENGINE  
 ... J-57-P-20 ENGINE  
 ... J-65 ENGINE  
 ... J-69-T-25 ENGINE  
 ... J-71 ENGINE  
 ... J-73 ENGINE  
 ... J-75 ENGINE  
 ... J-79 ENGINE  
 ... J-85 ENGINE  
 ... J-93 ENGINE  
 ... RA-28 ENGINE  
 ... TURBOFAN ENGINES  
 ... BRISTOL-SIDDELEY BS 53  
 ... ENGINE  
 ... CF-700 ENGINE  
 ... CONVERTIBLE FAN-SHAFT  
 ... ENGINES  
 ... J-97 ENGINE  
 ... TF-30 ENGINE  
 ... TF-41 ENGINE  
 ... TURBOPROP ENGINES  
 ... T-34 ENGINE

**GAS TURBINE ENGINES-(CONT.)**

... T-38 ENGINE  
 ... T-53 ENGINE  
 ... T-56 ENGINE  
 ... T-64 ENGINE  
 ... T-74 ENGINE  
 ... T-78 ENGINE  
 ... TURBORAMJET ENGINES  
 ... T-58 ENGINE  
 ... T-58-GE-8B ENGINE  
 ... AIRCRAFT ENGINES  
 ... AXIAL FLOW TURBINES  
 ... BRAYTON CYCLE  
 ... EXTERNAL COMBUSTION ENGINES  
 ... FLAMEOUT  
 ... STEAM TURBINES  
 ... SUPERSONIC TURBINES  
 ... TURBOGENERATORS  
 ... TWO STAGE TURBINES

**GAS TURBINES**

GS TURBOMACHINERY  
 . TURBINES  
 . **GAS TURBINES**  
 RT AXIAL FLOW TURBINES  
 BRAYTON CYCLE  
 CLOSED CYCLES  
 COMBINED CYCLE POWER GENERATION  
 INTERNAL COMBUSTION ENGINES  
 SPRAY INGESTION  
 STEAM TURBINES  
 SUPERSONIC TURBINES  
 TURBOGENERATORS  
 TWO STAGE TURBINES

**GAS VALVES**

GS PNEUMATIC EQUIPMENT  
 . **GAS VALVES**  
 VALVES  
 . **GAS VALVES**  
 RT AUTOMATIC CONTROL VALVES  
 COCKS  
 DAMPERS (VALVES)  
 FUEL VALVES  
 RELIEF VALVES

**GAS VISCOSITY**

GS TRANSPORT PROPERTIES  
 . VISCOSITY  
 . **GAS VISCOSITY**  
 RT GASEOUS DIFFUSION  
 LENNARD-JONES GAS

**GAS-LIQUID INTERACTIONS**

GS **GAS-LIQUID INTERACTIONS**  
 . AIR WATER INTERACTIONS  
 . AIR SEA ICE INTERACTIONS  
 RT CONDENSING  
 ENERGY TRANSFER  
 EVAPORATION  
 GASEOUS DIFFUSION  
 HEAT TRANSFER  
 ∞ INTERACTIONS  
 INTERFACIAL TENSION  
 MASS TRANSFER  
 MOMENTUM TRANSFER  
 NONCONDENSABLE GASES  
 SURFACE REACTIONS

**GAS-METAL INTERACTIONS**

GS FLUID-SOLID INTERACTIONS  
 . GAS-SOLID INTERACTIONS  
 . **GAS-METAL INTERACTIONS**  
 RT ABLATION  
 ADSORPTION  
 CHEMICAL REACTIONS  
 CHEMISORPTION  
 ∞ CONDENSATION  
 CONDENSING  
 CORROSION  
 DIFFUSION  
 EVAPORATION  
 EXHAUST EMISSION  
 FLAME PROPAGATION  
 GAS WELDING  
 GASEOUS DIFFUSION  
 HOT CORROSION  
 HYDROGEN EMBRITTLEMENT  
 ∞ INTERACTIONS  
 METAL COMBUSTION  
 METAL VAPORS  
 METAL-GAS SYSTEMS  
 OCCLUSION  
 SOLID PHASES  
 SUBLIMATION

**GAS-METAL INTERACTIONS-(CONT.)**

SULFIDATION  
 VAPOR PHASES

**GASEOUS CAVITATION**

USE CAVITATION FLOW  
 GAS FLOW

**GASEOUS FUELS**

GS FUELS  
 . **GASEOUS FUELS**  
 . NATURAL GAS  
 GASES  
 . FLAMMABLE GASES  
 . **GASEOUS FUELS**  
 RT LIGNITE  
 LIQUID FUELS

**GASEOUS ROCKET PROPELLANTS**

GS PROPELLANTS  
 . ROCKET PROPELLANTS  
 . **GASEOUS ROCKET PROPELLANTS**  
 RT CRYOGENIC ROCKET PROPELLANTS  
 ENDOTHERMIC FUELS  
 GAS MIXTURES  
 HIGH ENERGY PROPELLANTS  
 HYBRID PROPELLANTS  
 HYDROGEN FUELS  
 LIQUID ROCKET PROPELLANTS  
 MAN OPERATED PROPULSION SYSTEMS  
 MONOPROPELLANTS  
 STORABLE PROPELLANTS

**GASOLIN (FUEL)**

GS FUELS  
 . CHEMICAL FUELS  
 . SYNTHETIC FUELS  
 . **GASOLIN (FUEL)**  
 RT ALCOHOLS  
 GASOLINE

**GASOLINE**

GS FUELS  
 . CHEMICAL FUELS  
 . HYDROCARBON FUELS  
 . **GASOLINE**  
 . LIQUID FUELS  
 . **GASOLINE**  
 PRODUCTS  
 . PETROLEUM PRODUCTS  
 . **GASOLINE**  
 RT ANTIKNOCK ADDITIVES  
 AUTOMOBILE FUELS  
 DIESEL FUELS  
 GASOLIN (FUEL)  
 JET ENGINE FUELS  
 KEROGEN  
 KEROSENE  
 OCTANE NUMBER  
 SHALE OIL  
 SOLVENT REFINED COAL

**GATES**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)*  
 RT CLOSURES  
 GATES (CIRCUITS)  
 GATES (OPENINGS)

**GAUDEMETERS**

USE MAGNETOMETERS

**GAW-1 AIRFOIL**

UF GENERAL AVIATION WHITCOMB AIRFOIL  
 GS AIRFOILS  
 . WINGS  
 . **GAW-1 AIRFOIL**  
 RT ATLIT PROJECT  
 PA-34 SENECA AIRCRAFT  
 WING PROFILES

**GAW-2 AIRFOIL**

UF GENERAL AVIATION WHITCOMB AIRFOIL  
 GS AIRFOILS  
 . WINGS  
 . **GAW-2 AIRFOIL**  
 RT BODY-WING CONFIGURATIONS  
 FLAPS (CONTROL SURFACES)  
 GENERAL AVIATION AIRCRAFT  
 WING PROFILES

**GC-130 AIRCRAFT**

USE C-130 AIRCRAFT

## GENERAL AVIATION AIRCRAFT

### GENERAL AVIATION AIRCRAFT

- UF EXECUTIVE AIRCRAFT
- PRIVATE AIRCRAFT
- GS **GENERAL AVIATION AIRCRAFT**
  - . AGRICULTURAL AIRCRAFT
  - . BEECHCRAFT 18 AIRCRAFT
  - . C-33 AIRCRAFT
  - . C-35 AIRCRAFT
  - . CESSNA 172 AIRCRAFT
  - . CESSNA 205 AIRCRAFT
  - . CESSNA 210 AIRCRAFT
  - . CESSNA 402B AIRCRAFT
  - . CL-600 CHALLENGER AIRCRAFT
  - . DH 125 AIRCRAFT
  - . DHC 2 AIRCRAFT
  - . DO-27 AIRCRAFT
  - . DO-28 AIRCRAFT
  - . G-1 AIRCRAFT
  - . HC-3 HELICOPTER
  - . YAK 40 AIRCRAFT
- RT ∞ AERONAUTICS
- AIR TRANSPORTATION
- ∞ AIRCRAFT
- CIVIL AVIATION
- COMMERCIAL AIRCRAFT
- COMMUTER AIRCRAFT
- GAW-2 AIRFOIL
- HELICOPTERS
- JET AIRCRAFT
- LIGHT AIRCRAFT
- ∞ LOW WING AIRCRAFT
- PASSENGER AIRCRAFT
- PIPER AIRCRAFT
- SINGLE ENGINE AIRCRAFT
- ∞ SUBSONIC AIRCRAFT
- TRAINING AIRCRAFT
- TRANSPORT AIRCRAFT
- TURBOPROP AIRCRAFT
- UTILITY AIRCRAFT

### GENERAL AVIATION WHITCOMB AIRFOIL

- USE GAW-1 AIRFOIL
- GAW-2 AIRFOIL

### GENERAL DYNAMICS AIRCRAFT

- UF CONVAIR MILITARY AIRCRAFT
- GENERAL DYNAMICS MILITARY AIRCRAFT
- GS **GENERAL DYNAMICS AIRCRAFT**
  - . B-58 AIRCRAFT
  - . C-131 AIRCRAFT
  - . CL-41 AIRCRAFT
  - . CL-44 AIRCRAFT
  - . CL-84 AIRCRAFT
  - . CV-340 AIRCRAFT
  - . CV-440 AIRCRAFT
  - . CV-880 AIRCRAFT
  - . CV-990 AIRCRAFT
  - . F-102 AIRCRAFT
  - . F-106 AIRCRAFT
  - . F-111 AIRCRAFT
- RT ∞ AIRCRAFT
- CANADAIR AIRCRAFT
- PA-34 SENECA AIRCRAFT

### GENERAL DYNAMICS MILITARY AIRCRAFT

- USE GENERAL DYNAMICS AIRCRAFT
- MILITARY AIRCRAFT

### GENIE ROCKET VEHICLE

- UF MB-1 ROCKET VEHICLE
- GS ROCKET VEHICLES
  - . SINGLE STAGE ROCKET VEHICLES
  - . **GENIE ROCKET VEHICLE**
- RT ASTROBEE ROCKET VEHICLES
- SOLID PROPELLANT ROCKET ENGINES

### GEOFABRICS

- USE GEOTECHNICAL FABRICS

### GEOMAGNETIC EQUATOR

- USE MAGNETIC EQUATOR

### GEOMETRICAL ACOUSTICS

- UF RAY ACOUSTICS
- GS ACOUSTICS
  - . **GEOMETRICAL ACOUSTICS**
- RT GEOMETRICAL THEORY OF DIFFRACTION
- GEOMETRY
- WAVE PROPAGATION

### GEOMETRICAL HYDROMAGNETICS

- USE MAGNETOHYDRODYNAMICS

### GEOTECHNICAL FABRICS

- UF GEOFABRICS
- GEOTEXTILES
- RT FABRICS
- SOIL MECHANICS

### GEOTEXTILES

- USE GEOTECHNICAL FABRICS

### GET AWAY SPECIALS (STS)

- GS PAYLOADS
  - . SPACE SHUTTLE PAYLOADS
  - . **GET AWAY SPECIALS (STS)**
- RT OSS-1 PAYLOAD
- SPACE SHUTTLE MISSIONS
- SPACEBORNE EXPERIMENTS
- SPACELAB
- SPACELAB PAYLOADS

### GETOL AIRCRAFT

- GS GROUND EFFECT MACHINES
  - . **GETOL AIRCRAFT**
- RT ∞ AIRCRAFT
- ∞ SUBSONIC AIRCRAFT
- VERTICAL TAKEOFF AIRCRAFT

### GIMBALLESS INERTIAL NAVIGATION

- GS NAVIGATION
  - . INERTIAL NAVIGATION
  - . **GIMBALLESS INERTIAL NAVIGATION**
- RT GYROSCOPES
- INERTIAL PLATFORMS
- NAVIGATION INSTRUMENTS

### GIMBALS

- RT BEARINGS
- CONTROL MOMENT GYROSCOPES
- FLUID ROTOR GYROSCOPES
- GYRODAMPERS
- GYROSCOPES
- PIVOTS
- STABILIZED PLATFORMS
- SUPPORTS
- SWIVELS

### GLAUERT COEFFICIENT

- USE AERODYNAMIC FORCES
- MACH NUMBER

### GLIDE ANGLES

- USE GLIDE PATHS

### GLIDE LANDINGS

- GS LANDING
  - . **GLIDE LANDINGS**
  - . HORIZONTAL SPACECRAFT LANDING
- RT AIRCRAFT LANDING
- CRASH LANDING
- DITCHING (LANDING)
- PLANETARY LANDING
- SOFT LANDING
- SPACECRAFT LANDING
- WATER LANDING

### GLIDE PATHS

- UF GLIDE ANGLES
- GLIDE SLOPES
- GS FLIGHT PATHS
  - . **GLIDE PATHS**
  - . SLOPES
  - . **GLIDE PATHS**
- RT AIRCRAFT APPROACH SPACING
- APPROACH CONTROL
- APPROACH INDICATORS
- GLIDING
- INSTRUMENT APPROACH
- INSTRUMENT LANDING SYSTEMS
- TERMINAL GUIDANCE

### GLIDE SLOPES

- USE GLIDE PATHS

### GLIDERS

- UF SAILPLANES
- GS **GLIDERS**
  - . ASSET GLIDERS
  - . BOOSTGLIDE VEHICLES
  - . X-20 AIRCRAFT
  - . HANG GLIDERS
  - . HL-10 REENTRY VEHICLE
  - . HYPERSONIC GLIDERS
  - . X-20 AIRCRAFT
  - . JANUS SPACECRAFT
  - . KA-6 SAILPLANES

### GLIDERS-(CONT.)

- . PARAGLIDERS
- . INFLATABLE GLIDERS
- RT AEROSPACE PLANES
- ∞ AIRCRAFT
  - . FLEXIBLE WINGS
  - . FREE FLIGHT
  - . GLIDING
  - . LIFTING REENTRY VEHICLES
- ∞ MILITARY AIRCRAFT
  - . MONOPLANES
  - . OBSERVATION AIRCRAFT
  - . SAILS
  - . SAILWINGS
  - . SCHLEICHER AIRCRAFT
  - . SOARING
- ∞ SUBSONIC AIRCRAFT
- TOWED BODIES
- ∞ WINGED VEHICLES

### GLIDING

- RT BOOSTGLIDE VEHICLES
- DESCENT
- ∞ FLIGHT
  - . FLIGHT PATHS
  - . FREE FLIGHT
  - . GLIDE PATHS
- GLIDERS
- KA-6 SAILPLANES
- LIFT
- ∞ MOTION
- SOARING

### GLIMM METHOD

- GS ANALYSIS (MATHEMATICS)
  - . NUMERICAL ANALYSIS
  - . **GLIMM METHOD**
- PROCEDURES
- . **GLIMM METHOD**
- RT ∞ EQUATIONS
- FLUID DYNAMICS
- ∞ METHODOLOGY

### GLOBAL POSITIONING SYSTEM

- RT AUTONOMOUS SPACECRAFT CLOCKS
- FLIGHT PATHS
- NAVIGATION
- POSITION INDICATORS
- POSITIONING
- SATELLITE NAVIGATION SYSTEMS
- SPACE NAVIGATION
- ∞ SYSTEMS

### GLOBAL WARMING

- GS HEATING
  - . ATMOSPHERIC HEATING
  - . **GLOBAL WARMING**
- RT ATMOSPHERIC TEMPERATURE
- CLIMATE CHANGE
- GLOBAL AIR POLLUTION
- GREENHOUSE EFFECT
- STRATOSPHERIC WARMING

### GLOBULES

- RT FALLING SPHERES
- INTERFACIAL TENSION
- LIQUIDS
- MICROBALLOONS
- SPHERES

### GLOSTER GA-5 AIRCRAFT

- USE GA-5 AIRCRAFT

### GONDOLAS

- RT AIRCRAFT COMPARTMENTS
- AIRSHIPS
- BALLOONS
- BASKETS

### GORES

- RT FABRICS
- PARACHUTE FABRICS

### GOSS (SUPPORT SYSTEM)

- USE GROUND OPERATIONAL SUPPORT SYSTEM

### GOVERNORS

- USE SPEED REGULATORS

### ∞ GRADE

- SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)



**GRADE-(CONT.)**

RT ANGLES (GEOMETRY)  
 GRADIENTS  
 LEVEL (HORIZONTAL)  
 POSITION (TITLE)  
 QUALITY  
 SLOPES

**GRADUATION**

USE CALIBRATING

**GRAEFF CALCULUS**

GS ANALYSIS (MATHEMATICS)  
 . CALCULUS  
 . GRAEFF CALCULUS  
 . NUMERICAL ANALYSIS  
 . GRAEFF CALCULUS

**GRASHOF NUMBER**

GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . GRASHOF NUMBER  
 RT CONVECTION  
 PRANDTL NUMBER  
 REYNOLDS NUMBER

**GRAVITY WAVES**

GS ELASTIC WAVES  
 . CAPILLARY WAVES  
 . GRAVITY WAVES  
 . . BAROCLINIC WAVES  
 SURFACE WAVES  
 . CAPILLARY WAVES  
 . GRAVITY WAVES  
 . . BAROCLINIC WAVES  
 RT CNOIDAL WAVES  
 GRAVITATIONAL WAVES  
 PLANETARY WAVES  
 RIPPLES  
 WATER WAVES  
 WIND (METEOROLOGY)

**GRID GENERATION (MATHEMATICS)**

UF MESH GENERATION (MATHEMATICS)  
 RT COMPUTATIONAL FLUID DYNAMICS  
 COMPUTATIONAL GRIDS  
 COORDINATES  
 FINITE DIFFERENCE THEORY  
 FINITE ELEMENT METHOD  
 MULTIGRID METHODS

**GRIDS (MATHEMATICS)**

USE COMPUTATIONAL GRIDS

**GRIFFON AIRCRAFT**

USE NORD 1500 AIRCRAFT

**GROUND BASED CONTROL**

GS GROUND BASED CONTROL  
 . AIR TRAFFIC CONTROL  
 . . AUTOMATED EN ROUTE ATC  
 . . RADAR APPROACH CONTROL  
 RT AIR TRAFFIC CONTROLLERS  
 (PERSONNEL)  
 AIRCRAFT APPROACH SPACING  
 AIRCRAFT CONTROL  
 AIRPORT SURFACE DETECTION  
 EQUIPMENT  
 AIRPORT TOWERS  
 APPROACH  
 APPROACH CONTROL  
 AUTOMATIC CONTROL  
 AUTOMATIC TRAFFIC ADVISORY AND  
 RESOLUTION  
 ∞ CONTROL  
 FLIGHT CONTROL  
 FLIGHT MANAGEMENT SYSTEMS  
 FLY BY WIRE CONTROL  
 GUIDANCE (MOTION)  
 INSTRUMENT LANDING SYSTEMS  
 INTEGRATED MISSION CONTROL  
 CENTER  
 LANDING AIDS  
 MISSILE CONTROL  
 RADAR NAVIGATION  
 RADIO CONTROL  
 REMOTE CONTROL  
 SPACECRAFT CONTROL  
 SPACECRAFT GUIDANCE  
 TRAFFIC CONTROL

**GROUND CREWS**

GS PERSONNEL  
 . GROUND CREWS

**GROUND CREWS-(CONT.)**

RT MAINTENANCE

**GROUND EFFECT (AERODYNAMICS)**

RT AERODYNAMIC DRAG  
 AERODYNAMICS  
 AIR CUSHION LANDING SYSTEMS  
 CUSHIONS  
 DOWNWASH  
 DRAG  
 ∞ EFFECTS  
 GROUND RESONANCE  
 JET BLAST EFFECTS  
 LIFT  
 PERIPHERAL JET FLOW  
 WAKES

**GROUND EFFECT MACHINES**

UF AIR CUSHION VEHICLES  
 DTMB-111 GROUND EFFECT MACHINE  
 DTMB-430 GROUND EFFECT MACHINE  
 HOVERCRAFT  
 GS GROUND EFFECT MACHINES  
 . CUSHIONCRAFT GROUND EFFECT  
 MACHINE  
 . GETOL AIRCRAFT  
 . HOVERCRAFT GROUND EFFECT  
 MACHINES  
 . WESTLAND GROUND EFFECT  
 MACHINES  
 RT ∞ AIRCRAFT  
 COMMERCIAL AIRCRAFT  
 ∞ EFFECTS  
 ∞ FLIGHT VEHICLES  
 FLYING PLATFORMS  
 HOVERING  
 LIFTING ROTORS  
 ∞ MACHINERY  
 ∞ MILITARY AIRCRAFT  
 PASSENGER AIRCRAFT  
 PERIPHERAL JET FLOW  
 RAPID TRANSIT SYSTEMS  
 RESEARCH AIRCRAFT  
 ∞ SUBSONIC AIRCRAFT  
 SURFACE VEHICLES  
 ∞ TRANSPORT VEHICLES  
 V/STOL AIRCRAFT  
 ∞ VEHICLES  
 WATER TAKEOFF AND LANDING  
 AIRCRAFT

**GROUND HANDLING**

GS MATERIALS HANDLING  
 . GROUND HANDLING  
 RT AIR CARGO  
 BAGGAGE  
 CREW PROCEDURES (PREFLIGHT)  
 ∞ FACILITIES  
 FLIGHT OPERATIONS  
 HANGARS  
 MOBILE LOUNGES  
 TRACTORS  
 TRUCKS

**GROUND OPERATIONAL SUPPORT SYSTEM**

UF GOSS (SUPPORT SYSTEM)  
 GS GROUND SUPPORT EQUIPMENT  
 . GROUND OPERATIONAL SUPPORT  
 SYSTEM  
 SUPPORT SYSTEMS  
 . GROUND OPERATIONAL SUPPORT  
 SYSTEM  
 WEAPON SYSTEMS  
 . GROUND OPERATIONAL SUPPORT  
 SYSTEM  
 RT ∞ SYSTEMS

**GROUND RESONANCE**

RT AERODYNAMIC STABILITY  
 GROUND EFFECT (AERODYNAMICS)  
 HELICOPTERS  
 ROTARY WINGS  
 ROTOR AERODYNAMICS

**GROUND SPEED**

GS RATES (PER TIME)  
 . GROUND SPEED  
 VELOCITY  
 . GROUND SPEED  
 RT AIRSPEED  
 HIGH SPEED  
 LOW SPEED

**GROUND STATIONS**

GS STATIONS

**GROUND STATIONS-(CONT.)**

. GROUND STATIONS  
 . . DEEP SPACE INSTRUMENTATION  
 FACILITY  
 . . EARTH TERMINALS  
 . . INTEGRATED MISSION CONTROL  
 CENTER  
 . . POLYSTATION DOPPLER TRACKING  
 SYSTEM  
 . . SPACE DETECTION AND TRACKING  
 SYSTEM  
 . . STDN (NETWORK)  
 RT DATA ACQUISITION  
 DATA COLLECTION PLATFORMS  
 DOWNLINKING  
 GLOBAL TRACKING NETWORK  
 HANGARS  
 INTEGRATED GLOBAL OCEAN STATION  
 SYSTEMS  
 JODRELL BANK OBSERVATORY  
 LAND MOBILE SATELLITE SERVICE  
 MSAT  
 OCEAN DATA ACQUISITIONS SYSTEMS  
 POLLUTION MONITORING  
 SPACE FLIGHT TRACKING AND DATA  
 NETWORK  
 TRACKING STATIONS  
 WEATHER STATIONS

**GROUND SUPPORT EQUIPMENT**

GS GROUND SUPPORT EQUIPMENT  
 . GROUND OPERATIONAL SUPPORT  
 SYSTEM  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT MAINTENANCE  
 AIRPORT PLANNING  
 AUXILIARY POWER SOURCES  
 BALLISTIC CAMERAS  
 CAPE KENNEDY LAUNCH COMPLEX  
 COMMAND AND CONTROL  
 COMMAND GUIDANCE  
 CRAWLER TRACTORS  
 EARTH TERMINAL MEASUREMENT  
 SYSTEM  
 ∞ EQUIPMENT  
 FLIGHT CONTROL  
 GANTRY CRANES  
 HANDLING EQUIPMENT  
 LANDING AIDS  
 LAUNCHING BASES  
 LAUNCHING PADS  
 LAUNCHING SITES  
 MAINTENANCE  
 MISSILE LAUNCHERS  
 MISSILE STORAGE  
 MISSILES  
 ORDNANCE  
 PROPELLANT STORAGE  
 RADIO TELEMETRY  
 REFUELING  
 ROCKET LAUNCHERS  
 SATELLITE GROUND SUPPORT  
 ∞ SPACECRAFT  
 STORABLE PROPELLANTS  
 ∞ TEST EQUIPMENT  
 TRACKING NETWORKS  
 TRACKING STATIONS

**GROUND SUPPORT SYSTEMS**

GS SUPPORT SYSTEMS  
 . GROUND SUPPORT SYSTEMS  
 RT COMMONALITY  
 ∞ SYSTEMS

**GROUND TESTS**

GS GROUND TESTS  
 . COLD FLOW TESTS  
 . PRELAUNCH TESTS  
 . . STATIC FIRING  
 RT AIRCRAFT RUNUP  
 CAPTIVE TESTS  
 CREW PROCEDURES (PREFLIGHT)  
 ELECTRIC EQUIPMENT TESTS  
 ENGINE TESTS  
 FLIGHT TESTS  
 FULL SCALE TESTS  
 MISSILE TESTS  
 PREFIRING TESTS  
 PREFLIGHT OPERATIONS  
 SPACE ELECTRIC ROCKET TESTS  
 STABILITY TESTS  
 STATIC TESTS  
 TEST FIRING  
 ∞ TESTS  
 WING FLOW METHOD TESTS

## GROUND WIND

### GROUND WIND

GS WIND (METEOROLOGY)  
 . GROUND WIND  
 RT AIR CURRENTS  
 ATMOSPHERIC CIRCULATION  
 CYCLONES  
 GUST LOADS  
 GUSTS  
 MONSOONS  
 SQUALLS  
 STORMS (METEOROLOGY)  
 TORNADOES  
 WIND DIRECTION  
 WIND EFFECTS  
 WIND EROSION  
 WIND PRESSURE  
 WIND PROFILES  
 WIND SHEAR  
 WIND VELOCITY  
 WINDMILLS (WINDPOWERED MACHINES)  
 WINDPOWER UTILIZATION  
 WINDPOWERED GENERATORS

### GROUND-AIR-GROUND COMMUNICATION

GS COMMUNICATING  
 . GROUND-AIR-GROUND COMMUNICATION  
 TELECOMMUNICATION  
 . GROUND-AIR-GROUND COMMUNICATION  
 RT AERONAUTICAL SATELLITES  
 AIR TRAFFIC CONTROL  
 AIRCRAFT COMMUNICATION  
 AUTOMATED EN ROUTE ATC  
 COMMUNICATION SATELLITES  
 DISCRETE ADDRESS BEACON SYSTEM  
 OPTICAL COMMUNICATION  
 RADIO COMMUNICATION  
 SATELLITE COMMUNICATION  
 SPACECRAFT COMMUNICATION  
 VOICE COMMUNICATION

### GROUND-TO-AIR MISSILES

USE SURFACE TO AIR MISSILES

### GRUMMAN AIRCRAFT

GS GRUMMAN AIRCRAFT  
 . A-6 AIRCRAFT  
 . C-1A AIRCRAFT  
 . C-2 AIRCRAFT  
 . E-2 AIRCRAFT  
 . F-9 AIRCRAFT  
 . F-14 AIRCRAFT  
 . F-111 AIRCRAFT  
 . JETSTREAM AIRCRAFT  
 . OV-1 AIRCRAFT  
 RT ∞ AIRCRAFT  
 AWACS AIRCRAFT

### GRUMMAN OV-1C AIRCRAFT

USE OV-1 AIRCRAFT

### GUIDANCE (MOTION)

GS GUIDANCE (MOTION)  
 . AIRCRAFT GUIDANCE  
 . BEAM RIDER GUIDANCE  
 . COMMAND GUIDANCE  
 . ENTRY GUIDANCE (STS)  
 . INERTIAL GUIDANCE  
 . STRAPDOWN INERTIAL GUIDANCE  
 . INJECTION GUIDANCE  
 . MAP MATCHING GUIDANCE  
 . MIDCOURSE GUIDANCE  
 . REENTRY GUIDANCE  
 . RENDEZVOUS GUIDANCE  
 . SPACECRAFT GUIDANCE  
 . SATELLITE GUIDANCE  
 . STANDARDIZED SPACE GUIDANCE  
 . TERMINAL GUIDANCE  
 . LASER GUIDANCE  
 RT AIR NAVIGATION  
 APPROACH  
 ASCENT TRAJECTORIES  
 ASTRIONICS  
 AUTOMATIC CONTROL  
 AVIONICS  
 CONTROL SURFACES  
 FLIGHT CONTROL  
 FLIGHT PATHS  
 GROUND BASED CONTROL  
 HOMING  
 HOMING DEVICES  
 IMPACT PREDICTION  
 LANDING  
 MANUAL CONTROL

### GUIDANCE (MOTION)-(CONT.)

MISSILES  
 NAVIGATION  
 ∞ PLATFORMS  
 POINTING CONTROL SYSTEMS  
 RADIO NAVIGATION  
 REMOTE CONTROL  
 STATIONKEEPING  
 ∞ SYSTEMS  
 TRAJECTORY CONTROL  
 VISUAL CONTROL

### GUIDE VANES

UF JETAVATORS  
 GS CONTROL SURFACES  
 . GUIDE VANES  
 . JET VANES  
 VANES  
 . GUIDE VANES  
 . JET VANES  
 RT AIRFOILS  
 HYDROFOILS  
 THRUST VECTOR CONTROL

### GUST ALLEVIATORS

RT DEFLECTORS  
 GUSTS  
 MISSION ADAPTIVE WINGS  
 SPOILERS  
 TURBULENT FLOW  
 VORTEX ALLEVIATION

### GUST LOADS

GS AERODYNAMIC FORCES  
 . AERODYNAMIC LOADS  
 . GUST LOADS  
 LOADS (FORCES)  
 . DYNAMIC LOADS  
 . AERODYNAMIC LOADS  
 . . . GUST LOADS  
 . . . TRANSIENT LOADS  
 . . . GUST LOADS  
 . . . RANDOM LOADS  
 . . . GUST LOADS  
 RT ATMOSPHERIC TURBULENCE  
 BLAST LOADS  
 GROUND WIND  
 GUSTS  
 STRUCTURAL DESIGN CRITERIA  
 WIND PRESSURE  
 WING LOADING

### GYRO HORIZONS

GS DISPLAY DEVICES  
 . GYRO HORIZONS  
 FLIGHT INSTRUMENTS  
 . ATTITUDE INDICATORS  
 . GYRO HORIZONS  
 GYROSCOPES  
 . ATTITUDE GYROS  
 . . GYRO HORIZONS  
 MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . ATTITUDE INDICATORS  
 . . . GYRO HORIZONS  
 NAVIGATION AIDS  
 . NAVIGATION INSTRUMENTS  
 . . ATTITUDE INDICATORS  
 . . . GYRO HORIZONS  
 RT HORIZON

### GYROCOMPASSES

GS GYROSCOPES  
 . GYROCOMPASSES  
 MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . COMPASSES  
 . . . GYROCOMPASSES  
 NAVIGATION AIDS  
 . NAVIGATION INSTRUMENTS  
 . . COMPASSES  
 . . . GYROCOMPASSES  
 RT MAGNETIC COMPASSES  
 RADIO DIRECTION FINDERS  
 SOLAR COMPASSES

### GYRODYNE AIRCRAFT

GS GYRODYNE AIRCRAFT  
 . QH-50 HELICOPTER  
 RT ∞ AIRCRAFT

### GYRODYNE DSN-3 HELICOPTER

USE QH-50 HELICOPTER

### GYRODYNE MILITARY AIRCRAFT

USE QH-50 HELICOPTER

### GYROPLANES

USE HELICOPTERS

### GYROS

USE GYROSCOPES

### GYROSCOPE FLUIDS

RT DAMPING  
 ∞ FLUIDS  
 ROTARY GYROSCOPES  
 SUSPENDING (HANGING)

### GYROSCOPES

UF GYROS  
 GYROSCOPIC DRIFT  
 GYROSTATS  
 GS GYROSCOPES  
 . ATTITUDE GYROS  
 . . GYRO HORIZONS  
 . CONTROL MOMENT GYROSCOPES  
 . CRYOGENIC GYROSCOPES  
 . ELECTROSTATIC GYROSCOPES  
 . GYROCOMPASSES  
 . GYROSCOPIC PENDULUMS  
 . GYROSTABILIZERS  
 . LASER GYROSCOPES  
 . NUCLEAR GYROSCOPES  
 . OPTICAL GYROSCOPES  
 . ROTARY GYROSCOPES  
 . . FLUID ROTOR GYROSCOPES  
 . . TUNING FORK GYROSCOPES  
 RT AUTOMATIC PILOTS  
 GIMBALLS  
 GRAVITY PROBE B  
 GYROSCOPIC STABILITY  
 PRECESSION  
 ∞ STABILIZERS  
 TORQUERS

### GYROSCOPIC DRIFT

USE GYROSCOPES  
 GYROSCOPIC STABILITY

### GYROSCOPIC PENDULUMS

UF PENDULOUS GYROSCOPES  
 GS GYROSCOPES  
 . GYROSCOPIC PENDULUMS  
 OSCILLATORS  
 . MECHANICAL OSCILLATORS  
 . . PENDULUMS  
 . . . GYROSCOPIC PENDULUMS  
 RT ACCELEROMETERS  
 DAMPING  
 SCHULER TUNING

### GYROSCOPIC STABILITY

UF GYROSCOPIC DRIFT  
 GS DYNAMIC CHARACTERISTICS  
 . DYNAMIC STABILITY  
 . . MOTION STABILITY  
 . . . ATTITUDE STABILITY  
 . . . . DIRECTIONAL STABILITY  
 . . . . . GYROSCOPIC STABILITY  
 . . . . . ROTARY STABILITY  
 . . . . . GYROSCOPIC STABILITY  
 STABILITY  
 . DYNAMIC STABILITY  
 . . MOTION STABILITY  
 . . . ATTITUDE STABILITY  
 . . . . DIRECTIONAL STABILITY  
 . . . . . GYROSCOPIC STABILITY  
 . . . . . ROTARY STABILITY  
 . . . . . GYROSCOPIC STABILITY  
 RT DAMPING  
 GYRODAMPERS  
 GYROSCOPES  
 HOVERING STABILITY  
 INERTIAL PLATFORMS  
 PRECESSION  
 ROTARY GYROSCOPES  
 SCHULER TUNING  
 SEA KEEPING  
 STABILIZED PLATFORMS  
 STABLE OSCILLATIONS  
 YO-YO DEVICES

### GYROSTABILIZERS

GS GYROSCOPES  
 . GYROSTABILIZERS  
 RT NAVIGATION AIDS  
 SEA KEEPING

**GYROSTABILIZERS-(CONT.)**  
 STABILIZED PLATFORMS  
 THRUST VECTOR CONTROL

**GYROSTATS**  
 USE GYROSCOPES

## H

**H-13 HELICOPTER**  
 USE OH-13 HELICOPTER

**H-17 HELICOPTER**  
 UF FLYING CRANE HELICOPTER  
 GS HUGHES AIRCRAFT  
 . H-17 HELICOPTER  
 . JET AIRCRAFT  
 . H-17 HELICOPTER  
 . RESEARCH AIRCRAFT  
 . H-17 HELICOPTER  
 . V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . H-17 HELICOPTER  
 RT  $\infty$  AIRCRAFT

**H-19 HELICOPTER**  
 GS PASSENGER AIRCRAFT  
 . H-19 HELICOPTER  
 . SIKORSKY AIRCRAFT  
 . H-19 HELICOPTER  
 . TRANSPORT AIRCRAFT  
 . H-19 HELICOPTER  
 . V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . H-19 HELICOPTER  
 RT  $\infty$  AIRCRAFT

**H-21 HELICOPTER**  
 USE CH-21 HELICOPTER

**H-23 HELICOPTER**  
 USE OH-23 HELICOPTER

**H-25 HELICOPTER**  
 GS BOEING AIRCRAFT  
 . H-25 HELICOPTER  
 . V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . TANDEM ROTOR HELICOPTERS  
 . . . . H-25 HELICOPTER  
 RT ANTISUBMARINE WARFARE AIRCRAFT

**H-34 HELICOPTER**  
 USE CH-34 HELICOPTER

**H-43 HELICOPTER**  
 GS KAMAN AIRCRAFT  
 . H-43 HELICOPTER  
 . V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . H-43 HELICOPTER  
 RT  $\infty$  AIRCRAFT

**H-51 HELICOPTER**  
 USE XH-51 HELICOPTER

**H-53 HELICOPTER**  
 UF CH-53 HELICOPTER  
 HHX HELICOPTER  
 SIKORSKY S-65 HELICOPTER  
 GS PASSENGER AIRCRAFT  
 . H-53 HELICOPTER  
 . SIKORSKY AIRCRAFT  
 . H-53 HELICOPTER  
 . TRANSPORT AIRCRAFT  
 . H-53 HELICOPTER  
 . V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . H-53 HELICOPTER  
 RT  $\infty$  AIRCRAFT

**H-54 HELICOPTER**  
 GS V/STOL AIRCRAFT

**H-54 HELICOPTER-(CONT.)**  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . H-54 HELICOPTER  
 RT  $\infty$  AIRCRAFT

**H-56 HELICOPTER**  
 GS PASSENGER AIRCRAFT  
 . H-56 HELICOPTER  
 . SIKORSKY AIRCRAFT  
 . H-56 HELICOPTER  
 . TRANSPORT AIRCRAFT  
 . H-56 HELICOPTER  
 . V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . H-56 HELICOPTER  
 RT  $\infty$  AIRCRAFT  
 HELICOPTERS

**H-60 HELICOPTER**  
 UF BLACK HAWK ASSAULT HELICOPTER  
 GS SIKORSKY AIRCRAFT  
 . H-60 HELICOPTER  
 . V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . H-60 HELICOPTER  
 RT  $\infty$  AIRCRAFT  
 $\infty$  MILITARY AIRCRAFT

**HAIRPIN VORTICES**  
 USE HORSESHOE VORTICES

**HALF CONES**  
 RT AERODYNAMIC CONFIGURATIONS  
 CIRCULAR CONES  
 CONES  
 CONICS  
 NOSE CONES

**HALPHEN METHOD**  
 RT  $\infty$  METHODOLOGY

**HAMBURGER AIRCRAFT**  
 GS HAMBURGER AIRCRAFT  
 . C-160 AIRCRAFT  
 . HFB-320 AIRCRAFT  
 RT  $\infty$  AIRCRAFT

**HAMBURGER HFB-320 AIRCRAFT**  
 USE HFB-320 AIRCRAFT

**HAMILTON-JACOBI EQUATION**  
 RT  $\infty$  EQUATIONS  
 EQUATIONS OF MOTION  
 HAMILTONIAN FUNCTIONS  
 RELATIVISTIC PARTICLES

**HAMMERHEAD CONFIGURATION**  
 RT FOREBODIES  
 MISSILE CONFIGURATIONS

**HANDLEY PAGE AIRCRAFT**  
 GS HANDLEY PAGE AIRCRAFT  
 . HP-115 AIRCRAFT  
 . VICTOR MK-1 AIRCRAFT  
 RT  $\infty$  AIRCRAFT

**HANDLEY PAGE HP-115 AIRCRAFT**  
 USE HP-115 AIRCRAFT

**HANDLING QUALITIES**  
 USE CONTROLLABILITY

**HANG GLIDERS**  
 GS GLIDERS  
 . HANG GLIDERS  
 RT  $\infty$  AIRCRAFT  
 FLEXIBLE WINGS  
 FREE FLIGHT  
 MAN POWERED AIRCRAFT  
 PARAWINGS  
 SAILWINGS  
 SOARING  
 ULTRALIGHT AIRCRAFT  
 $\infty$  WINGED VEHICLES

**HANGARS**  
 UF AIRCRAFT HANGARS  
 RT AIRFIELD SURFACE MOVEMENTS

**HANGARS-(CONT.)**  
 AIRPORTS  
 BUILDINGS  
 GROUND HANDLING  
 GROUND STATIONS  
 HELIPORTS  
 MILITARY AIR FACILITIES

**HARNESSES**  
 RT COUCHES  
 SAFETY DEVICES  
 SEAT BELTS  
 SEATS  
 TRANSMISSION LINES

**HARPOON MISSILE**  
 GS MISSILES  
 . AIR TO SURFACE MISSILES  
 . HARPOON MISSILE  
 RT SURFACE TO SURFACE MISSILES  
 WEAPON SYSTEMS

**HARRIER AIRCRAFT**  
 UF AV-8A AIRCRAFT  
 AV-8B AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . FIGHTER AIRCRAFT  
 . HARRIER AIRCRAFT  
 . HAWKER SIDDELEY AIRCRAFT  
 . HARRIER AIRCRAFT  
 RT  $\infty$  AIRCRAFT  
 BUCCANEER AIRCRAFT  
 $\infty$  MILITARY AIRCRAFT  
 P-1127 AIRCRAFT  
 SAAB 37 AIRCRAFT  
 VAMPIRE MK 35 AIRCRAFT  
 VULCAN AIRCRAFT

**HARTMANN FLOW**  
 GS FLUID FLOW  
 . LAMINAR FLOW  
 . HARTMANN FLOW  
 . STEADY FLOW  
 . HARTMANN FLOW  
 RT COUETTE FLOW  
 MAGNETOHYDRODYNAMIC FLOW  
 MAGNETOHYDRODYNAMICS  
 TWO DIMENSIONAL FLOW

**HARTMANN NUMBER**  
 GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . HARTMANN NUMBER  
 RT MAGNETOHYDRODYNAMICS  
 VISCOUS DRAG

**HARTREE APPROXIMATION**  
 UF HARTREE-APPLETON APPROXIMATION  
 HARTREE-FOCK APPROXIMATION  
 GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . APPROXIMATION  
 . . HARTREE APPROXIMATION  
 RT ATOMIC STRUCTURE  
 MANY BODY PROBLEM  
 PERTURBATION THEORY  
 SELF CONSISTENT FIELDS  
 WAVE FUNCTIONS

**HARTREE-APPLETON APPROXIMATION**  
 USE HARTREE APPROXIMATION

**HARTREE-FOCK APPROXIMATION**  
 USE HARTREE APPROXIMATION

**HATCHES**  
 RT AIR LOCKS  
 DOORS  
 EGRESS  
 GATES (OPENINGS)  
 INGRESS (SPACECRAFT PASSAGEWAY)

**HAULING**  
 RT CARGO  
 DELIVERY  
 MATERIALS HANDLING  
 PACKAGING  
 TRANSPORTATION  
 TRANSPORTATION ENERGY  
 TRUCKS

**HAWK MISSILE**  
 GS MISSILES  
 . SURFACE TO AIR MISSILES

## HAWKER HUNTER AIRCRAFT

### HAWK MISSILE-(CONT.)

RT HAWK MISSILE  
SOLID PROPELLANT ROCKET ENGINES

### HAWKER HUNTER AIRCRAFT

USE F-2 AIRCRAFT

### HAWKER P-1052 AIRCRAFT

USE P-1052 AIRCRAFT

### HAWKER P-1127 AIRCRAFT

USE P-1127 AIRCRAFT

### HAWKER P-1154 AIRCRAFT

USE P-1154 AIRCRAFT

### HAWKER SIDDELEY AIRCRAFT

GS HAWKER SIDDELEY AIRCRAFT

ARGOSY MK-1 AIRCRAFT  
AVRO 707 AIRCRAFT  
BUCCANEER AIRCRAFT  
COMET 4 AIRCRAFT  
DH 112 AIRCRAFT  
DH 115 AIRCRAFT  
DH 121 AIRCRAFT  
DH 125 AIRCRAFT  
F-2 AIRCRAFT  
GA-5 AIRCRAFT  
HARRIER AIRCRAFT  
HS-748 AIRCRAFT  
HS-801 AIRCRAFT  
P-1052 AIRCRAFT  
P-1127 AIRCRAFT  
P-1154 AIRCRAFT  
SHACKLETON BOMBER  
VAMPIRE MK 35 AIRCRAFT  
VULCAN AIRCRAFT

RT ∞ AIRCRAFT

### HAWKEYE AIRCRAFT

USE E-2 AIRCRAFT

### HC-1 HELICOPTER

USE CH-47 HELICOPTER

### HC-3 HELICOPTER

UF OMNIPOL HC-3 HELICOPTER

GS GENERAL AVIATION AIRCRAFT

HC-3 HELICOPTER  
TRANSPORT AIRCRAFT  
HC-3 HELICOPTER  
UTILITY AIRCRAFT  
HC-3 HELICOPTER  
V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
HC-3 HELICOPTER  
PASSENGER AIRCRAFT

RT

### HD-1 GROUND EFFECT MACHINES

USE HOVERCRAFT GROUND EFFECT  
MACHINES

### HEAD (FLUID MECHANICS)

GS FLUID FLOW

HEAD (FLUID MECHANICS)  
HEAD FLOW  
PRESSURE HEADS  
ELEVATION  
GEOPOTENTIAL HEIGHT  
HYDROSTATIC PRESSURE  
HYDROSTATICS  
LIQUID FLOW  
PRESSURE  
SCALE HEIGHT

RT

### HEAD (PRESSURE)

USE PRESSURE HEADS

### HEAD FLOW

GS FLUID FLOW

HEAD (FLUID MECHANICS)  
HEAD FLOW  
BASE FLOW  
BLASIUS FLOW  
INLET FLOW  
LIQUID FLOW  
∞ PRESSURE DROP

RT

### HEAD-UP DISPLAYS

GS DISPLAY DEVICES

HEAD-UP DISPLAYS

RT AVIONICS

### HEAD-UP DISPLAYS-(CONT.)

CONSOLES  
FLIGHT INSTRUMENTS  
IMAGE TUBES  
INDICATING INSTRUMENTS  
LANDING AIDS  
NAVIGATION AIDS  
POSITION INDICATORS  
SPACECRAFT POSITION INDICATORS  
WARNING SYSTEMS

### HEART VALVES

GS VALVES

HEART VALVES

RT CORONARY CIRCULATION

### HEAT

GS HEAT

DRY HEAT  
ENTHALPY  
GIBBS FREE ENERGY  
HEAT OF DISSOCIATION  
HEAT OF FORMATION  
HEAT OF SOLUTION  
LATENT HEAT  
HEAT OF FUSION  
HEAT OF VAPORIZATION  
HEAT OF COMBUSTION  
NUCLEAR HEAT  
PROCESS HEAT  
SPECIFIC HEAT

RT ACTIVATION ENERGY

∞ ENERGY  
ENTROPY  
HEATING  
HEATING EQUIPMENT  
INFRARED RADIATION  
TEMPERATURE  
THERMAL ENERGY  
THERMAL INSULATION  
THERMAL RADIATION  
THERMOCHEMISTRY  
THERMODYNAMIC PROPERTIES  
THERMODYNAMICS  
WORK

### HEAT CONDUCTION

USE CONDUCTIVE HEAT TRANSFER

### HEAT DISSIPATION

USE COOLING

### HEAT DISSIPATION CHILLING

USE COOLING

### HEAT EFFECTS

USE TEMPERATURE EFFECTS

### HEAT EXCHANGERS

GS HEAT EXCHANGERS

TUBE HEAT EXCHANGERS  
CONDENSERS (LIQUEFIERS)  
COOLANTS  
COOLING  
COOLING FINS  
COOLING SYSTEMS  
COUNTERFLOW  
EVAPORATORS  
EXCHANGERS  
FINNED BODIES  
GAS COOLING  
GEOTHERMAL ENERGY EXTRACTION  
HEATING  
HEATING EQUIPMENT  
REGENERATIVE COOLING  
REGENERATORS  
SNAP  
SNAP 1  
SNAP 2  
SNAP 8  
SNAP 10A  
SPACE COOLING (BUILDINGS)  
SPACE POWER REACTORS  
SPACE POWER UNIT REACTORS  
WASTE HEAT  
WATER HEATING

RT

### HEAT FLOW

USE HEAT TRANSMISSION

### HEAT GAIN

USE HEATING

### HEAT MEASUREMENT

UF CALORIMETRY  
RT BOLOMETERS  
BOMB CALORIMETERS  
CALORIMETERS  
DROP CALORIMETERS  
ENTHALPY  
FLAME CALORIMETERS  
∞ MEASUREMENT  
SHELL ANODES

### HEAT OF COMBUSTION

UF COMBUSTION HEAT  
GS CHEMICAL PROPERTIES  
THERMOCHEMICAL PROPERTIES  
HEAT OF COMBUSTION  
HEAT  
HEAT OF COMBUSTION  
THERMODYNAMIC PROPERTIES  
THERMOCHEMICAL PROPERTIES  
HEAT OF COMBUSTION  
RT COMBUSTION PHYSICS  
GUNS (ORDNANCE)

### HEAT OF VAPORIZATION

UF VAPORIZATION HEAT  
GS CHEMICAL PROPERTIES  
THERMOCHEMICAL PROPERTIES  
LATENT HEAT  
HEAT OF VAPORIZATION  
HEAT  
ENTHALPY  
LATENT HEAT  
HEAT OF VAPORIZATION  
THERMODYNAMIC PROPERTIES  
ENTHALPY  
LATENT HEAT  
HEAT OF VAPORIZATION  
THERMOCHEMICAL PROPERTIES  
LATENT HEAT  
HEAT OF VAPORIZATION  
THERMOPHYSICAL PROPERTIES  
LATENT HEAT  
HEAT OF VAPORIZATION  
RT VAPORIZING

### HEAT PIPES

SN (EXCLUDES PIPES AND TUBES USED  
FOR THE TRANSMISSION OF HEATED  
LIQUIDS OR GASES)  
RT GEOTHERMAL ENERGY UTILIZATION  
SPACECRAFT TEMPERATURE

### HEAT PUMPS

RT AIR CONDITIONING  
AIR CONDITIONING EQUIPMENT  
CONDENSERS (LIQUEFIERS)  
COOLING SYSTEMS  
GEOTHERMAL ENERGY EXTRACTION  
HEATING EQUIPMENT  
PUMPS  
REFRIGERATING MACHINERY  
RESIDENTIAL ENERGY  
SPACE COOLING (BUILDINGS)  
THERMOELECTRIC COOLING  
WASTE HEAT

### HEAT REGULATION

USE TEMPERATURE CONTROL

### HEAT RESISTANCE

USE THERMAL RESISTANCE

### HEAT RESISTANT ALLOYS

UF HIGH TEMPERATURE ALLOYS  
SUPERALLOYS  
GS ALLOYS  
HEAT RESISTANT ALLOYS  
NIMONIC ALLOYS  
REFRACTORY METAL ALLOYS  
MOLYBDENUM ALLOYS  
RENE 41  
RENE 63  
RENE 77  
NIOBIUM ALLOYS  
OSMIUM ALLOYS  
RHENIUM ALLOYS  
TANTALUM ALLOYS  
TUNGSTEN ALLOYS  
UDIMET ALLOYS  
WASPALOY  
RT ALUMINIDES  
CERMETS  
CHROMIUM ALLOYS  
COBALT ALLOYS

**HEAT RESISTANT ALLOYS-(CONT.)**

HAFNIUM ALLOYS  
NICKEL ALLOYS  
REFRACTORY METALS  
SULFIDATION  
SUPERPLASTICITY

**HEAT SINKS**

UF THERMAL SINKS  
GS SINKS  
RT . **HEAT SINKS**  
ABLATIVES MATERIALS  
ABSORBERS (MATERIALS)  
COOLING SYSTEMS  
ENDOTHERMIC REACTIONS  
ENERGY ABSORPTION  
REENTRY SHIELDING  
REGENERATORS  
THERMAL ABSORPTION  
THERMAL INSULATION

**HEAT TESTS**

USE HIGH TEMPERATURE TESTS

**HEAT TRANSFER**

SN (TRANSMISSION ACROSS AN INTERFACE)  
UF NONADIABATIC PROCESSES  
GS TRANSMISSION  
RT . **HEAT TRANSFER**  
AERODYNAMIC HEAT TRANSFER  
HYPERSONIC HEAT TRANSFER  
SUPERSONIC HEAT TRANSFER  
CONDUCTIVE HEAT TRANSFER  
CONVECTIVE HEAT TRANSFER  
LAMINAR HEAT TRANSFER  
RADIATIVE HEAT TRANSFER  
TURBULENT HEAT TRANSFER  
ADVECTION  
ATMOSPHERIC HEAT BUDGET  
BATHS  
BIOT NUMBER  
BOILING  
BOUSSINESQ APPROXIMATION  
CHEMICAL ENGINEERING  
COMPRESSIBILITY EFFECTS  
∞ CONDUCTION  
COOLING  
COUNTERFLOW  
CRYOGENIC COOLING  
DIFFUSE RADIATION  
DIMENSIONLESS NUMBERS  
ENERGY TRANSFER  
FILM BOILING  
FILM CONDENSATION  
FLAT PLATES  
FLUID BOUNDARIES  
FORCED CONVECTION  
GAS TRANSPORT  
GAS-LIQUID INTERACTIONS  
GAS-SOLID INTERFACES  
GEOTHERMAL ENERGY CONVERSION  
GEOTHERMAL TECHNOLOGY  
HEATING  
HOT SURFACES  
LEIDENFROST PHENOMENON  
LEWIS NUMBERS  
LIQUID-LIQUID INTERFACES  
LIQUID-SOLID INTERFACES  
LIQUID-VAPOR INTERFACES  
MASS TRANSFER  
MECHANICAL ENGINEERING  
METAL VAPORS  
NONADIABATIC CONDITIONS  
NONGRAY GAS  
NONISOTHERMAL PROCESSES  
NUCLEATE BOILING  
NUSSELT NUMBER  
PECLET NUMBER  
PHASE CHANGE MATERIALS  
PRANDTL NUMBER  
RADIATIVE TRANSFER  
RAYLEIGH EQUATIONS  
REUSABLE HEAT SHIELDING  
STAGNATION POINT  
STANTON NUMBER  
TEMPERATURE PROFILES  
TEMPERATURE RATIO  
THERMAL DIFFUSION  
THERMAL EXPANSION  
THERMAL INSULATION  
THERMAL POLLUTION  
THERMODYNAMICS  
THERMOMIGRATION

**HEAT TRANSFER-(CONT.)**

TRANSFERRING  
TRANSPORT PROPERTIES  
WASTE ENERGY UTILIZATION

**HEAT TRANSFER COEFFICIENTS**

SN (HEAT FLUX PER UNIT AREA PER UNIT TEMPERATURE DIFFERENCE)  
GS COEFFICIENTS  
RT . **HEAT TRANSFER COEFFICIENTS**  
ACCOMMODATION COEFFICIENT  
EVAPORATION RATE  
HEATING  
MASS FLOW FACTORS  
NUCLEATE BOILING

**HEAT TRANSMISSION**

UF HEAT FLOW  
GS TRANSMISSION  
RT . **HEAT TRANSMISSION**  
HEAT TRANSFER  
AERODYNAMIC HEAT TRANSFER  
HYPERSONIC HEAT TRANSFER  
SUPERSONIC HEAT TRANSFER  
CONDUCTIVE HEAT TRANSFER  
CONVECTIVE HEAT TRANSFER  
LAMINAR HEAT TRANSFER  
RADIATIVE HEAT TRANSFER  
TURBULENT HEAT TRANSFER  
ADIABATIC EQUATIONS  
ANNULAR FLOW  
CONVECTION  
CONVECTIVE FLOW  
DUCTED FLOW  
EQUILIBRIUM FLOW  
∞ FLOW  
FLUID FLOW  
GEOPHYSICS  
GEOTHERMAL ENERGY CONVERSION  
GEOTHERMAL ENERGY EXTRACTION  
GEOTHERMAL RESOURCES  
MASS FLOW FACTORS  
NONEQUILIBRIUM FLOW  
POTENTIAL FLOW  
RADIAL FLOW  
RADIATIVE TRANSFER  
STEADY FLOW  
THERMAL ANALYSIS  
THERMAL INSULATION  
THERMOHYDRAULICS  
UNIFORM FLOW  
UNSTEADY FLOW  
WALL FLOW

**HEATING**

UF HEAT GAIN  
PREHEATING  
REHEATING  
WARMING  
GS **HEATING**  
ARC HEATING  
ATMOSPHERIC HEATING  
GLOBAL WARMING  
STRATOSPHERIC WARMING  
BAKING  
BASE HEATING  
GAS HEATING  
INDUCTION HEATING  
IONOSPHERIC HEATING  
KINETIC HEATING  
AERODYNAMIC HEATING  
SHOCK HEATING  
LASER HEATING  
MAGNETOHYDRODYNAMIC SHEAR HEATING  
PASTEURIZING  
PLASMA HEATING  
ELECTRON CYCLOTRON HEATING  
RADIANT HEATING  
RADIO FREQUENCY HEATING  
RESISTANCE HEATING  
SOLAR HEATING  
SPACE HEATING (BUILDINGS)  
SUPERHEATING  
TRANSIENT HEATING  
PULSE HEATING  
SHOCK HEATING  
WATER HEATING  
RT AIR CONDITIONING  
ANNEALING  
AUTOCLAVING  
BOILING  
CEMENTATION  
∞ CONDUCTION  
CONVECTION

**HELICOPTER ATTITUDE INDICATORS****HEATING-(CONT.)**

COOLING  
DECARBURIZATION  
DEFROSTING  
ENVIRONMENTAL ENGINEERING  
GEOTHERMAL ENERGY EXTRACTION  
GEOTHERMAL ENERGY UTILIZATION  
HEAT EXCHANGERS  
HEAT GENERATION  
HEAT TRANSFER  
HEAT TRANSFER COEFFICIENTS  
HEAT TREATMENT  
HEATING EQUIPMENT  
HILSCH TUBES  
HYDROTHERMAL SYSTEMS  
ICE PREVENTION  
INTEGRATED ENERGY SYSTEMS  
JACKETS  
LASER ANNEALING  
LASER WELDING  
MELTING  
MODULAR INTEGRATED UTILITY SYSTEM  
∞ RADIATION  
ROASTING  
SINTERING  
∞ SOAKING  
TEMPERATURE  
TEMPERATURE CONTROL  
TEMPERATURE DISTRIBUTION  
THERMAL CYCLING TESTS  
THERMAL SHOCK  
THERMAL STRESSES  
VAPORIZING  
WASTE ENERGY UTILIZATION

**HEAVING**

RT BENDING  
∞ BOWS  
BUCKLING  
DISPLACEMENT  
DISTORTION  
FLEXING  
∞ MOTION  
PITCH (INCLINATION)  
WARPAGE

**HEAVY LIFT AIRSHIPS**

GS AIRSHIPS  
RT . **HEAVY LIFT AIRSHIPS**  
MATERIALS HANDLING  
ROTORS

**HEAVY LIFT HELICOPTERS**

GS V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
HEAVY LIFT HELICOPTERS  
CH-62 HELICOPTER  
RT AIR CARGO  
∞ AIRCRAFT  
CARGO AIRCRAFT  
HELICOPTER DESIGN

**HEAVY LIFT LAUNCH VEHICLES**

UF HLLV  
GS LAUNCH VEHICLES  
HEAVY LIFT LAUNCH VEHICLES  
RT ADVANCED LAUNCH SYSTEM (STS)  
ROCKET ENGINES  
∞ ROCKETS  
SPACECRAFT LAUNCHING  
∞ VEHICLES

**HEF (HIGH ENERGY FUELS)**

USE HIGH ENERGY FUELS

**HEINKEL AIRCRAFT**

RT ∞ AIRCRAFT

**HELICAL FLOW**

GS FLUID FLOW  
HELICAL FLOW  
RT AXISYMMETRIC FLOW  
FLOW GEOMETRY  
∞ HELICES  
MAGNETOHYDRODYNAMIC STABILITY  
THREE DIMENSIONAL FLOW

**HELICOPTER ATTITUDE INDICATORS**

USE ATTITUDE INDICATORS  
HELICOPTERS

## HELICOPTER CONTROL

### HELICOPTER CONTROL

GS AIRCRAFT CONTROL  
 . HELICOPTER CONTROL  
 RT AIRBORNE RADAR APPROACH  
 ATTITUDE CONTROL  
 AUTOMATIC CONTROL  
 ∞ CONTROL  
 CONTROLLABILITY  
 DIRECTIONAL CONTROL  
 FLIGHT CONTROL  
 HARMONIC CONTROL  
 HELICOPTERS  
 LATERAL CONTROL  
 LONGITUDINAL CONTROL  
 MANUAL CONTROL  
 SPEED CONTROL  
 TAIL ROTORS

### HELICOPTER DESIGN

GS AIRCRAFT DESIGN  
 . HELICOPTER DESIGN  
 RT COMPOUND HELICOPTERS  
 COMPUTER AIDED DESIGN  
 ∞ DESIGN  
 ENGINE DESIGN  
 HEAVY LIFT HELICOPTERS  
 HELICOPTERS  
 PRODUCT DEVELOPMENT  
 ROTOR BODY INTERACTIONS  
 STREAMLINING  
 STRUCTURAL DESIGN  
 UH-60A HELICOPTER  
 UH-61A HELICOPTER  
 WHIRL TOWERS

### HELICOPTER ENGINES

GS AIRCRAFT ENGINES  
 . HELICOPTER ENGINES  
 ENGINES  
 . INTERNAL COMBUSTION ENGINES  
 . HELICOPTER ENGINES  
 RT CONVERTIBLE FAN-SHAFT ENGINES  
 HELICOPTERS  
 JET ENGINES  
 T-53 ENGINE  
 T-55 ENGINE  
 T-58 ENGINE  
 T-58-GE-8B ENGINE  
 T-63 ENGINE  
 T-64 ENGINE  
 T-74 ENGINE  
 T-76 ENGINE

### HELICOPTER IMPULSIVE NOISE

USE BLADE SLAP NOISE

### HELICOPTER PERFORMANCE

GS AIRCRAFT PERFORMANCE  
 . HELICOPTER PERFORMANCE  
 RT AERODYNAMIC STABILITY  
 AIRCRAFT RELIABILITY  
 CONTROLLABILITY  
 FLIGHT CHARACTERISTICS  
 FLIGHT ENVELOPES  
 HELICOPTERS  
 MANEUVERABILITY

### HELICOPTER PROPELLER DRIVE

GS MECHANICAL DRIVES  
 . PROPELLER DRIVE  
 . HELICOPTER PROPELLER DRIVE  
 RT HELICOPTERS  
 JET PROPULSION  
 ROTARY WINGS  
 TILTED PROPELLERS  
 VARIABLE PITCH PROPELLERS

### HELICOPTER ROTORS

USE ROTARY WINGS

### HELICOPTER TAIL ROTORS

GS ROTATING BODIES  
 . ROTORS  
 . TAIL ROTORS  
 . HELICOPTER TAIL ROTORS  
 RT HELICOPTERS  
 ROTARY WINGS  
 ∞ ROTOR BLADES

### HELICOPTER WAKES

GS WAKES  
 . AIRCRAFT WAKES  
 . HELICOPTER WAKES  
 RT DOWNWASH  
 HELICOPTERS

### HELICOPTERS

UF DRONE HELICOPTERS  
 GYROPLANES  
 HELICOPTER ATTITUDE INDICATORS  
 GS V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . ALOUETTE HELICOPTERS  
 . . . SA-330 HELICOPTER  
 . . . SE-3160 HELICOPTER  
 . . . COMPOUND HELICOPTERS  
 . . . H-17 HELICOPTER  
 . . . LIGHT HELICOPTERS  
 . . . OH-4 HELICOPTER  
 . . . OH-5 HELICOPTER  
 . . . OH-6 HELICOPTER  
 . . . OH-58 HELICOPTER  
 . . . MILITARY HELICOPTERS  
 . . . AH-1G HELICOPTER  
 . . . AH-64 HELICOPTER  
 . . . BELL 214A HELICOPTER  
 . . . BO-105 HELICOPTER  
 . . . CH-3 HELICOPTER  
 . . . CH-21 HELICOPTER  
 . . . CH-34 HELICOPTER  
 . . . CH-46 HELICOPTER  
 . . . CH-47 HELICOPTER  
 . . . CH-54 HELICOPTER  
 . . . H-19 HELICOPTER  
 . . . H-43 HELICOPTER  
 . . . H-53 HELICOPTER  
 . . . H-54 HELICOPTER  
 . . . H-56 HELICOPTER  
 . . . H-60 HELICOPTER  
 . . . HC-3 HELICOPTER  
 . . . HEAVY LIFT HELICOPTERS  
 . . . CH-62 HELICOPTER  
 . . . HH-43 HELICOPTER  
 . . . OH-4 HELICOPTER  
 . . . OH-5 HELICOPTER  
 . . . OH-6 HELICOPTER  
 . . . OH-13 HELICOPTER  
 . . . OH-23 HELICOPTER  
 . . . OH-58 HELICOPTER  
 . . . P-531 HELICOPTER  
 . . . QH-50 HELICOPTER  
 . . . S-58 HELICOPTER  
 . . . S-61 HELICOPTER  
 . . . SA-321 HELICOPTER  
 . . . SA-330 HELICOPTER  
 . . . SH-3 HELICOPTER  
 . . . SH-4 HELICOPTER  
 . . . SIKORSKY WHIRLWIND  
 HELICOPTER  
 . . . UH-1 HELICOPTER  
 . . . UH-2 HELICOPTER  
 . . . UH-34 HELICOPTER  
 . . . UH-60A HELICOPTER  
 . . . UH-61A HELICOPTER  
 . . . WESTLAND WHIRLWIND  
 HELICOPTER  
 . . . XV-9A AIRCRAFT  
 . . . RIGID ROTOR HELICOPTERS  
 . . . CH-3 HELICOPTER  
 . . . F-26 HELICOPTER  
 . . . XH-51 HELICOPTER  
 . . . TANDEM ROTOR HELICOPTERS  
 . . . CH-46 HELICOPTER  
 . . . CH-47 HELICOPTER  
 . . . H-25 HELICOPTER  
 . . . TH-55 HELICOPTER  
 RT AIRBORNE RADAR APPROACH  
 ∞ AIRCRAFT  
 . AIRCRAFT SURVIVABILITY  
 . BLADE SLAP NOISE  
 . BLADE-VORTEX INTERACTION  
 . GENERAL AVIATION AIRCRAFT  
 . GROUND RESONANCE  
 . H-56 HELICOPTER  
 . HELICOPTER CONTROL  
 . HELICOPTER DESIGN  
 . HELICOPTER ENGINES  
 . HELICOPTER PERFORMANCE  
 . HELICOPTER PROPELLER DRIVE  
 . HELICOPTER TAIL ROTORS  
 . HELICOPTER WAKES  
 . HELIPTS  
 ∞ MILITARY AIRCRAFT  
 . NAP-OF-THE-EARTH NAVIGATION  
 . RECOVERY VEHICLES  
 . ROTOR SYSTEMS RESEARCH AIRCRAFT  
 . ROTORCRAFT AIRCRAFT  
 . SHORT TAKEOFF AIRCRAFT  
 ∞ SUBSONIC AIRCRAFT  
 . TILT ROTOR AIRCRAFT

### HELICOPTERS-(CONT.)

TILT ROTOR RESEARCH AIRCRAFT  
 PROGRAM  
 UTILITY AIRCRAFT  
 V-22 AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 WESER AIRCRAFT  
 WESTLAND AIRCRAFT  
 XV-15 AIRCRAFT

### HELIO AIRCRAFT

UF HELIO MILITARY AIRCRAFT  
 GS HELIO AIRCRAFT  
 . U-10 AIRCRAFT  
 RT ∞ AIRCRAFT

### HELIO MILITARY AIRCRAFT

USE HELIO AIRCRAFT

### HELIOSTATS

RT ∞ INSTRUMENTS  
 MIRRORS  
 REFLECTORS  
 SERVOMOTORS  
 SOLAR REFLECTORS  
 SYNCHRONIZERS

### HELIPTS

GS AIRPTS  
 . HELIPTS  
 RT AIR TRAFFIC CONTROL  
 AIRPORT PLANNING  
 AIRPORT TOWERS  
 HANGARS  
 HELICOPTERS  
 LANDING AIDS  
 LANDING SITES  
 MILITARY AIR FACILITIES  
 NAVIGATION AIDS  
 SOLAR COMPASSES  
 V/STOL AIRCRAFT

### ∞ HELMHOLTZ EQUATIONS

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)  
 RT ∞ EQUATIONS  
 HELMHOLTZ VORTICITY EQUATION  
 KELVIN-HELMHOLTZ INSTABILITY  
 TIME DEPENDENCE  
 WAVE EQUATIONS

### HELMHOLTZ VORTICITY EQUATION

GS ANALYSIS (MATHEMATICS)  
 . REAL VARIABLES  
 . DIFFERENTIAL EQUATIONS  
 . PARTIAL DIFFERENTIAL EQUATIONS  
 . . . HELMHOLTZ VORTICITY  
 EQUATION  
 . . . VORTICITY EQUATIONS  
 . . . HELMHOLTZ VORTICITY  
 EQUATION  
 EQUATIONS OF MOTION  
 . KINETIC EQUATIONS  
 . HYDRODYNAMIC EQUATIONS  
 . . . HELMHOLTZ VORTICITY EQUATION  
 FLOW EQUATIONS  
 . VORTICITY EQUATIONS  
 . . HELMHOLTZ VORTICITY EQUATION  
 RT ∞ EQUATIONS  
 ∞ HELMHOLTZ EQUATIONS  
 VORTICITY

### HERCULES AIRCRAFT

USE C-130 AIRCRAFT

### HERMES MANNED SPACEPLANE

GS MANNED SPACECRAFT  
 . SPACE SHUTTLES  
 . . HERMES MANNED SPACEPLANE  
 REENTRY VEHICLES  
 . RECOVERABLE SPACECRAFT  
 . REUSABLE SPACECRAFT  
 . . . SPACE SHUTTLES  
 . . . HERMES MANNED SPACEPLANE  
 RT FRENCH SPACE PROGRAM  
 SPACE TRANSPORTATION SYSTEM  
 SPACECRAFT DESIGN

### HFB-320 AIRCRAFT

UF HAMBURGER HFB-320 AIRCRAFT  
 GS HAMBURGER AIRCRAFT  
 . HFB-320 AIRCRAFT  
 JET AIRCRAFT

## HIGH TEMPERATURE TESTS

### HFB-320 AIRCRAFT-(CONT.)

. HFB-320 AIRCRAFT  
 MONOPLANES  
 . HFB-320 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . HFB-320 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . HFB-320 AIRCRAFT  
 RT  $\infty$  AIRCRAFT

### HH-43 HELICOPTER

UF HH-43B HELICOPTER  
 HUSKIE HELICOPTER  
 GS KAMAN AIRCRAFT  
 . HH-43 HELICOPTER  
 UTILITY AIRCRAFT  
 . HH-43 HELICOPTER  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . HH-43 HELICOPTER

### HH-43B HELICOPTER

USE HH-43 HELICOPTER

### HXX HELICOPTER

USE H-53 HELICOPTER

### HIGH ACCELERATION

GS RATES (PER TIME)  
 . ACCELERATION (PHYSICS)  
 . . HIGH ACCELERATION  
 RT  $\infty$  ACCELERATION  
 ACCELERATION STRESSES  
 (PHYSIOLOGY)  
 ACCELERATION TOLERANCE  
 ELECTRON RUNAWAY (PLASMA  
 PHYSICS)  
 MECHANICAL SHOCK  
 $\infty$  MOTION  
 SHOCK RESISTANCE

### HIGH ALT TARGET AND BACKGROUND MEASUREMENT

UF HITAB PROGRAM  
 RT  $\infty$  MEASUREMENT  
 TARGET ACQUISITION

### HIGH ALTITUDE

UF HIGH ALTITUDE FLIGHT  
 GS ALTITUDE  
 . HIGH ALTITUDE  
 RT MIDALTITUDE  
 SKYHOOK BALLOONS  
 UPPER ATMOSPHERE

### HIGH ALTITUDE BALLOONS

GS EXPANDABLE STRUCTURES  
 . INFLATABLE STRUCTURES  
 . . BALLOONS  
 . . . HIGH ALTITUDE BALLOONS  
 . . . . JIMSPHERE BALLOONS  
 . . . . SKYHOOK BALLOONS  
 . . . . SUPERPRESSURE BALLOONS  
 RT BALLOON-BORNE INSTRUMENTS  
 GAS BAGS  
 METEOROLOGICAL BALLOONS  
 ROBIN BALLOONS  
 ROCKOONS

### HIGH ALTITUDE FLIGHT

USE FLIGHT  
 HIGH ALTITUDE

### HIGH ALTITUDE PRESSURE

GS PRESSURE  
 . LOW PRESSURE  
 . . HIGH ALTITUDE PRESSURE  
 RT ALTITUDE TOLERANCE  
 ATMOSPHERIC PRESSURE  
 HYPOBARIC ATMOSPHERES  
 VACUUM CHAMBERS

### HIGH ASPECT RATIO

GS RATIOS  
 . ASPECT RATIO  
 . . HIGH ASPECT RATIO

### HIGH ASPECT RATIO WINGS

USE SLENDER WINGS

### HIGH ENERGY FUELS

SN (HEAT CONTENT GREATER THAN OR  
 EQUAL TO APPROXIMATELY 25,000  
 BTU/LB)  
 UF HEF (HIGH ENERGY FUELS)  
 GS FUELS  
 . CHEMICAL FUELS  
 . . HIGH ENERGY FUELS  
 RT ADDITIVES  
 BORON COMPOUNDS  
 CATALYSTS  
 CRYOGENIC ROCKET PROPELLANTS  
 HYBRID PROPELLANTS  
 HYDROCARBON FUELS

### HIGH ENERGY PROPELLANTS

GS PROPELLANTS  
 . HIGH ENERGY PROPELLANTS  
 . . DOMINO PROPELLANTS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 GASEOUS ROCKET PROPELLANTS  
 HYBRID PROPELLANTS  
 LIQUID ROCKET PROPELLANTS

### HIGH PRESSURE

GS PRESSURE  
 . HIGH PRESSURE  
 RT ANTICYCLONES  
 CRITICAL PRESSURE  
 DEGENERATE MATTER  
 HYPERBARIC CHAMBERS  
 LOW PRESSURE  
 SUPERCRITICAL PRESSURES  
 TRANSITION PRESSURE  
 VACUUM

### $\infty$ HIGH RESISTANCE

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)  
 RT CHEMICAL PROPERTIES  
 ELECTRICAL RESISTANCE  
 FLOW RESISTANCE  
 MECHANICAL PROPERTIES  
 $\infty$  PHYSICAL PROPERTIES  
 $\infty$  RESISTANCE  
 RUGGEDNESS  
 THERMAL RESISTANCE

### HIGH REYNOLDS NUMBER

SN (RN ABOVE 3,000)  
 GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . . REYNOLDS NUMBER  
 . . . HIGH REYNOLDS NUMBER  
 RT LOW REYNOLDS NUMBER

### HIGH SPEED

UF HIGH SPEED FLIGHT  
 GS RATES (PER TIME)  
 . HIGH SPEED  
 VELOCITY  
 . HIGH SPEED  
 RT AIRSPEED  
 ESCAPE VELOCITY  
 GROUND SPEED  
 HYPERSONIC SPEED  
 LANDING SPEED  
 LIGHT SPEED  
 RELATIVISTIC VELOCITY  
 ROTOR SPEED  
 SUPERSONIC SPEED

### HIGH SPEED CAMERAS

GS OPTICAL EQUIPMENT  
 . CAMERAS  
 . . HIGH SPEED CAMERAS  
 . . . FRAMING CAMERAS  
 PHOTOGRAPHIC EQUIPMENT  
 . CAMERAS  
 . . HIGH SPEED CAMERAS  
 . . . FRAMING CAMERAS  
 RT BALLISTIC CAMERAS  
 FRAME PHOTOGRAPHY  
 HIGH SPEED PHOTOGRAPHY  
 ROTATING MIRRORS  
 STREAK PHOTOGRAPHY  
 STROBOSCOPES

### HIGH SPEED FLIGHT

USE FLIGHT  
 HIGH SPEED

### HIGH SPEED PHOTOGRAPHY

GS PHOTOGRAPHY

### HIGH SPEED PHOTOGRAPHY-(CONT.)

RT . HIGH SPEED PHOTOGRAPHY  
 HIGH SPEED CAMERAS  
 PHOTOGRAPHIC RECORDING

### HIGH SPEED TRANSPORTATION

USE RAPID TRANSIT SYSTEMS

### HIGH TEMPERATURE

GS TEMPERATURE  
 . HIGH TEMPERATURE  
 RT SIALON  
 TEMPERATURE MEASUREMENT

### HIGH TEMPERATURE AIR

UF HOT AIR  
 GS GASES  
 . GAS MIXTURES  
 . . AIR  
 . . . HIGH TEMPERATURE AIR  
 . . . HIGH TEMPERATURE GASES  
 . . . HIGH TEMPERATURE AIR  
 HIGH TEMPERATURE FLUIDS  
 . HIGH TEMPERATURE GASES  
 . . HIGH TEMPERATURE AIR  
 MIXTURES  
 . SOLUTIONS  
 . . GAS MIXTURES  
 . . . AIR  
 . . . . HIGH TEMPERATURE AIR

### HIGH TEMPERATURE ALLOYS

USE HEAT RESISTANT ALLOYS

### HIGH TEMPERATURE FLUIDS

GS HIGH TEMPERATURE FLUIDS  
 . HIGH TEMPERATURE GASES  
 . . HIGH TEMPERATURE AIR  
 RT  $\infty$  FLUIDS  
 HYDRAULIC FLUIDS  
 PLASMAS (PHYSICS)  
 WORKING FLUIDS

### HIGH TEMPERATURE GASES

UF HOT GAS SYSTEMS  
 HOT GASES  
 HOT JET EXHAUST  
 GASES  
 GS . HIGH TEMPERATURE GASES  
 . . HIGH TEMPERATURE AIR  
 HIGH TEMPERATURE FLUIDS  
 . HIGH TEMPERATURE GASES  
 . . HIGH TEMPERATURE AIR  
 RT COMBUSTION PRODUCTS  
 EXHAUST EMISSION  
 IONIZED GASES  
 PNEUMATIC PROBES  
 RAREFIED GASES  
 SHOCK WAVE PROPAGATION

### HIGH TEMPERATURE PROPELLANTS

GS PROPELLANTS  
 . HIGH TEMPERATURE PROPELLANTS  
 RT ELECTROTHERMAL ENGINES  
 GELLED PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 ION PROPULSION  
 NUCLEAR PROPULSION  
 PLASMA ENGINES  
 SOLID PROPELLANTS  
 STORABLE PROPELLANTS

### HIGH TEMPERATURE TESTS

UF HEAT TESTS  
 GS ENVIRONMENTAL TESTS  
 . HIGH TEMPERATURE TESTS  
 RT BOMB CALORIMETERS  
 CALORIMETERS  
 CHEMICAL TESTS  
 COLD STRENGTH  
 COLD WEATHER TESTS  
 CRYOSTATS  
 DROP CALORIMETERS  
 FLAME CALORIMETERS  
 HARDNESS TESTS  
 LUBRICANT TESTS  
 $\infty$  MATERIALS TESTS  
 MELTING POINTS  
 NONDESTRUCTIVE TESTS  
 TEMPERATURE CONTROL  
 $\infty$  TESTS  
 THERMAL EXPANSION  
 THERMAL RESISTANCE  
 THERMAL SHOCK  
 THERMAL STABILITY

## HIGH THRUST

### HIGH TEMPERATURE TESTS-(CONT.)

THERMODYNAMIC PROPERTIES  
TRANSPORT PROPERTIES

#### HIGH THRUST

GS THRUST  
RT HIGH THRUST  
JET THRUST  
LOW THRUST  
ROCKET THRUST  
THRUST AUGMENTATION  
VARIABLE THRUST

#### HIGHLY MANEUVERABLE AIRCRAFT

UF HIMAT  
RT AIRBORNE/SPACEBORNE COMPUTERS  
∞ AIRCRAFT  
AIRCRAFT MANEUVERS  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC PILOTS  
COMPUTERIZED SIMULATION  
FIGHTER AIRCRAFT  
FLIGHT CHARACTERISTICS  
FLIGHT TESTS  
REMOTELY PILOTED VEHICLES

#### HJACKING

USE AIR PIRACY

#### HILLER AIRCRAFT

UF HILLER MILITARY AIRCRAFT  
GS HILLER AIRCRAFT  
OH-5 HELICOPTER  
RT ∞ AIRCRAFT

#### HILLER MILITARY AIRCRAFT

USE HILLER AIRCRAFT  
MILITARY AIRCRAFT

#### HILSCH TUBES

UF VORTEX TUBES  
RT COAXIAL FLOW  
COOLING  
HEATING  
∞ TUBES  
VORTEX GENERATORS  
VORTICES

#### HIMAT

USE HIGHLY MANEUVERABLE AIRCRAFT

#### HINGE MOMENTS

USE TORQUE

#### HINGED ROTOR BLADES

USE HINGES  
ROTARY WINGS

#### HINGELESS ROTORS

USE RIGID ROTORS

#### HITAB PROGRAM

USE HIGH ALT TARGET AND BACKGROUND  
MEASUREMENT

#### HL-10 REENTRY VEHICLE

GS GLIDERS  
HL-10 REENTRY VEHICLE  
LIFTING BODIES  
LIFTING REENTRY VEHICLES  
HL-10 REENTRY VEHICLE  
REENTRY VEHICLES  
MANEUVERABLE REENTRY BODIES  
LIFTING REENTRY VEHICLES  
HL-10 REENTRY VEHICLE  
HYPERSONIC GLIDERS  
RT

#### HLD-35 REENTRY VEHICLE

GS LIFTING BODIES  
LIFTING REENTRY VEHICLES  
HLD-35 REENTRY VEHICLE  
REENTRY VEHICLES  
MANEUVERABLE REENTRY BODIES  
LIFTING REENTRY VEHICLES  
HLD-35 REENTRY VEHICLE  
HYPERSONIC GLIDERS  
RT

#### HLIV

USE HEAVY LIFT LAUNCH VEHICLES

#### HO-4 HELICOPTER

USE OH-4 HELICOPTER

#### HO-5 HELICOPTER

USE OH-5 HELICOPTER

#### HO-6 HELICOPTER

USE OH-6 HELICOPTER

#### HODOGRAPHS

RT CHAPLYGIN EQUATION  
KINEMATICS  
VECTOR SPACES

#### HOGBACKS

USE RIDGES

#### HOLOGRAPHIC INTERFEROMETRY

GS INTERFEROMETRY  
HOLOGRAPHIC INTERFEROMETRY  
RT COHERENT LIGHT  
DIFFRACTION PATTERNS  
HOLOGRAPHY  
LASER OUTPUTS  
MOIRE INTERFEROMETRY  
SCATTER PLATES (OPTICS)  
SPECKLE HOLOGRAPHY  
WAVE FRONT RECONSTRUCTION

#### HOLOGRAPHY

GS IMAGERY  
HOLOGRAPHY  
ACOUSTICAL HOLOGRAPHY  
MICROWAVE HOLOGRAPHY  
SPECKLE HOLOGRAPHY  
WHITE LIGHT HOLOGRAPHY  
PHOTOGRAPHY  
HOLOGRAPHY  
ACOUSTICAL HOLOGRAPHY  
MICROWAVE HOLOGRAPHY  
SPECKLE HOLOGRAPHY  
WHITE LIGHT HOLOGRAPHY  
RT COHERENT ELECTROMAGNETIC  
RADIATION  
COHERENT LIGHT  
DATA STORAGE  
DIFFERENTIAL INTERFEROMETRY  
HOLE BURNING  
HOLOGRAMMETRY  
HOLOGRAPHIC INTERFEROMETRY  
HOLOGRAPHIC SPECTROSCOPY  
HOLOGRAPHIC SUBTRACTION  
IMAGE CORRELATORS  
IMAGE RECONSTRUCTION  
KINOFORM  
LASERS  
OPTICAL MEMORY (DATA STORAGE)  
SCATTER PLATES (OPTICS)  
SPATIAL FILTERING  
SPECKLE PATTERNS  
WAVE FRONT RECONSTRUCTION

#### HOMING

RT AUTOMATIC PILOTS  
BEACONS  
GUIDANCE (MOTION)  
MISSILE CONTROL  
RADIO DIRECTION FINDERS  
TERMINAL GUIDANCE

#### HOMING DEVICES

UF SEEKERS  
RT BEACONS  
GUIDANCE (MOTION)  
INFRARED TRACKING  
LASER GUIDANCE  
MISSILES  
NAVIGATION  
NAVIGATION AIDS  
RADIO BEACONS  
RADIO DIRECTION FINDERS  
RADIO NAVIGATION  
RENDEZVOUS GUIDANCE  
SOLAR COMPASSES  
TRAJECTORY CONTROL

#### HOMOGENEOUS TURBULENCE

GS TURBULENCE  
HOMOGENEOUS TURBULENCE  
RT ATMOSPHERIC TURBULENCE  
FLUCTUATION THEORY  
ISOTROPIC TURBULENCE  
LOW LEVEL TURBULENCE  
MAGNETOHYDRODYNAMIC TURBULENCE

#### HONEST JOHN ROCKET VEHICLE

GS ROCKET VEHICLES

#### HONEST JOHN ROCKET VEHICLE-(CONT.)

SINGLE STAGE ROCKET VEHICLES  
HONEST JOHN ROCKET VEHICLE  
SURFACE TO SURFACE ROCKETS  
HONEST JOHN ROCKET VEHICLE  
RT ARGO ROCKET VEHICLES  
EXOS SOUNDING ROCKET  
HERCULES ENGINE  
SOLID PROPELLANT ROCKET ENGINES  
TRAILBLAZER 1 REENTRY VEHICLE

#### HORIZONTAL FLIGHT

RT AERODYNAMIC BALANCE  
AIRCRAFT STABILITY  
CLIMBING FLIGHT  
CRUISING FLIGHT  
∞ FLIGHT  
FLIGHT PATHS  
ROCKET FLIGHT  
SOARING  
TRANSITION FLIGHT  
TURNING FLIGHT

#### HORIZONTAL POLARIZED SHEAR WAVES

USE SH WAVES

#### HORIZONTAL SPACECRAFT LANDING

GS LANDING  
GLIDE LANDINGS  
HORIZONTAL SPACECRAFT LANDING  
SPACECRAFT LANDING  
RT APPROACH AND LANDING TESTS (STS)  
CRASH LANDING  
PLANETARY LANDING  
SOFT LANDING  
WATER LANDING

#### HORIZONTAL STABILIZERS

USE STABILIZERS (FLUID DYNAMICS)

#### HORIZONTAL TAIL SURFACES

UF TAIL PLANES  
GS AIRFOILS  
HORIZONTAL TAIL SURFACES  
CONTROL SURFACES  
HORIZONTAL TAIL SURFACES  
STABILIZERS (FLUID DYNAMICS)  
HORIZONTAL TAIL SURFACES  
TAIL SURFACES  
RT AERIAL RUDDERS  
ELEVATORS (CONTROL SURFACES)  
∞ SURFACES  
TAIL ASSEMBLIES  
TRAPEZOIDAL TAIL SURFACES

#### HORIZONTALLY POLARIZED SHEAR WAVES

USE SH WAVES

#### HORSESHOE VORTICES

UF HAIRPIN VORTICES  
GS VORTICES  
HORSESHOE VORTICES  
RT ABRIKOSOV THEORY  
FLOW DISTORTION  
FLOW GEOMETRY  
VORTEX FILAMENTS  
VORTEX GENERATORS  
VORTEX RINGS  
VORTICITY  
WAKES  
WING TIP VORTICES

#### HOT AIR

USE HIGH TEMPERATURE AIR

#### HOT CYCLE PROPULSION SYSTEM

USE TIP DRIVEN ROTORS

#### HOT GAS SYSTEMS

USE HIGH TEMPERATURE GASES

#### HOT GASES

USE HIGH TEMPERATURE GASES

#### HOT JET EXHAUST

USE HIGH TEMPERATURE GASES  
JET EXHAUST

#### HOT JETS

USE JET FLOW



**HOT SURFACES**

RT HEAT TRANSFER  
RAYLEIGH-BENARD CONVECTION  
∞ SURFACES

**HOT WATER ROCKET ENGINES**

GS ENGINES  
ROCKET ENGINES  
HOT WATER ROCKET ENGINES

**HOT-FILM ANEMOMETERS**

GS MEASURING INSTRUMENTS  
ANEMOMETERS  
HOT-FILM ANEMOMETERS  
RT FLOW MEASUREMENT  
METEOROLOGICAL INSTRUMENTS  
SONIC ANEMOMETERS  
VELOCITY MEASUREMENT  
WIND (METEOROLOGY)  
WIND MEASUREMENT  
WIND VANES  
WIND VELOCITY  
WIND VELOCITY MEASUREMENT

**HOT-WIRE ANEMOMETERS**

GS MEASURING INSTRUMENTS  
ANEMOMETERS  
HOT-WIRE ANEMOMETERS  
RT FLOW MEASUREMENT  
FLOWMETERS  
METEOROLOGICAL INSTRUMENTS  
VELOCITY MEASUREMENT

**HOT-WIRE FLOWMETERS**

UF HOT-WIRE TURBULENCE METERS  
GS MEASURING INSTRUMENTS  
FLOWMETERS  
HOT-WIRE FLOWMETERS  
RT PIRANI GAGES  
PLASMA ELECTRODES  
THERMAL CONDUCTIVITY  
TURBULENCE METERS

**HOT-WIRE TURBULENCE METERS**

USE HOT-WIRE FLOWMETERS  
TURBULENCE METERS

**HOTOL LAUNCH VEHICLE**

GS AEROSPACE VEHICLES  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
LAUNCH VEHICLES  
REUSABLE LAUNCH VEHICLES  
SINGLE STAGE TO ORBIT VEHICLES  
HOTOL LAUNCH VEHICLE  
MANEUVERABLE SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
MANNED SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
REENTRY VEHICLES  
RECOVERABLE SPACECRAFT  
REUSABLE SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
SOFT LANDING SPACECRAFT  
AEROSPACE PLANES  
HOTOL LAUNCH VEHICLE  
UNMANNED SPACECRAFT  
HOTOL LAUNCH VEHICLE  
RT LAUNCH VEHICLE CONFIGURATIONS  
SPACE SHUTTLES  
SPACE TRANSPORTATION  
SPACECRAFT LAUNCHING  
UK SPACE PROGRAM  
∞ VEHICLES

**HOTSHOT WIND TUNNELS**

GS TEST FACILITIES  
WIND TUNNELS  
HYPERSONIC WIND TUNNELS  
HOTSHOT WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
HOTSHOT WIND TUNNELS  
RT BLOWDOWN WIND TUNNELS  
SHOCK TUBES  
SHOCK TUNNELS

**HOUND DOG MISSILE**

GS MISSILES  
AIR TO SURFACE MISSILES  
HOUND DOG MISSILE  
RT TURBOJET ENGINES

**HOUSINGS**

GS HOUSINGS  
COWLINGS  
DOGHOUSES (ELECTRONICS)  
RADOMES  
RT ∞ CONTAINERS  
COVERINGS  
DOMES (STRUCTURAL FORMS)  
ENCLOSURE  
ENCLOSURES  
FAIRINGS  
GUARDS (SHIELDS)  
NACELLES  
PERFORATED SHELLS  
PROTECTION  
PROTECTORS  
PROTUBERANCES  
SHELLS (STRUCTURAL FORMS)  
SHIELDING  
WALLS

**HOVERCRAFT**

USE GROUND EFFECT MACHINES

**HOVERCRAFT GROUND EFFECT MACHINES**

UF HD-1 GROUND EFFECT MACHINES  
GS GROUND EFFECT MACHINES  
HOVERCRAFT GROUND EFFECT MACHINES  
RT ∞ AIRCRAFT  
RESEARCH AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT

**HOVERING**

GS MANEUVERS  
HOVERING  
RT AERODYNAMIC STABILITY  
CUSHIONCRAFT GROUND EFFECT MACHINE  
FLUTTER  
GROUND EFFECT MACHINES  
HOVERING ROCKET VEHICLES  
TRANSITION FLIGHT  
V/STOL AIRCRAFT  
VERTICAL FLIGHT  
WHIRL TOWERS

**HOVERING ROCKET VEHICLES**

GS ROCKET VEHICLES  
HOVERING ROCKET VEHICLES  
RT HOVERING  
SOFT LANDING SPACECRAFT  
∞ VEHICLES

**HOVERING STABILITY**

GS DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
AIRCRAFT STABILITY  
HOVERING STABILITY  
STABILITY  
DYNAMIC STABILITY  
MOTION STABILITY  
AIRCRAFT STABILITY  
HOVERING STABILITY  
RT ATTITUDE STABILITY  
DIRECTIONAL STABILITY  
GYROSCOPIC STABILITY  
LATERAL STABILITY  
LONGITUDINAL STABILITY  
LOW SPEED STABILITY  
WHIRL TOWERS

**HP-115 AIRCRAFT**

UF HANDLEY PAGE HP-115 AIRCRAFT  
GS HANDLEY PAGE AIRCRAFT  
HP-115 AIRCRAFT  
JET AIRCRAFT  
HP-115 AIRCRAFT  
MONOPLANES  
HP-115 AIRCRAFT  
RESEARCH AIRCRAFT  
HP-115 AIRCRAFT  
TAILLESS AIRCRAFT  
HP-115 AIRCRAFT  
RT ∞ AIRCRAFT  
WING PLANFORMS

**HRB-1 HELICOPTER**

USE CH-46 HELICOPTER

**HS-125 AIRCRAFT**

USE DH 125 AIRCRAFT

**HS-748 AIRCRAFT**

UF AVRO WHITWORTH HS-748 AIRCRAFT  
GS HAWKER SIDDELEY AIRCRAFT  
HS-748 AIRCRAFT  
JET AIRCRAFT  
TURBOPROP AIRCRAFT  
HS-748 AIRCRAFT  
MONOPLANES  
HS-748 AIRCRAFT  
PASSENGER AIRCRAFT  
HS-748 AIRCRAFT  
RT ∞ AIRCRAFT

**HS-801 AIRCRAFT**

GS HAWKER SIDDELEY AIRCRAFT  
HS-801 AIRCRAFT  
JET AIRCRAFT  
HS-801 AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
HS-801 AIRCRAFT  
RT AERIAL RECONNAISSANCE  
∞ AIRCRAFT  
OBSERVATION AIRCRAFT  
PHOTOGRAPHY  
PHOTORECONNAISSANCE

**HSS-2 HELICOPTER**

USE SH-3 HELICOPTER

**HU-1 HELICOPTER**

USE UH-1 HELICOPTER

**HUGHES AIRCRAFT**

UF HUGHES MILITARY AIRCRAFT  
GS HUGHES AIRCRAFT  
AH-64 HELICOPTER  
H-17 HELICOPTER  
OH-6 HELICOPTER  
TH-55 HELICOPTER  
XV-9A AIRCRAFT  
RT ∞ AIRCRAFT

**HUGHES MILITARY AIRCRAFT**

USE HUGHES AIRCRAFT  
MILITARY AIRCRAFT

**HULLS (STRUCTURES)**

GS HULLS (STRUCTURES)  
SHIP HULLS  
RT AIRCRAFT STRUCTURES  
BAYS (STRUCTURAL UNITS)  
BULKHEADS  
FUSELAGES  
HYDROFOILS  
KEELS  
METAL SHELLS  
PERFORATED SHELLS  
SEAPLANES  
SHELLS (STRUCTURAL FORMS)  
SKIN (STRUCTURAL MEMBER)  
STRAKES  
SWATH (SHIP)

**HUMIDITY**

RT AIR CONDITIONING  
ATMOSPHERIC DENSITY  
ATMOSPHERIC MOISTURE  
BODY TEMPERATURE  
CLIMATOLOGY  
COMFORT  
CORROSION  
DEHUMIDIFICATION  
DROP SIZE  
DRY HEAT  
ENVIRONMENTS  
HYGRAL PROPERTIES  
HYGROMETERS  
LAPSE RATE  
METEOROLOGICAL PARAMETERS  
METEOROLOGY  
MOISTURE  
MOISTURE CONTENT  
MOISTURE METERS  
PERSPIRATION  
PRECIPITATION (METEOROLOGY)  
PSYCHOLOGICAL EFFECTS  
PSYCHROMETERS  
REFRIGERATING  
TEMPERATURE  
VAPOR PRESSURE  
WATER  
WATER VAPOR  
WEATHER FORECASTING

## HUMMINGBIRD AIRCRAFT

**HUMMINGBIRD AIRCRAFT**  
USE XV-4 AIRCRAFT

**HUNTER F-2 AIRCRAFT**  
USE F-2 AIRCRAFT

**HUNTING H-126 AIRCRAFT**  
USE H-126 AIRCRAFT

**HUNTING P-84 AIRCRAFT**  
USE JET PROVOST AIRCRAFT

**HUS-1 HELICOPTER**  
USE UH-34 HELICOPTER

**HUSKIE HELICOPTER**  
USE HH-43 HELICOPTER

**HUSTLER AIRCRAFT**  
USE B-58 AIRCRAFT

**HUYGENS PRINCIPLE**  
RT DIFFRACTION  
∞ OPTICS  
POINT SOURCES  
REFRACTION  
SCATTERING  
SCHELKUNOFF PRINCIPLE  
SPHERICAL WAVES  
WAVE FRONTS  
WAVE PROPAGATION

**HU2K-1 HELICOPTER**  
USE UH-2 HELICOPTER

**HYBRID NAVIGATION SYSTEMS**  
GS NAVIGATION  
HYBRID NAVIGATION SYSTEMS  
RT NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
∞ SYSTEMS

∞ **HYBRID ROCKET ENGINES**  
SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT DUCTED ROCKET ENGINES

**HYDRAULIC ANALOGIES**  
GS ANALOGIES  
HYDRAULIC ANALOGIES  
RT COMPUTERIZED SIMULATION  
FLOW VISUALIZATION  
FLUERICS  
FLUIDICS  
GAS FLOW  
NUMERICAL FLOW VISUALIZATION  
WAVE PROPAGATION

**HYDRAULIC CONTROL**  
UF ELECTROHYDRAULIC CONTROL  
RT AUTOMATIC CONTROL  
∞ CONTROL  
ELECTRONIC CONTROL  
ENGINE CONTROL  
FLUID POWER  
FLUIDICS  
∞ HYDRAULICS  
PNEUMATIC CONTROL  
REMOTE CONTROL  
SOLENOID VALVES

**HYDRAULIC FLUIDS**  
GS LIQUIDS  
HYDRAULIC FLUIDS  
SKYDROL (TRADEMARK)  
RT FLUID PRESSURE  
FLUID TRANSMISSION LINES  
∞ FLUIDS  
HIGH TEMPERATURE FLUIDS  
∞ HYDRAULICS  
OILS  
PATCH TESTS  
TRANSMISSION FLUIDS  
WORKING FLUIDS

**HYDRAULIC JETS**  
UF WATER JETS  
GS FLUID JETS  
HYDRAULIC JETS  
RT JET FLOW

**HYDRAULIC TEST TUNNELS**  
UF WATER TUNNELS

**HYDRAULIC TEST TUNNELS—(CONT.)**  
GS TEST FACILITIES  
HYDRAULIC TEST TUNNELS  
RT ∞ TUNNELS

**HYDRAULIC VALVES**  
USE HYDRAULIC EQUIPMENT  
VALVES

∞ **HYDRAULICS**  
SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT FLUID DYNAMICS  
FLUID FLOW  
FLUID MECHANICS  
FLUID POWER  
HYDRAULIC CONTROL  
HYDRAULIC EQUIPMENT  
HYDRAULIC FLUIDS  
HYDRODYNAMIC RAM EFFECT  
HYDRODYNAMICS  
HYDROLOGY  
HYDROMECHANICS  
HYDROSTATICS  
IMPEDANCE  
INFLUENCE COEFFICIENT  
LIMNOLOGY  
∞ MECHANICS (PHYSICS)  
PIPES (TUBES)  
PNEUMATICS  
PRESSURE HEADS  
THERMOHYDRAULICS  
WATER  
WATER FLOW  
WATER PRESSURE

**HYDROAEROMECHANICS**  
USE AERODYNAMICS

**HYDROBALLISTICS**  
GS BALLISTICS  
HYDROBALLISTICS  
RT BALLISTIC RANGES  
HYDRODYNAMICS  
TORPEDOES  
UNDERWATER EXPLOSIONS  
UNDERWATER TRAJECTORIES

**HYDROCARBON COMBUSTION**  
GS COMBUSTION  
HYDROCARBON COMBUSTION  
RT EXPLOSIONS  
FUEL COMBUSTION  
OXIDATION  
PROPELLANT COMBUSTION  
SMOG

**HYDRODYNAMIC COEFFICIENTS**  
RT COMPUTATIONAL FLUID DYNAMICS  
∞ DRAG COEFFICIENTS  
FLOW DISTRIBUTION  
FLOW VELOCITY  
LIQUID FLOW  
SEA ROUGHNESS  
SHIP HULLS  
STEADY FLOW  
UNSTEADY FLOW  
WATER WAVES

**HYDRODYNAMIC EQUATIONS**  
GS EQUATIONS OF MOTION  
KINETIC EQUATIONS  
HYDRODYNAMIC EQUATIONS  
HELMHOLTZ VORTICITY EQUATION  
RT BOLTZMANN TRANSPORT EQUATION  
∞ EQUATIONS  
FLOW STABILITY  
FLOW THEORY  
FLUID MECHANICS  
GAS DYNAMICS  
HYDRODYNAMICS  
METEOROLOGY  
PLASMA DYNAMICS

**HYDRODYNAMIC STABILITY**  
USE FLOW STABILITY

**HYDRODYNAMIC TUNNELS**  
USE PLASMA JET WIND TUNNELS

**HYDRODYNAMICS**  
GS FLUID MECHANICS  
FLUID DYNAMICS

**HYDRODYNAMICS—(CONT.)**  
HYDRODYNAMICS  
ELASTOHYDRODYNAMICS  
ELECTROHYDRODYNAMICS  
MAGNETOHYDRODYNAMICS  
HYDROMECHANICS  
HYDRODYNAMICS  
ELASTOHYDRODYNAMICS  
ELECTROHYDRODYNAMICS  
MAGNETOHYDRODYNAMICS  
RT BALLAST (MASS)  
∞ DYNAMICS  
EULER EQUATIONS OF MOTION  
FLOW THEORY  
FLUID FLOW  
FLUID POWER  
GAS DYNAMICS  
∞ HYDRAULICS  
HYDROBALLISTICS  
HYDRODYNAMIC EQUATIONS  
HYDROSTATICS  
KROOK EQUATION  
LAGRANGE COORDINATES  
∞ MECHANICS (PHYSICS)  
OCEAN DYNAMICS  
PRESSURE GRADIENTS  
PRESSURE HEADS  
SEEPAGE  
SHIP HULLS  
THERMOHYDRAULICS  
WATER  
WATER FLOW  
WATER HAMMER  
WATER PRESSURE

**HYDROELASTICITY**  
GS MECHANICAL PROPERTIES  
ELASTIC PROPERTIES  
HYDROELASTICITY  
RT COMPRESSIBILITY  
COMPRESSIBLE FLUIDS  
MODULUS OF ELASTICITY  
THERMOELASTICITY  
VISCOELASTICITY

**HYDROFOIL BOATS**  
USE HYDROFOIL CRAFT

**HYDROFOIL CRAFT**  
UF HYDROFOIL BOATS  
RT CAPTURED AIR BUBBLE VEHICLES  
HYDROFOILS  
HYDROPLANES (VEHICLES)  
SHIPS

**HYDROFOIL OSCILLATIONS**  
GS OSCILLATIONS  
HYDROFOIL OSCILLATIONS  
RT FLOW STABILITY  
FLUTTER  
HYDROFOILS  
SUPERCAVITATING FLOW

**HYDROFOILS**  
GS HYDROFOILS  
KEELS  
RT AIRFOILS  
∞ BLADES  
ELEVATORS (CONTROL SURFACES)  
FINS  
∞ FOILS  
FOILS (MATERIALS)  
GUIDE VANES  
HULLS (STRUCTURES)  
HYDROFOIL CRAFT  
HYDROFOIL OSCILLATIONS  
HYDROPLANES (SURFACES)  
HYDROPLANING  
LANDING GEAR  
MARINE RUDDERS  
SHIPS  
SKIS  
STREAMLINING  
TAIL ASSEMBLIES

**HYDROGEN FUELS**  
GS FUELS  
CHEMICAL FUELS  
LIQUID FUELS  
HYDROGEN FUELS  
RT CRYOGENIC ROCKET PROPELLANTS  
DEUTERIUM  
FUEL CELLS  
FUEL PRODUCTION  
GASEOUS ROCKET PROPELLANTS

**HYDROGEN FUELS-(CONT.)**

GELLED PROPELLANTS  
HYDROCARBON FUEL PRODUCTION  
HYDROCARBON FUELS  
HYDROGEN-BASED ENERGY  
LIQUID HYDROGEN  
LIQUID ROCKET PROPELLANTS  
RAMJET ENGINES  
SLUSH HYDROGEN

**HYDROGEN SULFIDE**

GS CHALCOGENIDES  
. SULFIDES  
. INORGANIC SULFIDES  
. **HYDROGEN SULFIDE**  
HYDROGEN COMPOUNDS  
. **HYDROGEN SULFIDE**  
SULFUR COMPOUNDS  
. SULFIDES  
. INORGANIC SULFIDES  
. **HYDROGEN SULFIDE**

**HYDROGEN-BASED ENERGY**

RT  $\infty$  ENERGY  
ENERGY TECHNOLOGY  
FUEL CELLS  
GAS MIXTURES  
HYDROCARBON FUELS  
HYDROGEN FUELS  
HYDROGEN PRODUCTION  
LIQUID HYDROGEN  
NICKEL HYDROGEN BATTERIES

**HYDROGEOLOGY**

GS GEOLOGY  
. **HYDROGEOLOGY**  
HYDROLOGY  
. **HYDROGEOLOGY**  
RT AQUIFERS  
CORE SAMPLING  
EROSION  
FLOOD PLAINS  
FLOOD PREDICTIONS  
GEYSERS  
GLACIOLOGY  
HYDROLOGY MODELS  
HYDROSTATICS  
 $\infty$  SCIENCE  
SOIL EROSION  
STRATIGRAPHY  
WATERSHEDS

**HYDROKINETICS**

USE HYDROMECHANICS

**HYDROMAGNETIC FLOW**

USE MAGNETOHYDRODYNAMIC FLOW

**HYDROMAGNETIC STABILITY**

USE MAGNETOHYDRODYNAMIC STABILITY

**HYDROMAGNETIC WAVES**

USE MAGNETOHYDRODYNAMIC WAVES

**HYDROMAGNETICS**

USE MAGNETOHYDRODYNAMICS

**HYDROMAGNETISM**

USE MAGNETOHYDRODYNAMICS

**HYDROMECHANICS**

UF HYDROKINETICS  
GS FLUID MECHANICS  
. **HYDROMECHANICS**  
. HYDRODYNAMICS  
. ELASTOHYDRODYNAMICS  
. ELECTROHYDRODYNAMICS  
. MAGNETOHYDRODYNAMICS  
. HYDROSTATICS  
. MAGNETOHYDROSTATICS  
RT FLUID DYNAMICS  
FLUID FLOW  
 $\infty$  HYDRAULICS  
KINETICS  
 $\infty$  SCIENCE  
WATER

**HYDROMETERS**

GS MEASURING INSTRUMENTS  
. **HYDROMETERS**  
RT CHEMICAL ANALYSIS  
DENSITY (MASS/VOLUME)  
DENSITY MEASUREMENT  
WEIGHT MEASUREMENT

**HYDROPLANES (SURFACES)**

UF HYDROSKIS  
RT HYDROFOILS  
HYDROPLANING  
SKIS  
 $\infty$  SYSTEMS

**HYDROPLANES (VEHICLES)**

RT HYDROFOIL CRAFT  
HYDROPLANING  
 $\infty$  VEHICLES

**HYDROPLANING**

RT HYDROFOILS  
HYDROPLANES (SURFACES)  
HYDROPLANES (VEHICLES)  
SKID LANDINGS  
SKIDDING  
WATER LANDING

**HYDROSKIS**

USE HYDROPLANES (SURFACES)

**HYDROSPINNING**

GS FORMING TECHNIQUES  
. METAL SPINNING  
. **HYDROSPINNING**  
METAL WORKING  
. METAL SPINNING  
. **HYDROSPINNING**  
SPIN  
. METAL SPINNING  
. **HYDROSPINNING**

**HYDROSTATIC PRESSURE**

GS PRESSURE  
. STATIC PRESSURE  
. **HYDROSTATIC PRESSURE**  
RT CENTER OF PRESSURE  
ELEVATION  
HEAD (FLUID MECHANICS)  
HYDROSTATICS  
ISOSTATIC PRESSURE  
PRESSURE DEPENDENCE  
PRESSURE HEADS  
TRANSITION PRESSURE  
WATER PRESSURE

**HYDROTHERMAL STRESS ANALYSIS**

RT HYDROTHERMAL SYSTEMS  
HYGRAL PROPERTIES  
HYGROSCOPICITY  
MOISTURE CONTENT  
MOISTURE RESISTANCE

**HYGROMETERS**

GS MEASURING INSTRUMENTS  
. MOISTURE METERS  
. **HYGROMETERS**  
. PSYCHROMETERS  
RT CHEMICAL ANALYSIS  
DEW POINT  
HUMIDITY  
HUMIDITY MEASUREMENT  
METEOROLOGICAL INSTRUMENTS

**HYLA-STAR ROCKET VEHICLE**

GS LAUNCH VEHICLES  
. **HYLA-STAR ROCKET VEHICLE**  
ROCKET VEHICLES  
. SINGLE STAGE ROCKET VEHICLES  
. **HYLA-STAR ROCKET VEHICLE**  
RT LIQUID PROPELLANT ROCKET ENGINES  
TITAN 2 ICBM

**HYPERBOLIC DIFFERENTIAL EQUATIONS**

GS ANALYSIS (MATHEMATICS)  
. REAL VARIABLES  
. DIFFERENTIAL EQUATIONS  
. **HYPERBOLIC DIFFERENTIAL EQUATIONS**  
RT DIRICHLET PROBLEM  
 $\infty$  EQUATIONS  
ESSENTIALLY NON-OSCILLATORY SCHEMES  
WAVE EQUATIONS

**HYPERBOLIC NAVIGATION**

GS NAVIGATION  
. RADIO NAVIGATION  
. **HYPERBOLIC NAVIGATION**  
. DECCA NAVIGATION  
. LORAN NAVIGATION SYSTEM  
. LORAN

**HYPERBOLIC NAVIGATION-(CONT.)**

. . . . LORAN C  
. . . . LORAN D  
. . . . SHORAN  
RT AIR NAVIGATION  
 $\infty$  HYPERBOLIC SYSTEMS  
INERTIAL NAVIGATION  
SURFACE NAVIGATION

**HYPERBOLIC REENTRY**

GS ATMOSPHERIC ENTRY  
. REENTRY  
. **HYPERBOLIC REENTRY**  
RT REENTRY TRAJECTORIES

**HYPERION**

GS CELESTIAL BODIES  
. NATURAL SATELLITES  
. ICY SATELLITES  
. **HYPERION**  
. SATURN SATELLITES  
. **HYPERION**  
RT SATURN (PLANET)

**HYPERSONIC AIRCRAFT**

GS HYPERSONIC VEHICLES  
. **HYPERSONIC AIRCRAFT**  
. HYPERSONIC GLIDERS  
. X-20 AIRCRAFT  
RT AEROSPACE PLANES  
 $\infty$  AIRCRAFT  
BOOSTGLIDE VEHICLES  
HYPERSONICS  
JET AIRCRAFT  
 $\infty$  LOW WING AIRCRAFT  
RESEARCH AIRCRAFT  
SUPERSONIC AIRCRAFT  
SWEEPBACK TAIL SURFACES  
SWEEPBACK WINGS  
TRAPEZOIDAL TAIL SURFACES

**HYPERSONIC BOUNDARY LAYER**

GS BOUNDARY LAYERS  
. **HYPERSONIC BOUNDARY LAYER**  
RT LAMINAR BOUNDARY LAYER  
THERMAL BOUNDARY LAYER  
TURBULENT BOUNDARY LAYER

**HYPERSONIC COMBUSTION**

GS COMBUSTION  
. **HYPERSONIC COMBUSTION**  
RT EROSION BURNING  
FUEL COMBUSTION

**HYPERSONIC FLIGHT**

RT AERODYNAMICS  
 $\infty$  FLIGHT  
HYPERSONICS  
MISSILES  
ROCKET FLIGHT  
SUPERSONIC FLIGHT  
WAVERIDERS

**HYPERSONIC FLOW**

GS FLUID FLOW  
. **HYPERSONIC FLOW**  
RT AERODYNAMICS  
CASCADE WIND TUNNELS  
COMPRESSIBLE FLOW  
FLOW VELOCITY  
GAS FLOW  
HYPERSONICS  
HYPERVELOCITY WIND TUNNELS  
LIGHTHILL GAS MODEL  
SHOCK TUBES  
SHOCK TUNNELS  
SHOCK WAVES  
SUPERSONIC FLOW  
WIND TUNNELS

**HYPERSONIC FORCES**

GS AERODYNAMIC FORCES  
. **HYPERSONIC FORCES**  
RT AERODYNAMIC DRAG  
HYPERSONICS  
LIFT

**HYPERSONIC GLIDERS**

GS GLIDERS  
. **HYPERSONIC GLIDERS**  
. X-20 AIRCRAFT  
HYPERSONIC VEHICLES  
HYPERSONIC AIRCRAFT  
. **HYPERSONIC GLIDERS**

## **HYPERSONIC HEAT TRANSFER**

### **HYPERSONIC GLIDERS-(CONT.)**

RT . . . X-20 AIRCRAFT  
AEROSPACE PLANES  
∞ AIRCRAFT  
ASSET GLIDERS  
BOOSTGLIDE VEHICLES  
HL-10 REENTRY VEHICLE  
HLD-35 REENTRY VEHICLE  
LIFTING REENTRY VEHICLES  
PARAGLIDERS

### **HYPERSONIC HEAT TRANSFER**

GS TRANSMISSION  
. HEAT TRANSMISSION  
. HEAT TRANSFER  
. . . AERODYNAMIC HEAT TRANSFER  
. . . . **HYPERSONIC HEAT TRANSFER**  
RT AEROTHERMODYNAMICS  
HYPERSONICS  
SUPERSONIC HEAT TRANSFER

### **HYPERSONIC INLETS**

GS INTAKE SYSTEMS  
. AIR INTAKES  
. . . **HYPERSONIC INLETS**  
RT BYPASS RATIO  
∞ DIFFUSERS  
ENGINE INLETS  
INLET AIRFRAME CONFIGURATIONS  
NOSE INLETS  
SIDE INLETS  
SUPERSONIC INLETS

### **HYPERSONIC NOZZLES**

RT CONICAL NOZZLES  
∞ NOZZLES  
ROCKET NOZZLES  
SUPERSONIC NOZZLES  
TRANSONIC NOZZLES  
WIND TUNNEL NOZZLES

### **HYPERSONIC REENTRY**

GS ATMOSPHERIC ENTRY  
. REENTRY  
. . . **HYPERSONIC REENTRY**  
. . . UNCONTROLLED REENTRY  
(SPACECRAFT)  
RT AERODYNAMIC HEATING  
AEROTHERMODYNAMICS  
BERENICE ROCKET VEHICLE  
BOUNDARY LAYER PLASMAS  
ENTRY GUIDANCE (STS)  
REENTRY EFFECTS  
REENTRY PHYSICS  
SPACECRAFT REENTRY

### **HYPERSONIC SHOCK**

RT HYPERSONICS  
MACH CONES  
NOISE (SOUND)  
SHOCK WAVES

### **HYPERSONIC SPEED**

SN (MACH 5 OR GREATER)  
GS RATES (PER TIME)  
. **HYPERSONIC SPEED**  
VELOCITY  
. **HYPERSONIC SPEED**  
RT HIGH SPEED  
HYPERSONICS  
∞ HYPERVELOCITY  
SUPERSONIC SPEED

### **HYPERSONIC TEST APPARATUS**

RT HYPERSONICS  
HYPERVELOCITY WIND TUNNELS  
MISSILE RANGES  
SUPERSONIC TEST APPARATUS  
∞ TEST EQUIPMENT

### **HYPERSONIC VEHICLES**

GS **HYPERSONIC VEHICLES**  
. HYPERSONIC AIRCRAFT  
. . . HYPERSONIC GLIDERS  
. . . X-20 AIRCRAFT  
. . . X-30 VEHICLE  
RT ∞ FLIGHT VEHICLES  
HYPERSONICS  
∞ INSULATED STRUCTURES  
NATIONAL AEROSPACE PLANE  
PROGRAM  
RECOVERABLE SPACECRAFT  
REENTRY VEHICLES  
∞ SPACECRAFT  
TEST VEHICLES

### **HYPERSONIC VEHICLES-(CONT.)**

∞ VEHICLES  
WAVERIDERS  
∞ WINGED VEHICLES

### **HYPERSONIC WAKES**

GS WAKES  
. **HYPERSONIC WAKES**  
RT AIRCRAFT WAKES  
BOW WAVES  
HYPERSONICS  
SHOCK WAVES  
SUPERSONIC WAKES

### **HYPERSONIC WIND TUNNELS**

GS TEST FACILITIES  
. WIND TUNNELS  
. . . **HYPERSONIC WIND TUNNELS**  
. . . CASCADE WIND TUNNELS  
. . . HOTSHOT WIND TUNNELS  
. . . PLASMA JET WIND TUNNELS  
. . . SHOCK TUNNELS  
RT BLOWDOWN WIND TUNNELS  
COMBUSTION WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
LOW DENSITY WIND TUNNELS  
MAGNETIC PISTONS  
SHOCK TUBES  
SUBSONIC WIND TUNNELS  
SUPERSONIC WIND TUNNELS  
TRANSONIC WIND TUNNELS

### **HYPERSONICS**

GS FLUID MECHANICS  
. FLUID DYNAMICS  
. . . GAS DYNAMICS  
. . . AERODYNAMICS  
. . . . **HYPERSONICS**  
RT AEROTHERMODYNAMICS  
HYPERSONIC AIRCRAFT  
HYPERSONIC FLIGHT  
HYPERSONIC FLOW  
HYPERSONIC FORCES  
HYPERSONIC HEAT TRANSFER  
HYPERSONIC SHOCK  
HYPERSONIC SPEED  
HYPERSONIC TEST APPARATUS  
HYPERSONIC VEHICLES  
HYPERSONIC WAKES  
SUPERSONIC SPEED  
SUPERSONICS

### **HYPERVELOCITY CRATERING**

USE HYPERVELOCITY PROJECTILES  
PROJECTILE CRATERING

### **HYPERVELOCITY FLOW**

GS FLUID FLOW  
. **HYPERVELOCITY FLOW**  
RT FLOW VELOCITY  
SUPERSONIC FLOW

### **HYPERVELOCITY LAUNCHERS**

GS LAUNCHERS  
. **HYPERVELOCITY LAUNCHERS**  
RT GUN LAUNCHERS  
RAILGUN ACCELERATORS

### **HYPERVELOCITY PROJECTILES**

UF HYPERVELOCITY CRATERING  
GS PROJECTILES  
. **HYPERVELOCITY PROJECTILES**  
RT ∞ BOMBARDMENT  
LIGHT GAS GUNS  
METEORIODS  
MICROMETEORITES  
PROJECTILE CRATERING  
SIMULATION

### **HYPERVELOCITY WIND TUNNELS**

SN (ABOVE MACH 10)  
GS TEST FACILITIES  
. WIND TUNNELS  
. . . **HYPERVELOCITY WIND TUNNELS**  
. . . CASCADE WIND TUNNELS  
. . . HOTSHOT WIND TUNNELS  
. . . PLASMA JET WIND TUNNELS  
. . . SHOCK TUNNELS  
RT BLOWDOWN WIND TUNNELS  
COMBUSTION WIND TUNNELS  
HYPERSONIC FLOW  
HYPERSONIC TEST APPARATUS  
HYPERSONIC WIND TUNNELS  
LOW DENSITY WIND TUNNELS  
MAGNETIC PISTONS

### **HYPERVELOCITY WIND TUNNELS-(CONT.)**

SHOCK TUBES  
SUPERSONIC WIND TUNNELS

### **HYPOBARIC ATMOSPHERES**

RT ALTITUDE SIMULATION  
ALTITUDE TOLERANCE  
∞ ATMOSPHERES  
HIGH ALTITUDE BREATHING  
HIGH ALTITUDE ENVIRONMENTS  
HIGH ALTITUDE PRESSURE  
LOW PRESSURE  
VACUUM TESTS

### **HYPSONETERS**

GS MEASURING INSTRUMENTS  
. **HYPSONETERS**  
RT ALTIMETERS  
BAROMETERS  
METEOROLOGICAL INSTRUMENTS  
PRESSURE GAGES

### **ICBM (MISSILES)**

USE INTERCONTINENTAL BALLISTIC MISSILES

### **ICE PREVENTION**

GS PREVENTION  
. **ICE PREVENTION**  
RT ANTIICING ADDITIVES  
DEFROSTING  
DEICERS  
DEICING  
HEAT TAPES  
HEATING  
MELTING  
STORM SUPPRESSION

### **IDENTIFYING**

GS **IDENTIFYING**  
. CROP IDENTIFICATION  
. IFF SYSTEMS (IDENTIFICATION)  
. PARAMETER IDENTIFICATION  
. RAPID BALLISTICS IDENTIFICATION  
. SYSTEM IDENTIFICATION  
. TIMBER IDENTIFICATION  
RT CHEMICAL ANALYSIS  
CODING  
COGNITION  
DETECTION  
GAS DETECTORS  
INSPECTION  
MARKING  
∞ MEASUREMENT  
MISSILE DETECTION  
PARTICULATE SAMPLING  
PERCEPTION  
RECOGNITION  
SPECTRAL SIGNATURES  
TRACKING (POSITION)  
ULTRASONIC FLAW DETECTION  
WISWESSER NOTATIONS

### **IFR (RULES)**

USE INSTRUMENT FLIGHT RULES

### **IGNITERS**

GS **IGNITERS**  
. INITIATORS (EXPLOSIVES)  
. BOOSTERS (EXPLOSIVES)  
. CAPS (EXPLOSIVES)  
. DETONATORS  
. EXPLODING WIRES  
. PRIMERS (EXPLOSIVES)  
. SQUIBS  
RT AMMUNITION  
ELECTRIC IGNITION  
EXPLOSIVE DEVICES  
IGNITION  
IGNITION SYSTEMS  
INCENDIARY AMMUNITION  
PYROPHORIC MATERIALS  
SOLID PROPELLANT IGNITION  
SPARK PLUGS

### **IGNITION**

UF REIGNITION  
GS **IGNITION**  
. ELECTRIC IGNITION  
. SOLID PROPELLANT IGNITION

# IGNITION-(CONT.)

RT . SPARK IGNITION  
COMBUSTION  
COMBUSTION PHYSICS  
FIRING (IGNITING)  
FLAME PROPAGATION  
FLAMMABILITY  
FLASH POINT  
FUEL COMBUSTION  
IGNITERS  
PREMIXING  
PROPELLANT COMBUSTION  
ROASTING  
SPARKS  
SPONTANEOUS COMBUSTION  
STARTING

## IGNITION LIMITS

RT COMBUSTION  
FLAME RETARDANTS  
FLAMMABILITY  
FUEL-AIR RATIO  
GAS MIXTURES  
∞ LIMITS

## IGNITION SYSTEMS

RT AUTOMOBILES  
DISTRIBUTORS  
DWELL  
ELECTRIC COILS  
ELECTRIC IGNITION  
ENGINES  
IGNITERS  
INTERNAL COMBUSTION ENGINES  
ROCKET ENGINES  
SPARK PLUGS  
SQUIBS  
STARTERS  
∞ SYSTEMS

## IGNITION TEMPERATURE

GS TEMPERATURE  
. IGNITION TEMPERATURE  
. FLASH POINT  
RT COMBUSTION TEMPERATURE  
FLAMMABILITY  
PROPELLANT SENSITIVITY  
PYROPHORIC MATERIALS  
SOLID PROPELLANT IGNITION  
SPONTANEOUS COMBUSTION  
THERMITES

## IL-14 AIRCRAFT

UF ILYUSHIN IL-14 AIRCRAFT  
GS ILYUSHIN AIRCRAFT  
. IL-14 AIRCRAFT  
MONOPLANES  
. IL-14 AIRCRAFT  
TRANSPORT AIRCRAFT  
. IL-14 AIRCRAFT  
RT ∞ AIRCRAFT

## IL-62 AIRCRAFT

UF CLASSIC AIRCRAFT  
ILYUSHIN IL-62 AIRCRAFT  
GS COMMERCIAL AIRCRAFT  
. IL-62 AIRCRAFT  
ILYUSHIN AIRCRAFT  
. IL-62 AIRCRAFT  
JET AIRCRAFT  
. TURBOFAN AIRCRAFT  
. IL-62 AIRCRAFT  
MONOPLANES  
. IL-62 AIRCRAFT  
PASSENGER AIRCRAFT  
. IL-62 AIRCRAFT  
RT ∞ AIRCRAFT

## ILS (LANDING SYSTEMS)

USE INSTRUMENT LANDING SYSTEMS

## ILYUSHIN AIRCRAFT

GS ILYUSHIN AIRCRAFT  
. IL-14 AIRCRAFT  
. IL-62 AIRCRAFT  
RT ∞ AIRCRAFT

## ILYUSHIN IL-14 AIRCRAFT

USE IL-14 AIRCRAFT

## ILYUSHIN IL-62 AIRCRAFT

USE IL-62 AIRCRAFT

# IMAGING TECHNIQUES

GS IMAGING TECHNIQUES  
. RASTER SCANNING  
RT . SPECKLE HOLOGRAPHY  
ACOUSTIC MICROSCOPES  
ACOUSTICAL HOLOGRAPHY  
ADAPTIVE OPTICS  
CHARGE INJECTION DEVICES  
CROP IDENTIFICATION  
GRAY SCALE  
HIGH DEFINITION TELEVISION  
HOLOGRAMMETRY  
IMAGE CORRELATORS  
IMAGE ENHANCEMENT  
IMAGE FILTERS  
IMAGE INTENSIFIERS  
IMAGE MOTION COMPENSATION  
IMAGE PROCESSING  
IMAGE RECONSTRUCTION  
IMAGE ROTATION  
IMAGE TRANSDUCERS  
IMAGE VELOCITY SENSORS  
IMAGING SPECTROMETERS  
∞ METHODOLOGY  
MICROWAVE HOLOGRAPHY  
MODULATION TRANSFER FUNCTION  
MULTISENSOR APPLICATIONS  
MULTISPECTRAL BAND SCANNERS  
MULTISPECTRAL PHOTOGRAPHY  
MULTISPECTRAL RADAR  
OPTICAL RELAY SYSTEMS  
OPTICAL TRANSFER FUNCTION  
∞ OPTICS  
PATTERN REGISTRATION  
PHOTOGRAPHY  
PIXELS  
PRINCIPAL COMPONENTS ANALYSIS  
RADAR IMAGERY  
RAPID BALLISTICS IDENTIFICATION  
RESOLUTION CELL  
SATELLITE IMAGERY  
SCENE ANALYSIS  
SPATIAL RESOLUTION  
STREAK PHOTOGRAPHY  
SYNTHETIC APERTURES  
TELEVISION SYSTEMS  
ULTRASONIC SCANNERS  
VEGETATIVE INDEX  
X RAY IMAGERY

## IMMERSION

USE SUBMERGING

## IMPACT

GS IMPACT  
. ECONOMIC IMPACT  
. ELECTRON IMPACT  
. HYPERVELOCITY IMPACT  
. ION IMPACT  
. POINT IMPACT  
. PROTON IMPACT  
RT DECELERATION  
HYDRODYNAMIC RAM EFFECT  
IMPINGEMENT  
MECHANICAL SHOCK  
PENETRATION  
PERCUSSION  
PRESSURE  
SHOCK ABSORBERS  
SHOCK RESISTANCE  
SHOCK WAVES  
STRESSES

## IMPACT ACCELERATION

UF IMPACT DECELERATION  
GS RATES (PER TIME)  
. ACCELERATION (PHYSICS)  
. IMPACT ACCELERATION  
RT ∞ ACCELERATION  
DECELERATION  
MECHANICAL SHOCK  
PHYSIOLOGICAL ACCELERATION  
RAILROAD HUMMING TESTS  
SHOCK ABSORBERS

## IMPACT DECELERATION

USE DECELERATION  
IMPACT ACCELERATION

## IMPACT TESTING MACHINES

RT DROP TESTS  
FATIGUE TESTS  
∞ MACHINERY  
∞ TEST EQUIPMENT

# IMPACT TESTS

GS IMPACT TESTS  
. CHARPY IMPACT TEST  
RT BRITTLENESS  
COMPRESSION TESTS  
DESTRUCTIVE TESTS  
DROP TESTS  
FATIGUE TESTS  
HARDNESS TESTS  
IMPACTORS  
LOAD TESTS  
∞ MATERIALS TESTS  
. NOTCH SENSITIVITY  
. NOTCH STRENGTH  
. NOTCH TESTS  
SHOCK TESTS  
STRAIN RATE  
STRESS CONCENTRATION  
∞ TESTS  
TOUGHNESS

## IMPEDANCE

UF DUMMY LOADS  
GS IMPEDANCE  
. ACOUSTIC IMPEDANCE  
. ELECTRICAL IMPEDANCE  
. ELECTRICAL RESISTANCE  
. CONTACT RESISTANCE  
. SKIN RESISTANCE  
. TRANSDUCANCE  
. REACTANCE  
. MECHANICAL IMPEDANCE  
. RESPIRATORY IMPEDANCE  
RT ATTENUATION COEFFICIENTS  
BANDWIDTH  
CHOKES (RESTRICTIONS)  
∞ CONDUCTIVITY  
CONSTRICTIONS  
DAMPING  
DIFFUSIVITY  
DYNAMIC CHARACTERISTICS  
DYNAMIC RESPONSE  
ELECTRIC COILS  
ELECTRICAL PROPERTIES  
∞ HYDRAULICS  
MECHANICAL PROPERTIES  
∞ PHYSICAL PROPERTIES  
∞ RESISTANCE  
RESONANT FREQUENCIES  
SMITH CHART  
TIME CONSTANT  
TRANSIENT RESPONSE

## IMPEDANCE MEASUREMENT

RT ELECTRICAL IMPEDANCE  
ELECTRICAL MEASUREMENT  
MECHANICAL IMPEDANCE  
MISMATCH (ELECTRICAL)  
RADIO FREQUENCY IMPEDANCE  
PROBES

## IMPEDANCE PROBES

GS MEASURING INSTRUMENTS  
. IMPEDANCE PROBES  
. RADIO FREQUENCY IMPEDANCE  
PROBES  
RT RESONANCE PROBES

## IMPELLERS

GS ROTATING BODIES  
. ROTORS  
. IMPELLERS  
. PUMP IMPELLERS  
RT BLOWERS  
CENTRIFUGAL COMPRESSORS  
CENTRIFUGAL PUMPS  
COMPRESSOR ROTORS  
PUMPS  
ROTOR BLADES (TURBOMACHINERY)  
STATORS  
TURBINE WHEELS  
TURBINES  
TURBOMACHINE BLADES  
VANES

## IMPINGEMENT

GS IMPINGEMENT  
. JET IMPINGEMENT  
RT ABLATION  
ATTENUATION  
CAVITATION FLOW  
CORROSION  
EROSION  
GAS-SOLID INTERACTIONS  
IMPACT

## INCENDIARY AMMUNITION

### IMPINGEMENT-(CONT.)

INCIDENCE  
REFLECTION  
SCATTERING

### INCENDIARY AMMUNITION

GS AMMUNITION  
  . INCENDIARY AMMUNITION  
RT BOMBS (ORDNANCE)  
  COMBUSTION  
  EXOTHERMIC REACTIONS  
  GRENADES  
  GUNS (ORDNANCE)  
  IGNITERS  
  MISSILES  
  PROJECTILES  
  PROPELLANTS  
  PYROTECHNICS  
  ROCKETS

### INCINERATION

USE INCINERATORS

### INCINERATORS

UF INCINERATION  
RT BURNERS  
  FURNACES  
  WASTE DISPOSAL  
  WASTE ENERGY UTILIZATION

### INCOMPRESSIBILITY

RT COMPRESSIBILITY  
  FLUID MECHANICS

### INCOMPRESSIBLE BOUNDARY LAYER

GS BOUNDARY LAYERS  
  . INCOMPRESSIBLE BOUNDARY LAYER  
RT LAMINAR BOUNDARY LAYER  
  TURBULENT BOUNDARY LAYER

### INCOMPRESSIBLE FLOW

GS FLUID FLOW  
  . INCOMPRESSIBLE FLOW  
  . STOKES FLOW  
RT AERODYNAMICS  
  BELTRAMI FLOW  
  COMPRESSIBLE FLOW  
  GAS FLOW  
  MILNE-THOMSON METHOD  
  NAVIER-STOKES EQUATION  
  REYNOLDS STRESS  
  STREAM FUNCTIONS (FLUIDS)  
  SUBSONIC FLOW

### INCOMPRESSIBLE FLUIDS

GS INCOMPRESSIBLE FLUIDS  
  . MICROPOLAR FLUIDS  
RT BOUSSINESQ APPROXIMATION  
  CHANNEL FLOW  
  COMPRESSIBLE FLUIDS  
  FLUID POWER  
  FLUIDS  
  IDEAL FLUIDS  
  NAVIER-STOKES EQUATION  
  OSEEN APPROXIMATION  
  SUPERFLUIDITY

### INDICATING INSTRUMENTS

UF TEMPERATURE INDICATORS  
GS MEASURING INSTRUMENTS  
  . INDICATING INSTRUMENTS  
  . APPROACH INDICATORS  
  . ASTROLABES  
  . ATTITUDE INDICATORS  
  . GYRO HORIZONS  
  . CLOUD HEIGHT INDICATORS  
  . COMPASSES  
  . GYROCOMPASSES  
  . MAGNETIC COMPASSES  
  . SOLAR COMPASSES  
  . FLOW DIRECTION INDICATORS  
  . WIND VANES  
  . POSITION INDICATORS  
  . PLAN POSITION INDICATORS  
  . RADIO DIRECTION FINDERS  
  . SPACECRAFT POSITION INDICATORS  
  . SMOKE DETECTORS  
  . SPEED INDICATORS  
  . TACHOMETERS  
  . WEIGHT INDICATORS  
  . MICROBALANCES  
  . STRAIN GAGE BALANCES  
  . THERMOBALANCES  
RT AIRCRAFT INSTRUMENTS

### INDICATING INSTRUMENTS-(CONT.)

CONTROL MOMENT GYROSCOPES  
  DETECTORS  
  DIALS  
  DISPLAY DEVICES  
  GAS DETECTORS  
  HEAD-UP DISPLAYS  
  HELMET MOUNTED DISPLAYS  
  INDICATION  
  INDICATORS  
  INSTRUMENT RECEIVERS  
  INSTRUMENTS  
  RADARSCOPES  
  RECORDING INSTRUMENTS  
  THERMOCOUPLES  
  THERMOPILES  
  INDICATORS  
  SN (USE OF A MORE SPECIFIC TERM IS  
    RECOMMENDED--CONSULT THE TERMS  
    LISTED BELOW)  
  RT AIRCRAFT GUIDANCE  
  CHEMICAL INDICATORS  
  INDICATING INSTRUMENTS  
  METHYLENE BLUE  
  RATE OF CLIMB INDICATORS

### INDUCED FLUID FLOW

USE FLUID FLOW

### INDUCTION HEATING

GS HEATING  
  . INDUCTION HEATING  
RT FURNACES  
  MAGNETIC INDUCTION  
  MAGNETIC PUMPING  
  MELTING  
  PLASMA HEATING  
  RADIO FREQUENCY HEATING  
  VACUUM MELTING

### INERTIA

UF INERTIAL FORCES  
GS INERTIA  
  . INERTIA PRINCIPLE  
  . MACH INERTIA PRINCIPLE  
RT FORCE  
  FROUDE NUMBER  
  MASS  
  MOMENTS OF INERTIA  
  MOTION  
  SIMILITUDE LAW

### INERTIA WHEELS

USE COUNTER-ROTATING WHEELS  
  REACTION WHEELS

### INERTIAL FORCES

USE INERTIA

### INERTIAL GUIDANCE

GS GUIDANCE (MOTION)  
  . INERTIAL GUIDANCE  
  . STRAPDOWN INERTIAL GUIDANCE  
RT INJECTION GUIDANCE  
  MIDCOURSE GUIDANCE  
  REENTRY GUIDANCE  
  SATELLITE GUIDANCE  
  SPACECRAFT GUIDANCE  
  STABILIZED PLATFORMS  
  TERMINAL GUIDANCE

### INERTIAL MEASURING UNITS

USE INERTIAL PLATFORMS

### INERTIAL NAVIGATION

GS NAVIGATION  
  . INERTIAL NAVIGATION  
  . ASTROGUIDE NAVIGATION SYSTEM  
  . GIMBALLESS INERTIAL NAVIGATION  
RT AIR NAVIGATION  
  ALL-WEATHER AIR NAVIGATION  
  CELESTIAL NAVIGATION  
  DEAD RECKONING  
  DIGITAL NAVIGATION  
  HYPERBOLIC NAVIGATION  
  NAVIGATION AIDS  
  POLAR NAVIGATION  
  RADAR NAVIGATION  
  RADIO NAVIGATION  
  SCHULER TUNING  
  SPACE NAVIGATION  
  STAR TRACKERS  
  STRAPDOWN INERTIAL GUIDANCE

### INERTIAL NAVIGATION-(CONT.)

SURFACE NAVIGATION

### INERTIAL PLATFORMS

UF INERTIAL MEASURING UNITS  
RT GIMBALLESS INERTIAL NAVIGATION  
  GYROSCOPIC STABILITY  
  KALMAN-SCHMIDT FILTERING  
  NAVIGATION INSTRUMENTS  
  PLATFORMS  
  THREE AXIS STABILIZATION

### INERTIAL REFERENCE SYSTEMS

RT CELESTIAL REFERENCE SYSTEMS  
  REFERENCE SYSTEMS  
  RELATIVITY  
  SYSTEMS

### INERTIAL UPPER STAGE

UF INTERIM UPPER STAGE (STS)  
  IUS  
GS INTERIM STAGES (SPACECRAFT)  
  . INERTIAL UPPER STAGE  
RT ORBIT TRANSFER VEHICLES  
  RECOVERABLE SPACECRAFT  
  REUSABLE SPACECRAFT  
  SPACE SHUTTLE ORBITERS  
  SPACE SHUTTLES  
  SPACE TRANSPORTATION  
  SPACE TRANSPORTATION SYSTEM  
  SPACE TUGS  
  ULYSSES MISSION  
  UPPER STAGE ROCKET ENGINES

### INFINITE SPAN WINGS

GS AIRFOILS  
  . THIN AIRFOILS  
  . THIN WINGS  
  . INFINITE SPAN WINGS  
  . WINGS  
  . SLENDER WINGS  
  . INFINITE SPAN WINGS  
  . THIN WINGS  
  . INFINITE SPAN WINGS  
  . UNSWEPT WINGS  
  . INFINITE SPAN WINGS  
  PLANFORMS  
  . WING PLANFORMS  
  . INFINITE SPAN WINGS  
RT FLEXIBLE WINGS

### INFLATABLE DEVICES

USE INFLATABLE STRUCTURES

### INFLATABLE GLIDERS

GS EXPANDABLE STRUCTURES  
  . INFLATABLE STRUCTURES  
  . INFLATABLE GLIDERS  
  GLIDERS  
  . PARAGLIDERS  
  . INFLATABLE GLIDERS  
RT AIRCRAFT

### INFLATABLE SPACECRAFT

GS EXPANDABLE STRUCTURES  
  . INFLATABLE STRUCTURES  
  . INFLATABLE SPACECRAFT  
  . BEACON SATELLITES  
  . BEACON EXPLORER A  
  . EXPLORER 22 SATELLITE  
  SPACE ERECTABLE STRUCTURES  
  . INFLATABLE SPACECRAFT  
  . BEACON SATELLITES  
  . BEACON EXPLORER A  
  . EXPLORER 22 SATELLITE  
RT ARTIFICIAL SATELLITES  
  ORBITAL ASSEMBLY  
  SELF ERECTING DEVICES  
  SPACECRAFT  
  UNMANNED SPACECRAFT

### INFLATABLE STRUCTURES

UF DEFLATING  
  INFLATABLE DEVICES  
GS EXPANDABLE STRUCTURES  
  . INFLATABLE STRUCTURES  
  . AIR BAG RESTRAINT DEVICES  
  . BALLOONS  
  . HIGH ALTITUDE BALLOONS  
  . JIMSPHERE BALLOONS  
  . SKYHOOK BALLOONS  
  . SUPERPRESSURE BALLOONS  
  . METEOROLOGICAL BALLOONS  
  . JIMSPHERE BALLOONS  
  . ROBIN BALLOONS

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**INFLATABLE STRUCTURES-(CONT.)**

... MICROBALLOONS  
 ... TETHERED BALLOONS  
 ... BALLUTES  
 ... GAS BAGS  
 ... INFLATABLE GLIDERS  
 ... INFLATABLE SPACECRAFT  
 ... BEACON SATELLITES  
 ... BEACON EXPLORER A  
 ... EXPLORER 22 SATELLITE  
 ... PARAVULCOONS  
 RT AIRSHIPS  
 BOATS  
 BUILDINGS  
 FLEXIBLE BODIES  
 FLEXIBLE WINGS  
 FLOATS  
 FOLDING STRUCTURES  
 INFLATING  
 LIFE RAFTS  
 LUNAR SHELTERS  
 PNEUMATIC EQUIPMENT  
 PRESSURE SUITS  
 RADOMES  
 SELF ERECTING DEVICES  
 SPACE ERECTABLE STRUCTURES  
 SPACE STATIONS  
 ∞ STRUCTURES  
 TIRES  
 VARIABLE GEOMETRY STRUCTURES

**INFLATING**

SN (EXCLUDES ECONOMIC INFLATION)  
 RT EXPANSION  
 GAS INJECTION  
 GROWTH  
 INFLATABLE STRUCTURES  
 PRESSURE REDUCTION  
 PRESSURIZING  
 SWELLING

**INFLUENCE COEFFICIENT**

GS COEFFICIENTS  
 . INFLUENCE COEFFICIENT  
 . STRUCTURAL INFLUENCE  
 COEFFICIENTS  
 RT AEROELASTICITY  
 DISCHARGE COEFFICIENT  
 ELASTIC PROPERTIES  
 FLUTTER  
 FORCE DISTRIBUTION  
 ∞ HYDRAULICS  
 MOMENT DISTRIBUTION  
 NOZZLE THRUST COEFFICIENTS  
 PLASTIC PROPERTIES  
 PRESSURE DISTRIBUTION  
 STRESS ANALYSIS  
 STRUCTURAL ANALYSIS

**INFRARED DETECTORS**

GS MEASURING INSTRUMENTS  
 . RADIATION MEASURING INSTRUMENTS  
 . ACTINOMETERS  
 . RADIOMETERS  
 . . . INFRARED DETECTORS  
 . . . INFRARED RADIOMETERS  
 . . . INFRARED INSTRUMENTS  
 . . . INFRARED DETECTORS  
 . . . FLIR DETECTORS  
 . . . INFRARED RADIOMETERS  
 RT BOLOMETERS  
 ∞ DETECTORS  
 ELECTROMAGNETIC MEASUREMENT  
 FOCAL PLANE DEVICES  
 FOREST FIRE DETECTION  
 INFRARED SIGNATURES  
 MERCURY CADMIUM TELLURIDES

**INFRARED IMAGERY**

GS IMAGERY  
 . INFRARED IMAGERY  
 PHOTOGRAPHY  
 . INFRARED IMAGERY  
 RT COLOR INFRARED PHOTOGRAPHY  
 LUNAR EQUATOR  
 THERMOGRAPHY  
 X RAY IMAGERY

**INFRARED INSTRUMENTS**

GS MEASURING INSTRUMENTS  
 . RADIATION MEASURING INSTRUMENTS  
 . . INFRARED INSTRUMENTS  
 . . . INFRARED DETECTORS  
 . . . FLIR DETECTORS  
 . . . INFRARED RADIOMETERS

**INFRARED INSTRUMENTS-(CONT.)**

... INFRARED SCANNERS  
 ... INFRARED SPECTROMETERS  
 ... INFRARED SPECTROPHOTOMETERS  
 RT ADVANCED VERY HIGH RESOLUTION  
 RADIOMETER  
 FOREST FIRE DETECTION

**INFRARED INTERFEROMETERS**

GS MEASURING INSTRUMENTS  
 . INTERFEROMETERS  
 . . INFRARED INTERFEROMETERS  
 RT INTERFEROMETRY  
 OPTICAL EQUIPMENT  
 OPTICAL MEASUREMENT  
 OPTICAL MEASURING INSTRUMENTS  
 SPECKLE INTERFEROMETRY

**INFRARED PHOTOGRAPHY**

GS IMAGERY  
 . INFRARED PHOTOGRAPHY  
 . . COLOR INFRARED PHOTOGRAPHY  
 PHOTOGRAPHY  
 . MULTISPECTRAL PHOTOGRAPHY  
 . . INFRARED PHOTOGRAPHY  
 . . . COLOR INFRARED PHOTOGRAPHY  
 RT AERIAL PHOTOGRAPHY  
 ASTRONOMICAL PHOTOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 CINEMATOGRAPHY  
 FAINT OBJECT CAMERA  
 FOREST FIRE DETECTION  
 GEOGRAPHIC INFORMATION SYSTEMS  
 ICE MAPPING  
 LUNAR PHOTOGRAPHY  
 METEOROLOGICAL SATELLITES  
 METEOSAT SATELLITE  
 MULTISPECTRAL BAND CAMERAS  
 NIMBUS SATELLITES  
 RADIOMETERS  
 SATELLITE-BORNE PHOTOGRAPHY  
 TIMBER INVENTORY  
 ULTRAVIOLET PHOTOGRAPHY

**INFRARED PHOTOMETRY**

GS OPTICAL MEASUREMENT  
 . PHOTOMETRY  
 . . INFRARED PHOTOMETRY  
 RT ASTRONOMICAL PHOTOMETRY  
 INFRARED ASTRONOMY  
 INFRARED SPECTRA  
 NEAR INFRARED RADIATION  
 STELLAR SPECTROPHOTOMETRY

**INFRARED RADIOMETERS**

GS MEASURING INSTRUMENTS  
 . RADIATION MEASURING INSTRUMENTS  
 . . ACTINOMETERS  
 . . RADIOMETERS  
 . . . INFRARED DETECTORS  
 . . . INFRARED RADIOMETERS  
 . . . INFRARED INSTRUMENTS  
 . . . INFRARED DETECTORS  
 . . . INFRARED RADIOMETERS  
 RT AERIAL RECONNAISSANCE  
 ATMOSPHERIC CORRECTION  
 DATA ACQUISITION  
 EARTH RESOURCES PROGRAM  
 ENVIRONMENTAL MONITORING  
 FOREST FIRE DETECTION  
 PRESSURE MODULATOR RADIOMETERS  
 RADIOMETRIC CORRECTION  
 SATELLITE-BORNE INSTRUMENTS  
 THERMAL MAPPING  
 VISIBLE INFRARED SPIN SCAN  
 RADIOMETER

**INFRARED SPECTROMETERS**

GS MEASURING INSTRUMENTS  
 . OPTICAL MEASURING INSTRUMENTS  
 . . INFRARED SPECTROMETERS  
 . . . FILTER WHEEL INFRARED  
 SPECTROMETERS  
 . RADIATION MEASURING INSTRUMENTS  
 . . ACTINOMETERS  
 . . . INFRARED SPECTROMETERS  
 . . . INFRARED INSTRUMENTS  
 . . . INFRARED SPECTROMETERS  
 . SPECTROMETERS  
 . . INFRARED SPECTROMETERS  
 . . . FILTER WHEEL INFRARED  
 SPECTROMETERS  
 OPTICAL EQUIPMENT  
 . OPTICAL MEASURING INSTRUMENTS  
 . . INFRARED SPECTROMETERS

**INFRARED SPECTROMETERS-(CONT.)**

... FILTER WHEEL INFRARED  
 SPECTROMETERS  
 RT EBERT SPECTROMETERS  
 SOLAR SPECTROMETERS

**INFRARED TRACKING**

GS TRACKING (POSITION)  
 . INFRARED TRACKING  
 RT ANTIMISSILE MISSILES  
 COMPENSATORY TRACKING  
 HOMING DEVICES  
 MISSILE TRACKING  
 OPTICAL TRACKING  
 PURSUIT TRACKING  
 RADIOMETERS

**INGESTION (ENGINES)**

RT ENGINE FAILURE  
 ∞ INGESTION

**INITIATION**

RT ACTIVATION  
 ACTUATION  
 DETONATION  
 ∞ GENERATION  
 ∞ INDUCTION  
 INOCULATION  
 NUCLEATION  
 ∞ PRIMING  
 REACTOR STARTUP TESTS  
 STARTING  
 STIMULATION

**INJECTION**

GS INJECTION  
 . CARRIER INJECTION  
 . FLUID INJECTION  
 . . GAS INJECTION  
 . . LIQUID INJECTION  
 . . . DEEP WELL INJECTION (WASTES)  
 . . . WATER INJECTION  
 . FUEL INJECTION  
 . ION INJECTION  
 . SECONDARY INJECTION  
 . TRANSEARTH INJECTION  
 . TRANSLUNAR INJECTION  
 RT BARRITT DIODES  
 BLOWING  
 BOUNDARY LAYER SEPARATION  
 ∞ CHARGING  
 FEEDING (SUPPLYING)  
 FILLING  
 FLUID FLOW  
 IMPLANTATION  
 INJECTORS  
 INPUT  
 PERFORMING  
 SUPPLYING

**INJECTION CARBURETORS**

USE CARBURETORS  
 FUEL INJECTION

**INJECTION GUIDANCE**

GS GUIDANCE (MOTION)  
 . INJECTION GUIDANCE  
 RT ASCENT TRAJECTORIES  
 CELESTIAL NAVIGATION  
 COMMAND GUIDANCE  
 INERTIAL GUIDANCE  
 MIDCOURSE GUIDANCE  
 RENDEZVOUS GUIDANCE  
 SATELLITE GUIDANCE  
 SPACECRAFT GUIDANCE  
 TRANSEARTH INJECTION  
 TRANSLUNAR INJECTION

**INJECTORS**

GS INJECTORS  
 . VORTEX INJECTORS  
 RT BLOWERS  
 CARBURETORS  
 EJECTORS  
 FEEDERS  
 FUEL INJECTION  
 FUEL SYSTEMS  
 INJECTION  
 JET FLOW  
 JET MIXING FLOW  
 ∞ JET NOZZLES  
 ∞ JETS  
 NOZZLE FLOW  
 ∞ NOZZLES  
 ORIFICES

## INLET FLOW

### INJECTORS-(CONT.)

PUMPS  
SPRAY NOZZLES

### INLET FLOW

GS FLUID FLOW  
INLET FLOW  
RT BYPASS RATIO  
∞ DIFFUSERS  
DUMP COMBUSTORS  
FLOW GEOMETRY  
FLUID INJECTION  
HEAD FLOW  
INLET AIRFRAME CONFIGURATIONS  
INTAKE SYSTEMS  
∞ PRESSURE DROP  
SUPERSONIC INLETS  
VORTEX GENERATORS

### INLET NOZZLES

RT AIR INTAKES  
ANNULAR NOZZLES  
BYPASS RATIO  
CONICAL NOZZLES  
∞ DIFFUSERS  
ENGINE INLETS  
EXHAUST NOZZLES  
INLET AIRFRAME CONFIGURATIONS  
INTAKE SYSTEMS  
INTERNAL COMPRESSION INLETS  
∞ NOZZLES  
OPENINGS  
PIPE NOZZLES

### INLET PRESSURE

GS PRESSURE  
INLET PRESSURE  
RT PRESSURE GRADIENTS  
PRESSURE RECOVERY  
STAGNATION PRESSURE  
WATER PRESSURE

### INLET TEMPERATURE

GS TEMPERATURE  
INLET TEMPERATURE  
RT AIR INTAKES  
ENGINE INLETS  
FUEL SYSTEMS  
GAS TEMPERATURE  
INTAKE SYSTEMS

### INSENSITIVITY

USE SENSITIVITY

### INSTABILITY

USE STABILITY

### INSTRUMENT APPROACH

GS APPROACH  
INSTRUMENT APPROACH  
RT AIRCRAFT APPROACH SPACING  
AIRCRAFT INSTRUMENTS  
APPROACH CONTROL  
APPROACH INDICATORS  
BLIND LANDING  
FLIGHT CONTROL  
FLIGHT INSTRUMENTS  
GLIDE PATHS  
LANDING AIDS  
LANDING RADAR  
NIGHT FLIGHTS (AIRCRAFT)

### INSTRUMENT COMPENSATION

GS INSTRUMENT COMPENSATION  
TEMPERATURE COMPENSATION  
RT ADAPTIVE OPTICS  
CALIBRATING  
∞ COMPENSATION  
ERROR CORRECTING DEVICES

### INSTRUMENT DRIFT

USE DRIFT (INSTRUMENTATION)

### INSTRUMENT ERRORS

GS ERRORS  
INSTRUMENT ERRORS  
RT BIAS  
BORESIGHT ERROR  
CALIBRATING  
DRIFT (INSTRUMENTATION)  
LINEARITY  
OPTICAL CORRECTION PROCEDURE  
SPECTRAL SENSITIVITY

### INSTRUMENT FLIGHT RULES

UF IFR (RULES)  
GS RULES  
FLIGHT RULES  
INSTRUMENT FLIGHT RULES  
RT AIR NAVIGATION  
AIR TRAFFIC CONTROL  
APPROACH CONTROL  
BEACONS  
BLIND LANDING  
FLIGHT CONDITIONS  
FLIGHT INSTRUMENTS  
FLIGHT PLANS  
LANDING  
LOW VISIBILITY

### INSTRUMENT LANDING SYSTEMS

UF ILS (LANDING SYSTEMS)  
GS LANDING AIDS  
INSTRUMENT LANDING SYSTEMS  
ALL-WEATHER LANDING SYSTEMS  
AUTOMATIC LANDING CONTROL  
RT AIR TRAFFIC CONTROL  
AIRCRAFT GUIDANCE  
AIRCRAFT INSTRUMENTS  
AIRCRAFT LANDING  
AIRPORTS  
APPROACH CONTROL  
APPROACH INDICATORS  
BLIND LANDING  
DISPLAY DEVICES  
FLIGHT CONTROL  
FLIGHT INSTRUMENTS  
GLIDE PATHS  
GROUND BASED CONTROL  
∞ INSTRUMENTS  
LANDING  
LANDING INSTRUMENTS  
NIGHT FLIGHTS (AIRCRAFT)  
RADAR  
RADAR APPROACH CONTROL  
RADIO ALTIMETERS  
RADIO BEACONS  
∞ SYSTEMS  
TRACKING (POSITION)

### INSTRUMENT ORIENTATION

RT ALIGNMENT  
ATTITUDE (INCLINATION)  
BEARING (DIRECTION)  
DIRECTIVITY  
LOOK ANGLES (ELECTRONICS)  
∞ ORIENTATION  
POSITIONING

### INSTRUMENT PACKAGES

GS PACKAGES  
INSTRUMENT PACKAGES  
APOLLO LUNAR SURFACE  
EXPERIMENTS PACKAGE  
EASEP  
EREPA  
RT AMPSS (SATELLITE PAYLOAD)  
AUTOMATIC WEATHER STATIONS  
DATA COLLECTION PLATFORMS  
LOCAL SCIENTIFIC SURVEY MODULE  
MODULES  
MOLECULAR SHIELDS  
OCEAN DATA ACQUISITIONS SYSTEMS  
ORBITING FROG OTOLITH  
PAYLOAD ASSIST MODULE  
PAYLOADS  
SATELLITE-BORNE INSTRUMENTS  
SIM  
SPACECRAFT INSTRUMENTS  
WEATHER STATIONS

### INSTRUMENT RECEIVERS

RT CONTROLLERS  
∞ DETECTORS  
DISPLAY DEVICES  
INDICATING INSTRUMENTS  
∞ INSTRUMENTS  
ISOTROPIC TURBULENCE  
MEASURING INSTRUMENTS  
RECEIVERS  
RECORDING INSTRUMENTS  
TRANSDUCERS

### INSTRUMENT TRANSMITTERS

GS TRANSMITTERS  
INSTRUMENT TRANSMITTERS  
RT CONTROLLERS  
∞ INSTRUMENTS  
MEASURING INSTRUMENTS

### INSTRUMENT TRANSMITTERS-(CONT.)

RECORDING INSTRUMENTS  
TRANSDUCERS

### ∞ INSULATED STRUCTURES

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)  
RT DIELECTRICS  
ELECTRICAL INSULATION  
HEAT RADIATORS  
HEAT SHIELDING  
HYPERSONIC VEHICLES  
INSULATION  
RADIATION SHIELDING  
REENTRY SHIELDING  
REENTRY VEHICLES  
SPACECRAFT SHIELDING

### INTEGRAL EQUATIONS

UF INTEGRODIFFERENTIAL EQUATIONS  
GS ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
INTEGRAL EQUATIONS  
FREDHOLM EQUATIONS  
J INTEGRAL  
SINGULAR INTEGRAL EQUATIONS  
VOLTERRA EQUATIONS  
WIENER HOPF EQUATIONS  
RT ASYMPTOTIC PROPERTIES  
CALCULUS OF VARIATIONS  
DIFFERENTIAL EQUATIONS  
DISTRIBUTED PARAMETER SYSTEMS  
∞ EQUATIONS  
MELLIN TRANSFORMS  
METHOD OF MOMENTS  
NONLINEAR EQUATIONS  
PERCUS METHOD  
RANGE (EXTREMES)  
SCHMIDT METHOD  
TRANSPORT THEORY

### INTEGRAL ROCKET RAMJETS

GS ENGINES  
AIR BREATHING ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
RAMJET ENGINES  
INTEGRAL ROCKET RAMJETS  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
RAMJET ENGINES  
INTEGRAL ROCKET RAMJETS  
RT SOLID PROPELLANT ROCKET ENGINES  
TURBINE ENGINES

### INTEGRODIFFERENTIAL EQUATIONS

USE DIFFERENTIAL EQUATIONS  
INTEGRAL EQUATIONS

### INTERACTIONAL AERODYNAMICS

GS FLUID MECHANICS  
FLUID DYNAMICS  
GAS DYNAMICS  
INTERACTIONAL AERODYNAMICS  
RT AIRFOILS  
COMPUTATIONAL FLUID DYNAMICS  
∞ FLOW  
LAMINAR BOUNDARY LAYER

### INTERCEPTOR AIRCRAFT

USE FIGHTER AIRCRAFT

### ∞ INTERCEPTORS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)  
RT FIGHTER AIRCRAFT  
SATELLITE INTERCEPTORS  
YF-12 AIRCRAFT

### INTERCONTINENTAL BALLISTIC MISSILES

UF ICBM (MISSILES)  
GS MISSILES  
BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC  
MISSILES  
ATLAS ICBM  
ATLAS D ICBM  
ATLAS E ICBM  
ATLAS F ICBM  
MINUTEMAN ICBM  
TITAN ICBM  
TITAN 1 ICBM



## INTERNAL COMBUSTION ENGINES

### INTERCONTINENTAL BALLISTIC-(CONT.)

... TITAN 2 ICBM  
 ... SURFACE TO SURFACE MISSILES  
 ... INTERCONTINENTAL BALLISTIC MISSILES  
 ... ATLAS ICBM  
 ... ATLAS D ICBM  
 ... ATLAS E ICBM  
 ... ATLAS F ICBM  
 ... MINUTEMAN ICBM  
 ... MX MISSILE  
 ... TITAN ICBM  
 ... TITAN 1 ICBM  
 ... TITAN 2 ICBM  
 RT FLEET BALLISTIC MISSILES  
 INTERMEDIATE RANGE BALLISTIC MISSILES  
 MARK 1 REENTRY BODY  
 MARK 2 REENTRY BODY  
 MARK 3 REENTRY BODY  
 MARK 4 REENTRY BODY  
 MARK 5 REENTRY BODY  
 MARK 6 REENTRY BODY  
 MARK 11 REENTRY BODY  
 MARK 12 REENTRY BODY  
 MARK 17 REENTRY BODY  
 TRANSOCEANIC SYSTEMS

### INTERDIGITAL TRANSDUCERS

GS TRANSDUCERS  
 ... INTERDIGITAL TRANSDUCERS  
 RT DIGITAL TRANSDUCERS  
 ELECTROACOUSTIC TRANSDUCERS  
 PIEZOELECTRIC TRANSDUCERS  
 SURFACE ACOUSTIC WAVE DEVICES

### INTERFACE STABILITY

RT FLUID BOUNDARIES  
 GAS-SOLID INTERFACES  
 INTERFACES  
 LIQUID SLOSHING  
 LIQUID-LIQUID INTERFACES  
 LIQUID-SOLID INTERFACES  
 LIQUID-VAPOR INTERFACES  
 TAYLOR INSTABILITY  
 ULLAGE

### INTERFACES

GS INTERFACES  
 ... FLUID BOUNDARIES  
 ... GAS-SOLID INTERFACES  
 ... JET BOUNDARIES  
 ... LIQUID-LIQUID INTERFACES  
 ... LIQUID-SOLID INTERFACES  
 ... LIQUID-VAPOR INTERFACES  
 ... SOLID-SOLID INTERFACES  
 RT BOUNDARIES  
 COORDINATION  
 DATA PROCESSING EQUIPMENT  
 FREE BOUNDARIES  
 INTERFACE STABILITY  
 MANAGEMENT PLANNING  
 PROJECT MANAGEMENT  
 SURFACE PROPERTIES  
 SURFACE REACTIONS  
 ∞ SURFACES  
 TELECOMMUNICATION

### INTERFERENCE DRAG

GS AERODYNAMIC CHARACTERISTICS  
 ... INTERFERENCE DRAG  
 DYNAMIC CHARACTERISTICS  
 ... DRAG  
 ... PRESSURE DRAG  
 ... WAVE DRAG  
 ... INTERFERENCE DRAG  
 RT PROPELLER SLIPSTREAMS  
 SUPERSONIC DRAG  
 UPWASH

### INTERFERENCE LIFT

GS AERODYNAMIC CHARACTERISTICS  
 ... LIFT  
 ... INTERFERENCE LIFT  
 AERODYNAMIC FORCES  
 ... LIFT  
 ... INTERFERENCE LIFT  
 DISTRIBUTION (PROPERTY)  
 ... INTERFERENCE LIFT  
 DYNAMIC CHARACTERISTICS  
 ... LIFT  
 ... INTERFERENCE LIFT  
 RT UPWASH

### INTERFEROGRAMS

USE INTERFEROMETRY

### INTERFEROMETERS

GS MEASURING INSTRUMENTS  
 ... INTERFEROMETERS  
 ... ETALONS  
 ... FABRY-PEROT INTERFEROMETERS  
 ... INFRARED INTERFEROMETERS  
 ... MACH-ZEHNDER INTERFEROMETERS  
 ... MICHELSON INTERFEROMETERS  
 ... MICROWAVE INTERFEROMETERS  
 ... PHASE SWITCHING  
 ... INTERFEROMETERS  
 ... RADIO INTERFEROMETERS  
 RT DIFFRACTOMETERS  
 FLATNESS  
 GONIOMETERS  
 OPTICAL EQUIPMENT  
 OPTICAL MEASUREMENT  
 OPTICAL MEASURING INSTRUMENTS  
 PHOTOGONIOMETERS  
 RONCHI TEST  
 SAGNAC EFFECT  
 VERY LONG BASE INTERFEROMETRY

### INTERFEROMETRY

UF INTERFEROGRAMS  
 GS INTERFEROMETRY  
 ... DIFFERENTIAL INTERFEROMETRY  
 ... HOLOGRAPHIC INTERFEROMETRY  
 ... LASER INTERFEROMETRY  
 ... MOIRE INTERFEROMETRY  
 ... RONCHI TEST  
 ... SPECKLE INTERFEROMETRY  
 ... VERY LONG BASE INTERFEROMETRY  
 RT DIFFRACTION PATTERNS  
 FRESNEL DIFFRACTION  
 FRESNEL REFLECTORS  
 INFRARED INTERFEROMETERS  
 ISOCHROMATICS  
 NULL ZONES  
 PLASMA FLUX MEASUREMENT  
 SAGNAC EFFECT  
 SCATTER PLATES (OPTICS)

### INTERIM UPPER STAGE (STS)

USE INERTIAL UPPER STAGE

### INTERIOR BALLISTICS

GS BALLISTICS  
 ... INTERIOR BALLISTICS  
 RT PROPELLANT TESTS

### INTERLACING DRAINAGE

USE DRAINAGE PATTERNS

### INTERMEDIATE RANGE BALLISTIC MISSILES

UF IRBM (MISSILES)  
 GS MISSILES  
 ... BALLISTIC MISSILES  
 ... INTERMEDIATE RANGE BALLISTIC MISSILES  
 ... BLUE STREAK MISSILE  
 ... JUPITER MISSILE  
 ... POLARIS MISSILES  
 ... POLARIS A1 MISSILE  
 ... POLARIS A2 MISSILE  
 ... POLARIS A3 MISSILE  
 ... SURFACE TO SURFACE MISSILES  
 ... INTERMEDIATE RANGE BALLISTIC MISSILES  
 ... BLUE STREAK MISSILE  
 ... JUPITER MISSILE  
 ... POLARIS MISSILES  
 ... POLARIS A1 MISSILE  
 ... POLARIS A2 MISSILE  
 ... POLARIS A3 MISSILE  
 RT FIELD ARMY BALLISTIC MISSILES  
 FLEET BALLISTIC MISSILES  
 INTERCONTINENTAL BALLISTIC MISSILES  
 MARK 1 REENTRY BODY  
 MARK 2 REENTRY BODY  
 MARK 3 REENTRY BODY  
 SHORT RANGE BALLISTIC MISSILES

### INTERNAL COMBUSTION ENGINES

SN (EXCLUDES ROCKET ENGINES)  
 GS ENGINES  
 ... INTERNAL COMBUSTION ENGINES  
 ... DIESEL ENGINES  
 ... GAS TURBINE ENGINES  
 ... HYDROGEN ENGINES  
 ... JET ENGINES  
 ... RAMJET ENGINES

### INTERNAL COMBUSTION ENGINES-(CONT.)

... INTEGRAL ROCKET RAMJETS  
 ... LOW VOLUME RAMJET ENGINES  
 ... PULSEJET ENGINES  
 ... SUPERSONIC COMBUSTION  
 ... RAMJET ENGINES  
 ... TURBORAMJET ENGINES  
 ... T-63 ENGINE  
 ... T-76 ENGINE  
 ... TURBOJET ENGINES  
 ... BRISTOL-SIDDELEY OLYMPUS  
 ... 593 ENGINE  
 ... BRISTOL-SIDDELEY VIPER  
 ... ENGINE  
 ... DUCTED FAN ENGINES  
 ... J-33 ENGINE  
 ... J-34 ENGINE  
 ... J-47 ENGINE  
 ... J-52 ENGINE  
 ... J-57 ENGINE  
 ... J-57-P-20 ENGINE  
 ... J-65 ENGINE  
 ... J-69-T-25 ENGINE  
 ... J-71 ENGINE  
 ... J-73 ENGINE  
 ... J-75 ENGINE  
 ... J-79 ENGINE  
 ... J-85 ENGINE  
 ... J-93 ENGINE  
 ... RA-28 ENGINE  
 ... TURBOFAN ENGINES  
 ... BRISTOL-SIDDELEY BS 53  
 ... ENGINE  
 ... CF-700 ENGINE  
 ... CONVERTIBLE FAN-SHAFT  
 ... ENGINES  
 ... J-97 ENGINE  
 ... TF-30 ENGINE  
 ... TF-41 ENGINE  
 ... TURBOPROP ENGINES  
 ... T-34 ENGINE  
 ... T-38 ENGINE  
 ... T-53 ENGINE  
 ... T-56 ENGINE  
 ... T-64 ENGINE  
 ... T-74 ENGINE  
 ... T-78 ENGINE  
 ... TURBORAMJET ENGINES  
 ... T-58 ENGINE  
 ... T-58-GE-8B ENGINE  
 ... HELICOPTER ENGINES  
 ... ROTARY ENGINES  
 ... WANKEL ENGINES  
 RT AFTERBURNING  
 AIRCRAFT ENGINES  
 AUTOMOBILE ENGINES  
 AUTOMOBILE FUELS  
 ∞ BEARING  
 BEARINGS  
 BOOSTER ROCKET ENGINES  
 CAMS  
 CARBURETORS  
 COMBUSTION  
 COMBUSTION CHAMBERS  
 DIESEL FUELS  
 DISTRIBUTORS  
 DUCTED ROCKET ENGINES  
 ELECTRIC HYBRID VEHICLES  
 ENGINE PARTS  
 ENGINE PRIMERS  
 ENGINE STARTERS  
 EXHAUST SYSTEMS  
 EXTERNAL COMBUSTION ENGINES  
 FUEL CONSUMPTION  
 FUEL INJECTION  
 FUEL PUMPS  
 FUEL SYSTEMS  
 GAS TURBINES  
 HYBRID PROPELLANT ROCKET ENGINES  
 IGNITION SYSTEMS  
 LIQUID PROPELLANT ROCKET ENGINES  
 LUBRICATION SYSTEMS  
 PISTON ENGINES  
 PISTONS  
 RETROCKET ENGINES  
 ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 SPARK PLUGS  
 SUPERCHARGERS  
 SUSTAINER ROCKET ENGINES  
 THERMODYNAMIC CYCLES  
 THERMODYNAMIC EFFICIENCY  
 TORPEDO ENGINES  
 VERNIER ENGINES

## INTERNAL COMPRESSION INLETS

### INTERNAL COMPRESSION INLETS

GS INTAKE SYSTEMS  
 . INTERNAL COMPRESSION INLETS  
 RT AIR INTAKES  
 COMPRESSING  
 ENGINE INLETS  
 INLET NOZZLES  
 SUPERSONIC INLETS

### INTERNAL ENERGY

RT CHEMICAL ENERGY  
 ∞ ENERGY  
 FREE ENERGY  
 GIBBS-HELMHOLTZ EQUATIONS  
 KINETIC ENERGY  
 ∞ LEVEL  
 MOLECULAR ENERGY LEVELS  
 PARTICLE ENERGY  
 POTENTIAL ENERGY  
 THERMAL ENERGY  
 THERMODYNAMICS

### INTERNAL PRESSURE

SN (LIMITED TO PRESSURE INSIDE A  
 PORTION OF MATTER DUE TO  
 ATTRACTION BETWEEN MOLECULES)  
 GS PRESSURE  
 . INTERNAL PRESSURE  
 RT ADHESION  
 COHESION  
 GAS PRESSURE  
 PARTIAL PRESSURE  
 PRESSURE DISTRIBUTION  
 SPREADING  
 TEMPERATURE INVERSIONS

### INTERNAL WAVES

GS INTERNAL WAVES  
 . PLANETARY WAVES  
 RT SURFACE WAVES  
 ∞ WAVES

### INTERNATIONAL COMETARY EXPLORER

USE INTERNATIONAL SUN EARTH EXPLORER  
 3

### INTERNATIONAL SUN EARTH EXPLORER 3

UF INTERNATIONAL COMETARY EXPLORER  
 GS ARTIFICIAL SATELLITES  
 . SCIENTIFIC SATELLITES  
 . . EXPLORER SATELLITES  
 . . . INTERNATIONAL SUN EARTH  
 EXPLORERS  
 . . . . INTERNATIONAL SUN EARTH  
 EXPLORER 3

### INTERPOLATION

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . INTERPOLATION  
 RT COMMUTATION  
 COMPUTATION  
 EXTRAPOLATION  
 FINITE DIFFERENCE THEORY  
 STATISTICAL ANALYSIS

### INTRUDER AIRCRAFT

USE A-6 AIRCRAFT

### INVADER AIRCRAFT

USE B-26 AIRCRAFT

### INVISCID FLOW

UF NONVISCOUS FLOW  
 GS FLUID FLOW  
 . INVISCID FLOW  
 . . STAGNATION FLOW  
 RT AERODYNAMICS  
 CROCCO METHOD  
 CROCCO-LEE THEORY  
 ∞ FLOW  
 FLOW CHARACTERISTICS  
 GAS FLOW  
 LAMINAR FLOW  
 POTENTIAL FLOW  
 PRANDTL NUMBER  
 REYNOLDS NUMBER  
 STAGNATION TEMPERATURE  
 TURBULENT FLOW  
 VISCOUS FLOW

### INVISIBILITY

USE VISIBILITY

### ION SPECTROMETERS

USE MASS SPECTROMETERS

### IRBM (MISSILES)

USE INTERMEDIATE RANGE BALLISTIC  
 MISSILES

### IROQUOIS HELICOPTER

USE UH-1 HELICOPTER

### IRROTATIONAL FLOW

USE POTENTIAL FLOW

### ISENTROPE

RT ADIABATIC CONDITIONS  
 ISENTROPIC PROCESSES  
 MOLLIER DIAGRAM  
 POISSON EQUATION

### ISKRA AIRCRAFT

USE TS-11 AIRCRAFT

### ISOCROMATICS

RT COLOR  
 DICHROISM  
 DIFFRACTION  
 INTERFEROMETRY  
 REFRACTION  
 SPECKLE INTERFEROMETRY

### ISOPARAMETRIC FINITE ELEMENTS

RT CONFORMAL MAPPING  
 COORDINATE TRANSFORMATIONS  
 ∞ ELEMENTS  
 FINITE ELEMENT METHOD  
 FRACTURE MECHANICS  
 NUMERICAL ANALYSIS  
 STRESS ANALYSIS

### ISOPLETHS

USE NOMOGRAPHS

### ISOTHERMAL FLOW

GS FLUID FLOW  
 . ISOTHERMAL FLOW  
 RT FLOW DISTRIBUTION  
 ISOTHERMS  
 TEMPERATURE DISTRIBUTION

### ISOTHERMAL LAYERS

RT ISOTHERMS  
 LAMINAR BOUNDARY LAYER  
 STRATOSPHERE  
 STRATOSPHERIC WARMING  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE GRADIENTS  
 THERMAL MAPPING  
 TROPOPAUSE

### ISOTONICITY

RT BODY FLUIDS  
 OSMOSIS

### ISOTROPIC TURBULENCE

GS TURBULENCE  
 . ISOTROPIC TURBULENCE  
 RT ATMOSPHERIC TURBULENCE  
 COORDINATE TRANSFORMATIONS  
 HOMOGENEOUS TURBULENCE  
 INSTRUMENT RECEIVERS  
 INVARIANT IMBEDDINGS  
 KOLMOGOROFF THEORY  
 MAGNETOHYDRODYNAMIC TURBULENCE  
 TURBULENT FLOW

### ITERATION

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . ITERATION  
 . . . CONJUGATE GRADIENT METHOD  
 . . . ITERATIVE SOLUTION  
 . . . NEWTON METHODS  
 . . . PREDICTOR-CORRECTOR METHODS  
 RT MULTIGRID METHODS  
 PROBABILITY THEORY  
 PROBLEM SOLVING

### ITERATIVE SOLUTION

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . ITERATION  
 . . . ITERATIVE SOLUTION  
 PROBLEM SOLVING  
 . ITERATIVE SOLUTION

### ITERATIVE SOLUTION-(CONT.)

RT ASYMPTOTIC METHODS  
 CHOLESKY FACTORIZATION  
 CONJUGATE GRADIENT METHOD  
 FINITE ELEMENT METHOD  
 MULTIGRID METHODS  
 NEWTON METHODS  
 PREDICTOR-CORRECTOR METHODS  
 STRANGE ATTRACTORS

### IUS

USE INERTIAL UPPER STAGE

## J

### J-33 ENGINE

GS ENGINES  
 . AIR BREATHING ENGINES  
 . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . . TURBOJET ENGINES  
 . . . . . J-33 ENGINE  
 . . . . . INTERNAL COMBUSTION ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . J-33 ENGINE  
 . . . . . TURBINE ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . J-33 ENGINE  
 . . . . . TURBOMACHINERY  
 . . . . . J-33 ENGINE  
 RT MACE MISSILES

### J-34 ENGINE

UF XJ-34-WE-32 ENGINE  
 GS ENGINES  
 . AIR BREATHING ENGINES  
 . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . . TURBOJET ENGINES  
 . . . . . J-34 ENGINE  
 . . . . . INTERNAL COMBUSTION ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . J-34 ENGINE  
 . . . . . TURBINE ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . J-34 ENGINE

### J-47 ENGINE

GS ENGINES  
 . AIR BREATHING ENGINES  
 . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . . TURBOJET ENGINES  
 . . . . . J-47 ENGINE  
 . . . . . INTERNAL COMBUSTION ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . J-47 ENGINE  
 . . . . . TURBINE ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . J-47 ENGINE

### J-52 ENGINE

GS AIRCRAFT ENGINES  
 . J-52 ENGINE  
 ENGINES  
 . INTERNAL COMBUSTION ENGINES  
 . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . . TURBOJET ENGINES  
 . . . . . J-52 ENGINE  
 . . . . . TURBINE ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . J-52 ENGINE

### J-57 ENGINE

GS ENGINES  
 . AIR BREATHING ENGINES  
 . . GAS TURBINE ENGINES

**J-57 ENGINE-(CONT.)**

... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-57 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-57 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-57 ENGINE**  
 RT AFTERBURNING

**J-57-P-20 ENGINE**

GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-57-P-20 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-57-P-20 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-57-P-20 ENGINE**  
 RT AFTERBURNING

**J-58 ENGINE**

GS AIRCRAFT ENGINES  
 ... **J-58 ENGINE**

**J-65 ENGINE**

GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-65 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-65 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-65 ENGINE**  
 RT A-4 AIRCRAFT

**J-69-T-25 ENGINE**

UF MARBORE 2 ENGINE  
 GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-69-T-25 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-69-T-25 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-69-T-25 ENGINE**

**J-71 ENGINE**

GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-71 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-71 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-71 ENGINE**

**J-73 ENGINE**

UF YJ-73-GE-3 ENGINE  
 YJ73 TURBOJET ENGINE  
 GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-73 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-73 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-73 ENGINE**

**J-75 ENGINE**

GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-75 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-75 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-75 ENGINE**

**J-79 ENGINE**

UF XJ-79-GE-1 ENGINE  
 YJ-79 ENGINE  
 GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-79 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-79 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-79 ENGINE**  
 RT F-4 AIRCRAFT

**J-85 ENGINE**

UF YJ-85 ENGINE  
 GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-85 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-85 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-85 ENGINE**  
 RT BLUE GOOSE MISSILE  
 OSPREY MISSILE

**J-93 ENGINE**

UF J93-MJ252H ENGINE  
 J93-MJ280G ENGINE  
 YJ-93 ENGINE  
 YJ-93-GE-3 ENGINE  
 GS ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-93 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-93 ENGINE**

**J-93 ENGINE-(CONT.)**

... **J-93 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... **J-93 ENGINE**

**J-97 ENGINE**

GS AIRCRAFT ENGINES  
 ... **J-97 ENGINE**  
 ... ENGINES  
 ... AIR BREATHING ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... TURBOFAN ENGINES  
 ... **J-97 ENGINE**  
 ... INTERNAL COMBUSTION ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... TURBOFAN ENGINES  
 ... **J-97 ENGINE**  
 ... TURBINE ENGINES  
 ... GAS TURBINE ENGINES  
 ... JET ENGINES  
 ... TURBOJET ENGINES  
 ... TURBOFAN ENGINES  
 ... **J-97 ENGINE**

**JABIRU ROCKET VEHICLE**

USE JAGUAR ROCKET VEHICLE

**JACKETS**

SN (EXCLUDES CLOTHING)  
 RT ABSORBERS (MATERIALS)  
 ∞ CASING  
 COOLING  
 COVERINGS  
 HEATING  
 INSULATION  
 LININGS  
 SHEATHS

**JACKS**

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
 RT ELECTRIC CONNECTORS  
 ELEVATORS (LIFTS)  
 JACKS (LIFTS)

**JAGUAR AIRCRAFT**

GS ATTACK AIRCRAFT  
 ... FIGHTER AIRCRAFT  
 ... **JAGUAR AIRCRAFT**  
 ... SINGLE ENGINE AIRCRAFT  
 ... **JAGUAR AIRCRAFT**  
 ... SUPERSONIC AIRCRAFT  
 ... **JAGUAR AIRCRAFT**  
 ... TRAINING AIRCRAFT  
 ... **JAGUAR AIRCRAFT**  
 RT ∞ AIRCRAFT  
 ∞ BREGUET AIRCRAFT  
 ∞ MILITARY AIRCRAFT

**JAGUAR ROCKET VEHICLE**

UF JABIRU ROCKET VEHICLE  
 GS ROCKET VEHICLES  
 ... MULTISTAGE ROCKET VEHICLES  
 ... **JAGUAR ROCKET VEHICLE**  
 ... SOUNDING ROCKETS  
 ... **JAGUAR ROCKET VEHICLE**  
 RT SOLID PROPELLANT ROCKET ENGINES

**JANUS SPACECRAFT**

GS GLIDERS  
 ... **JANUS SPACECRAFT**  
 ... LIFTING BODIES  
 ... LIFTING REENTRY VEHICLES  
 ... **JANUS SPACECRAFT**  
 ... MANEUVERABLE SPACECRAFT  
 ... **JANUS SPACECRAFT**  
 ... MANNED SPACECRAFT  
 ... **JANUS SPACECRAFT**  
 ... REENTRY VEHICLES  
 ... MANEUVERABLE REENTRY BODIES  
 ... LIFTING REENTRY VEHICLES  
 ... **JANUS SPACECRAFT**  
 ... SOFT LANDING SPACECRAFT  
 ... **JANUS SPACECRAFT**

**JATO ENGINES**

UF JET ASSISTED TAKEOFF

## JAVELIN AIRCRAFT

### JATO ENGINES-(CONT.)

GS ENGINES  
 . JATO ENGINES  
 LAUNCHERS  
 . AIRCRAFT LAUNCHING DEVICES  
 . JATO ENGINES  
 RT SHORT TAKEOFF AIRCRAFT  
 SOLID PROPELLANT ROCKET ENGINES  
 TAKEOFF

### JAVELIN AIRCRAFT

USE GA-5 AIRCRAFT

### JAVELIN ROCKET VEHICLE

GS ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . JAVELIN ROCKET VEHICLE  
 RT ARGO ROCKET VEHICLES  
 ROCKET PROPELLED SLEDS  
 SOLID PROPELLANT ROCKET ENGINES  
 SOUNDING ROCKETS

### JC-130 AIRCRAFT

USE C-130 AIRCRAFT

### JET AIRCRAFT

UF JET FLIGHT  
 TURBOJET AIRCRAFT  
 GS JET AIRCRAFT  
 . A-2 AIRCRAFT  
 . A-3 AIRCRAFT  
 . A-4 AIRCRAFT  
 . A-5 AIRCRAFT  
 . A-6 AIRCRAFT  
 . ALPHA JET AIRCRAFT  
 . AN-2 AIRCRAFT  
 . AVRO 707 AIRCRAFT  
 . B-47 AIRCRAFT  
 . B-50 AIRCRAFT  
 . B-52 AIRCRAFT  
 . B-57 AIRCRAFT  
 . B-58 AIRCRAFT  
 . B-66 AIRCRAFT  
 . B-70 AIRCRAFT  
 . BOEING 747 AIRCRAFT  
 . BOEING 2707 AIRCRAFT  
 . BUCCANEER AIRCRAFT  
 . C-5 AIRCRAFT  
 . C-8A AUGMENTOR WING AIRCRAFT  
 . C-8 AIRCRAFT  
 . C-119 AIRCRAFT  
 . C-135 AIRCRAFT  
 . C-140 AIRCRAFT  
 . CANBERRA AIRCRAFT  
 . CL-41 AIRCRAFT  
 . CL-823 AIRCRAFT  
 . COMET 4 AIRCRAFT  
 . CV-880 AIRCRAFT  
 . D-558 AIRCRAFT  
 . DC 9 AIRCRAFT  
 . DC 10 AIRCRAFT  
 . DH 112 AIRCRAFT  
 . DH 115 AIRCRAFT  
 . DH 125 AIRCRAFT  
 . DHC 2 AIRCRAFT  
 . EUROPEAN AIRBUS  
 . A-300 AIRCRAFT  
 . A-310 AIRCRAFT  
 . A-320 AIRCRAFT  
 . F-2 AIRCRAFT  
 . F-5 AIRCRAFT  
 . F-8 AIRCRAFT  
 . F-9 AIRCRAFT  
 . F-14 AIRCRAFT  
 . F-15 AIRCRAFT  
 . F-16 AIRCRAFT  
 . F-17 AIRCRAFT  
 . F-18 AIRCRAFT  
 . F-20 AIRCRAFT  
 . F-84 AIRCRAFT  
 . F-86 AIRCRAFT  
 . F-89 AIRCRAFT  
 . F-94 AIRCRAFT  
 . F-100 AIRCRAFT  
 . F-101 AIRCRAFT  
 . F-102 AIRCRAFT  
 . F-104 AIRCRAFT  
 . F-105 AIRCRAFT  
 . F-106 AIRCRAFT  
 . FD 2 AIRCRAFT  
 . G-91 AIRCRAFT  
 . G-95/4 AIRCRAFT  
 . GA-5 AIRCRAFT  
 . H-17 HELICOPTER  
 . H-126 AIRCRAFT

### JET AIRCRAFT-(CONT.)

. HFB-320 AIRCRAFT  
 . HP-115 AIRCRAFT  
 . HS-801 AIRCRAFT  
 . JET PROVOST AIRCRAFT  
 . JETSTREAM AIRCRAFT  
 . JINDIVIK TARGET AIRCRAFT  
 . L-29 JET TRAINER  
 . L-1011 AIRCRAFT  
 . L-2000 AIRCRAFT  
 . LEAR JET AIRCRAFT  
 . MIRAGE AIRCRAFT  
 . MIRAGE 3 AIRCRAFT  
 . NORD 1500 AIRCRAFT  
 . P-3 AIRCRAFT  
 . P-308 AIRCRAFT  
 . P-1052 AIRCRAFT  
 . PD-808 AIRCRAFT  
 . PHANTOM AIRCRAFT  
 . F-4 AIRCRAFT  
 . SC-1 AIRCRAFT  
 . SCIMITAR AIRCRAFT  
 . T-2 AIRCRAFT  
 . T-33 AIRCRAFT  
 . T-37 AIRCRAFT  
 . T-38 AIRCRAFT  
 . T-39 AIRCRAFT  
 . TS-11 AIRCRAFT  
 . TSR-2 AIRCRAFT  
 . TU-104 AIRCRAFT  
 . TU-124 AIRCRAFT  
 . TURBOFAN AIRCRAFT  
 . A-7 AIRCRAFT  
 . BAC 111 AIRCRAFT  
 . BOEING 707 AIRCRAFT  
 . BOEING 720 AIRCRAFT  
 . BOEING 727 AIRCRAFT  
 . BOEING 733 AIRCRAFT  
 . BOEING 737 AIRCRAFT  
 . BOEING 757 AIRCRAFT  
 . BOEING 767 AIRCRAFT  
 . C-141 AIRCRAFT  
 . CL-600 CHALLENGER AIRCRAFT  
 . CONCORDE AIRCRAFT  
 . CV-990 AIRCRAFT  
 . DC 8 AIRCRAFT  
 . DH 121 AIRCRAFT  
 . DO-31 AIRCRAFT  
 . F-28 TRANSPORT AIRCRAFT  
 . F-111 AIRCRAFT  
 . IL-82 AIRCRAFT  
 . MYSTERE 20 AIRCRAFT  
 . P-1127 AIRCRAFT  
 . P-1154 AIRCRAFT  
 . SAAB 37 AIRCRAFT  
 . SAAB 105 AIRCRAFT  
 . SE-210 AIRCRAFT  
 . TU-134 AIRCRAFT  
 . TU-144 AIRCRAFT  
 . TURBOPROP AIRCRAFT  
 . AN-22 AIRCRAFT  
 . AN-24 AIRCRAFT  
 . ARGOSY MK-1 AIRCRAFT  
 . BREGUET 941 AIRCRAFT  
 . BREGUET 1150 AIRCRAFT  
 . C-2 AIRCRAFT  
 . C-130 AIRCRAFT  
 . C-133 AIRCRAFT  
 . C-160 AIRCRAFT  
 . CL-44 AIRCRAFT  
 . CL-84 AIRCRAFT  
 . DHC 5 AIRCRAFT  
 . E-2 AIRCRAFT  
 . ELECTRA AIRCRAFT  
 . F-27 AIRCRAFT  
 . G-222 AIRCRAFT  
 . HS-748 AIRCRAFT  
 . MH-262 AIRCRAFT  
 . OV-1 AIRCRAFT  
 . OV-10 AIRCRAFT  
 . SC-5 AIRCRAFT  
 . VISCOUNT AIRCRAFT  
 . YS-11 AIRCRAFT  
 . U-2 AIRCRAFT  
 . VALIANT AIRCRAFT  
 . VAMPIRE MK 35 AIRCRAFT  
 . VC-10 AIRCRAFT  
 . VICTOR MK-1 AIRCRAFT  
 . VJ-101 AIRCRAFT  
 . VULCAN AIRCRAFT  
 . X-3 AIRCRAFT  
 . X-5 AIRCRAFT  
 . X-13 AIRCRAFT  
 . X-14 AIRCRAFT  
 . X-21 AIRCRAFT  
 . X-21A AIRCRAFT

### JET AIRCRAFT-(CONT.)

. XC-142 AIRCRAFT  
 . XV-4 AIRCRAFT  
 . XV-5 AIRCRAFT  
 . XV-9A AIRCRAFT  
 . YAK 40 AIRCRAFT  
 RT ∞ AIRCRAFT  
 AIRCRAFT NOISE  
 ATTACK AIRCRAFT  
 B-1 AIRCRAFT  
 BOMBER AIRCRAFT  
 CARGO AIRCRAFT  
 COMMERCIAL AIRCRAFT  
 FIGHTER AIRCRAFT  
 FLYING PLATFORMS  
 GENERAL AVIATION AIRCRAFT  
 HYPERSONIC AIRCRAFT  
 ∞ JETS  
 ∞ LOW WING AIRCRAFT  
 ∞ MILITARY AIRCRAFT  
 MYSTERE 50 AIRCRAFT  
 PASSENGER AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 RESEARCH AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 ∞ SUBSONIC AIRCRAFT  
 SUPERSONIC AIRCRAFT  
 TAILLESS AIRCRAFT  
 TANDEM WING AIRCRAFT  
 TERRAIN FOLLOWING AIRCRAFT  
 TRAINING AIRCRAFT  
 TRANSPORT AIRCRAFT  
 TU-154 AIRCRAFT  
 TURBOJET ENGINES  
 V/STOL AIRCRAFT  
 ∞ WINGED VEHICLES  
 YF-12 AIRCRAFT

### JET AIRCRAFT NOISE

UF JET NOISE  
 GS ELASTIC WAVES  
 . SOUND WAVES  
 . NOISE (SOUND)  
 . . . AIRCRAFT NOISE  
 . . . . JET AIRCRAFT NOISE  
 RT ACOUSTIC RETROFITTING  
 AERODYNAMIC NOISE  
 ∞ AIRCRAFT  
 AIRCRAFT RUNUP  
 ENGINE NOISE  
 MUFFLERS  
 NOISE MEASUREMENT  
 NOISE REDUCTION  
 QUIET ENGINE PROGRAM  
 SONIC BOOMS

### JET AMPLIFIERS

UF FLUID JET AMPLIFIERS  
 GS AMPLIFIERS  
 . FLUID AMPLIFIERS  
 . . JET AMPLIFIERS  
 RT COANDA EFFECT  
 FLUID JETS  
 ∞ JET NOZZLES  
 NOZZLE WALLS

### JET ASSISTED TAKEOFF

USE JATO ENGINES

### JET AUGMENTED WING FLAPS

USE JET FLAPS  
 WING FLAPS

### JET BLAST EFFECTS

RT ∞ BLASTS  
 ∞ EFFECTS  
 EXHAUST GASES  
 GROUND EFFECT (AERODYNAMICS)  
 NOISE (SOUND)  
 PRESSURE EFFECTS  
 TEMPERATURE EFFECTS

### JET BOUNDARIES

GS BOUNDARIES  
 . FLUID BOUNDARIES  
 . . JET BOUNDARIES  
 INTERFACES  
 . FLUID BOUNDARIES  
 . . JET BOUNDARIES  
 RT FREE JETS  
 LIQUID SURFACES  
 WALL JETS

### JET CONDENSERS

GS CONDENSERS (LIQUEFIERS)

**JET CONDENSERS-(CONT.)**

**JET CONDENSERS**  
 RT ∞ CONDENSERS  
 LIQUEFACTION  
 NUCLEATION  
 SPRAY CONDENSERS  
 WORKING FLUIDS

**JET CONTROL**

RT AUTOMATIC CONTROL  
 BOUNDARY LAYER CONTROL  
 ∞ CONTROL  
 DIRECTIONAL CONTROL  
 SATELLITE ATTITUDE CONTROL  
 SATELLITE CONTROL  
 THRUST CONTROL  
 VARIABLE THRUST

**JET DAMPING**

USE DAMPING  
 SPIN REDUCTION

**JET DRAGON AIRCRAFT**

USE DH 125 AIRCRAFT

**JET DRIVE**

USE JET PROPULSION

**JET ENGINE FUELS**

UF JET FUELS  
 GS FUELS  
 . CHEMICAL FUELS  
 . HYDROCARBON FUELS  
 . JET ENGINE FUELS  
 . . JP-4 JET FUEL  
 . . JP-5 JET FUEL  
 . . JP-6 JET FUEL  
 . . JP-8 JET FUEL  
 . LIQUID FUELS  
 . JET ENGINE FUELS  
 . . JP-4 JET FUEL  
 . . JP-5 JET FUEL  
 . . JP-6 JET FUEL  
 . . JP-8 JET FUEL  
 RT AIRCRAFT FUELS  
 ANTIMISTING FUELS  
 GASOLINE  
 KEROSENE  
 TURBINES

**JET ENGINES**

SN (EXCLUDES HYDROJET ENGINES)  
 GS ENGINES  
 . AIR BREATHING ENGINES  
 . GAS TURBINE ENGINES  
 . JET ENGINES  
 . . RAMJET ENGINES  
 . . INTEGRAL ROCKET RAMJETS  
 . . LOW VOLUME RAMJET ENGINES  
 . . PULSEJET ENGINES  
 . . SUPERSONIC COMBUSTION  
 . . . RAMJET ENGINES  
 . . . TURBORAMJET ENGINES  
 . . . TURBOJET ENGINES  
 . . . BRISTOL-SIDDELEY OLYMPUS  
 . . . 593 ENGINE  
 . . . BRISTOL-SIDDELEY VIPER  
 . . . ENGINE  
 . . . DUCTED FAN ENGINES  
 . . . J-33 ENGINE  
 . . . J-34 ENGINE  
 . . . J-47 ENGINE  
 . . . J-57 ENGINE  
 . . . J-57-P-20 ENGINE  
 . . . J-65 ENGINE  
 . . . J-69-T-25 ENGINE  
 . . . J-71 ENGINE  
 . . . J-73 ENGINE  
 . . . J-75 ENGINE  
 . . . J-79 ENGINE  
 . . . J-85 ENGINE  
 . . . J-83 ENGINE  
 . . . RA-28 ENGINE  
 . . . TURBOFAN ENGINES  
 . . . BRISTOL-SIDDELEY BS 53  
 . . . ENGINE  
 . . . CF-700 ENGINE  
 . . . CONVERTIBLE FAN-SHAFT  
 . . . ENGINES  
 . . . J-97 ENGINE  
 . . . TF-41 ENGINE  
 . . . TURBOPROP ENGINES  
 . . . T-53 ENGINE  
 . . . T-56 ENGINE  
 . . . T-64 ENGINE

**JET ENGINES-(CONT.)**

. . . T-74 ENGINE  
 . . . TURBORAMJET ENGINES  
 . . . INTERNAL COMBUSTION ENGINES  
 . . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . RAMJET ENGINES  
 . . . INTEGRAL ROCKET RAMJETS  
 . . . LOW VOLUME RAMJET ENGINES  
 . . . PULSEJET ENGINES  
 . . . SUPERSONIC COMBUSTION  
 . . . . RAMJET ENGINES  
 . . . . TURBORAMJET ENGINES  
 . . . T-63 ENGINE  
 . . . T-76 ENGINE  
 . . . TURBOJET ENGINES  
 . . . BRISTOL-SIDDELEY OLYMPUS  
 . . . 593 ENGINE  
 . . . BRISTOL-SIDDELEY VIPER  
 . . . ENGINE  
 . . . DUCTED FAN ENGINES  
 . . . J-33 ENGINE  
 . . . J-34 ENGINE  
 . . . J-47 ENGINE  
 . . . J-52 ENGINE  
 . . . J-57 ENGINE  
 . . . J-57-P-20 ENGINE  
 . . . J-65 ENGINE  
 . . . J-69-T-25 ENGINE  
 . . . J-71 ENGINE  
 . . . J-73 ENGINE  
 . . . J-75 ENGINE  
 . . . J-79 ENGINE  
 . . . J-85 ENGINE  
 . . . J-83 ENGINE  
 . . . RA-28 ENGINE  
 . . . TURBOFAN ENGINES  
 . . . BRISTOL-SIDDELEY BS 53  
 . . . ENGINE  
 . . . CF-700 ENGINE  
 . . . CONVERTIBLE FAN-SHAFT  
 . . . ENGINES  
 . . . J-97 ENGINE  
 . . . TF-30 ENGINE  
 . . . TF-41 ENGINE  
 . . . TURBOPROP ENGINES  
 . . . T-34 ENGINE  
 . . . T-38 ENGINE  
 . . . T-53 ENGINE  
 . . . T-56 ENGINE  
 . . . T-64 ENGINE  
 . . . T-74 ENGINE  
 . . . T-78 ENGINE  
 . . . TURBORAMJET ENGINES  
 . . . TURBINE ENGINES  
 . . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . RAMJET ENGINES  
 . . . LOW VOLUME RAMJET ENGINES  
 . . . PULSEJET ENGINES  
 . . . SUPERSONIC COMBUSTION  
 . . . . RAMJET ENGINES  
 . . . . TURBORAMJET ENGINES  
 . . . T-63 ENGINE  
 . . . T-76 ENGINE  
 . . . TURBOJET ENGINES  
 . . . BRISTOL-SIDDELEY OLYMPUS  
 . . . 593 ENGINE  
 . . . BRISTOL-SIDDELEY VIPER  
 . . . ENGINE  
 . . . DUCTED FAN ENGINES  
 . . . J-33 ENGINE  
 . . . J-34 ENGINE  
 . . . J-47 ENGINE  
 . . . J-52 ENGINE  
 . . . J-57 ENGINE  
 . . . J-57-P-20 ENGINE  
 . . . J-65 ENGINE  
 . . . J-69-T-25 ENGINE  
 . . . J-71 ENGINE  
 . . . J-73 ENGINE  
 . . . J-75 ENGINE  
 . . . J-79 ENGINE  
 . . . J-85 ENGINE  
 . . . J-83 ENGINE  
 . . . RA-28 ENGINE  
 . . . TURBOFAN ENGINES  
 . . . BRISTOL-SIDDELEY BS 53  
 . . . ENGINE  
 . . . CF-700 ENGINE  
 . . . CONVERTIBLE FAN-SHAFT  
 . . . ENGINES  
 . . . J-97 ENGINE  
 . . . TF-30 ENGINE  
 . . . TF-41 ENGINE  
 . . . TURBOPROP ENGINES

**JET ENGINES-(CONT.)**

. . . T-34 ENGINE  
 . . . T-38 ENGINE  
 . . . T-53 ENGINE  
 . . . T-56 ENGINE  
 . . . T-64 ENGINE  
 . . . T-74 ENGINE  
 . . . T-78 ENGINE  
 . . . TURBORAMJET ENGINES  
 RT AFTERBURNING  
 AIRCRAFT ENGINES  
 COMBUSTION CHAMBERS  
 EJECTORS  
 ENGINE STARTERS  
 EXHAUST NOZZLES  
 FLAMEOUT  
 FLYING EJECTION SEATS  
 FUEL INJECTION  
 FUEL PUMPS  
 HELICOPTER ENGINES  
 HYBRID PROPELLANT ROCKET ENGINES  
 HYBRID PROPULSION  
 INFRARED SUPPRESSION  
 ∞ JET NOZZLES  
 QUIET ENGINE PROGRAM  
 REACTION PRODUCTS  
 ROCKET ENGINES  
 THRUST

**JET EXHAUST**

UF HOT JET EXHAUST  
 BASE HEATING  
 RT EXHAUST EMISSION  
 EXHAUST GASES  
 INFRARED SUPPRESSION  
 ROCKET EXHAUST

**JET FLAMES**

USE FLAMES  
 JET FLOW

**JET FLAPS**

UF JET AUGMENTED WING FLAPS  
 GS AIRFOILS  
 . FLAPS (CONTROL SURFACES)  
 . JET FLAPS  
 . CONTROL SURFACES  
 . FLAPS (CONTROL SURFACES)  
 . JET FLAPS  
 RT EXTERNALLY BLOWN FLAPS  
 H-126 AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 SPLIT FLAPS  
 TRAILING EDGE FLAPS  
 VORTEX FLAPS  
 WING FLAPS

**JET FLIGHT**

USE JET AIRCRAFT

**JET FLOW**

UF HOT JETS  
 JET FLAMES  
 LAMINAR JETS  
 REACTION JETS  
 GS FLUID FLOW  
 . JET FLOW  
 . . AIR JETS  
 . . PERIPHERAL JET FLOW  
 . . SUPERSONIC JET FLOW  
 RT FLUID JETS  
 FREE BOUNDARIES  
 FREE JETS  
 GAS STREAMS  
 HYDRAULIC JETS  
 INJECTORS  
 JET MEMBRANE PROCESS  
 ∞ JETS  
 NOZZLE FLOW  
 PARTICLE LADEN JETS  
 SPANWISE BLOWING  
 TWO DIMENSIONAL JETS  
 VAPOR JETS  
 WALL JETS

**JET FUELS**

USE JET ENGINE FUELS

**JET IMPINGEMENT**

GS IMPINGEMENT  
 . JET IMPINGEMENT  
 RT ABLATION  
 BASE HEATING

## JET LAG

**JET LAG**  
 GS BIOLOGICAL EFFECTS  
   . JET LAG  
   DISORIENTATION  
   . JET LAG  
   PSYCHOLOGICAL EFFECTS  
   . JET LAG  
 RT DESYNCHRONIZATION (BIOLOGY)  
 DISORDERS  
 FLIGHT STRESS (BIOLOGY)  
 RHYTHM (BIOLOGY)  
 SUPERSONIC FLIGHT

**JET LIFT**  
 GS AERODYNAMIC CHARACTERISTICS  
   . LIFT  
   . JET LIFT  
   AERODYNAMIC FORCES  
   . LIFT  
   . JET LIFT  
   DYNAMIC CHARACTERISTICS  
   . LIFT  
   . JET LIFT  
 RT DISTRIBUTION (PROPERTY)

**JET MIXING FLOW**  
 GS FLUID FLOW  
   . JET MIXING FLOW  
 RT FLUID JETS  
 FREE BOUNDARIES  
 FUEL INJECTION  
 INJECTORS  
 ∞ JETS  
 MIXING  
 MIXING LAYERS (FLUIDS)  
 PREMIXING  
 TWO DIMENSIONAL JETS

**JET NOISE**  
 USE JET AIRCRAFT NOISE

**∞ JET NOZZLES**  
 SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT CARBURETORS  
 CONICAL NOZZLES  
 EXHAUST DIFFUSERS  
 EXHAUST NOZZLES  
 FUEL INJECTION  
 INJECTORS  
 JET AMPLIFIERS  
 JET ENGINES  
 SKIRTS

**JET PILOTS**  
 USE AIRCRAFT PILOTS

**JET PROPULSION**  
 UF JET DRIVE  
 GS PROPULSION  
   . JET PROPULSION  
 RT AIRCRAFT ENGINES  
 CHEMICAL PROPULSION  
 HELICOPTER PROPELLER DRIVE  
 MARINE PROPULSION  
 ROCKET ENGINES  
 SQUID PROJECT  
 TURBINES

**JET PROVOST AIRCRAFT**  
 UF HUNTING P-84 AIRCRAFT  
 P-84 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . FIGHTER AIRCRAFT  
 . JET PROVOST AIRCRAFT  
 BAC AIRCRAFT  
 . JET PROVOST AIRCRAFT  
 JET AIRCRAFT  
 . JET PROVOST AIRCRAFT  
 MONOPLANES  
 . JET PROVOST AIRCRAFT  
 SINGLE ENGINE AIRCRAFT  
 . JET PROVOST AIRCRAFT  
 TRAINING AIRCRAFT  
 . JET PROVOST AIRCRAFT  
 RT ∞ AIRCRAFT

**JET PUMPS**  
 SN *(EXCLUDES DEVICES USING A LIQUID  
 OR GAS TO INDUCE MOVEMENT OF A  
 GAS SUCH AS AIR EJECTORS)*  
 GS PUMPS  
   . JET PUMPS  
 RT EJECTORS

**JET PUMPS—(CONT.)**  
 FUEL PUMPS  
 ∞ JETS  
 ∞ PUMPING  
 TURBINE PUMPS  
 VACUUM PUMPS

**JET STAR AIRCRAFT**  
 USE C-140 AIRCRAFT

**JET THRUST**  
 UF REACTION JETS  
 GS THRUST  
   . JET THRUST  
 RT COLD GAS  
 CONVERTIBLE FAN-SHAFT ENGINES  
 HIGH THRUST  
 LOW THRUST  
 MICROTHRUST  
 ROCKET THRUST  
 STATIC THRUST  
 THRUST LOADS  
 VARIABLE THRUST

**JET VANES**  
 GS CONTROL SURFACES  
 . GUIDE VANES  
 . JET VANES  
 VANES  
 . GUIDE VANES  
 . JET VANES

RT AIRFOILS  
 THRUST VECTOR CONTROL  
 WALL JETS

**JETAVATORS**  
 USE GUIDE VANES

**∞ JETS**  
 SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT AIR JETS  
 FLUID JETS  
 FREE JETS  
 GAS JETS  
 INJECTORS  
 JET AIRCRAFT  
 JET FLOW  
 JET MIXING FLOW  
 JET PUMPS  
 PLASMA JETS  
 SPRAYERS  
 TURBULENT JETS  
 TWO DIMENSIONAL JETS  
 WALL JETS

**JETSTREAM AIRCRAFT**  
 GS COMMERCIAL AIRCRAFT  
 . JETSTREAM AIRCRAFT  
 GRUMMAN AIRCRAFT  
 . JETSTREAM AIRCRAFT  
 JET AIRCRAFT  
 . JETSTREAM AIRCRAFT  
 PASSENGER AIRCRAFT  
 . JETSTREAM AIRCRAFT  
 RT ∞ AIRCRAFT

**JETTISON SYSTEMS**  
 RT BAILOUT  
 EJECTION  
 EJECTION SEATS  
 ESCAPE (ABANDONMENT)  
 ESCAPE SYSTEMS  
 JETTISONING  
 ∞ SYSTEMS  
 WING TANKS

**JETTISONING**  
 RT BAILOUT  
 DISPOSAL  
 DUMPING  
 EJECTION  
 EMPTYING  
 ESCAPE (ABANDONMENT)  
 EXPULSION  
 JETTISON SYSTEMS  
 SPILLING

**JF 101 AIRCRAFT**  
 USE F-101 AIRCRAFT

**JIMSPHERE BALLOONS**  
 GS EXPANDABLE STRUCTURES

**JIMSPHERE BALLOONS—(CONT.)**  
 . INFLATABLE STRUCTURES  
 . . . BALLOONS  
 . . . HIGH ALTITUDE BALLOONS  
 . . . JIMSPHERE BALLOONS  
 . . . METEOROLOGICAL BALLOONS  
 . . . JIMSPHERE BALLOONS  
 RT WIND (METEOROLOGY)

**JINDIVIK TARGET AIRCRAFT**  
 GS DRONE VEHICLES  
 . DRONE AIRCRAFT  
 . . TARGET DRONE AIRCRAFT  
 . . . JINDIVIK TARGET AIRCRAFT  
 JET AIRCRAFT  
 . JINDIVIK TARGET AIRCRAFT  
 MONOPLANES  
 . JINDIVIK TARGET AIRCRAFT  
 PILOTLESS AIRCRAFT  
 . DRONE AIRCRAFT  
 . . TARGET DRONE AIRCRAFT  
 . . . JINDIVIK TARGET AIRCRAFT  
 TARGETS  
 . JINDIVIK TARGET AIRCRAFT  
 RT ∞ AIRCRAFT  
 REMOTELY PILOTED VEHICLES

**JITTER**  
 USE VIBRATION

**JOINED WINGS**  
 GS AIRFOILS  
 . WINGS  
 . . JOINED WINGS  
 RT AIRCRAFT CONFIGURATIONS  
 DUAL WING CONFIGURATIONS  
 RESEARCH AIRCRAFT  
 TANDEM WING AIRCRAFT  
 WING TIPS

**JOUKOWSKI TRANSFORMATION**  
 RT AIRFOIL PROFILES  
 COMPLEX VARIABLES  
 COORDINATE TRANSFORMATIONS  
 KUTTA-JOUKOWSKI CONDITION  
 THEODORSEN TRANSFORMATION

**JOULE HEATING**  
 USE OHMIC DISSIPATION  
 RESISTANCE HEATING

**∞ JOURNALS**  
 SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT NEWS MEDIA  
 PERIODICALS  
 SHAFTS (MACHINE ELEMENTS)

**JOURNALS (SHAFTS)**  
 USE SHAFTS (MACHINE ELEMENTS)

**JP-4 JET FUEL**  
 GS FUELS  
 . CHEMICAL FUELS  
 . . HYDROCARBON FUELS  
 . . . JET ENGINE FUELS  
 . . . . JP-4 JET FUEL  
 . . . LIQUID FUELS  
 . . . JET ENGINE FUELS  
 . . . . JP-4 JET FUEL  
 RT JP-6 JET FUEL  
 JP-8 JET FUEL  
 RP-1 ROCKET PROPELLANTS

**JP-5 JET FUEL**  
 GS FUELS  
 . CHEMICAL FUELS  
 . . HYDROCARBON FUELS  
 . . . JET ENGINE FUELS  
 . . . . JP-5 JET FUEL  
 . . . LIQUID FUELS  
 . . . JET ENGINE FUELS  
 . . . . JP-5 JET FUEL

**JP-6 JET FUEL**  
 GS FUELS  
 . CHEMICAL FUELS  
 . . HYDROCARBON FUELS  
 . . . JET ENGINE FUELS  
 . . . . JP-6 JET FUEL  
 . . . LIQUID FUELS  
 . . . JET ENGINE FUELS  
 . . . . JP-6 JET FUEL

**JP-6 JET FUEL-(CONT.)**

RT JP-4 JET FUEL  
JP-8 JET FUEL

**JP-8 JET FUEL**

GS FUELS  
.. CHEMICAL FUELS  
.. HYDROCARBON FUELS  
.. JET ENGINE FUELS  
.. JP-8 JET FUEL  
.. LIQUID FUELS  
.. JET ENGINE FUELS  
.. JP-8 JET FUEL  
RT JP-4 JET FUEL  
JP-6 JET FUEL  
KEROSENE

**∞ JUNCTIONS**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT CONNECTORS  
INTERSECTIONS  
JFET  
JOINTS (JUNCTIONS)  
JUNCTION TRANSISTORS  
P-I-N JUNCTIONS  
P-N JUNCTIONS  
P-N-P JUNCTIONS  
P-N-P-N JUNCTIONS  
SEMICONDUCTOR DEVICES  
SEMICONDUCTOR JUNCTIONS

**JUNO LAUNCH VEHICLES**

GS LAUNCH VEHICLES  
.. JUNO LAUNCH VEHICLES  
.. JUNO 1 LAUNCH VEHICLE  
.. JUNO 2 LAUNCH VEHICLE  
ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. JUNO LAUNCH VEHICLES  
.. JUNO 1 LAUNCH VEHICLE  
.. JUNO 2 LAUNCH VEHICLE  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
∞ VEHICLES

**JUNO 1 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
.. JUNO LAUNCH VEHICLES  
.. JUNO 1 LAUNCH VEHICLE  
ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. JUNO LAUNCH VEHICLES  
.. JUNO 1 LAUNCH VEHICLE  
RT EXPLORER SATELLITES  
JUPITER C ROCKET VEHICLE  
LIQUID PROPELLANT ROCKET ENGINES  
SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES

**JUNO 2 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
.. JUNO LAUNCH VEHICLES  
.. JUNO 2 LAUNCH VEHICLE  
ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. JUNO LAUNCH VEHICLES  
.. JUNO 2 LAUNCH VEHICLE  
RT EXPLORER 11 SATELLITE  
JUPITER MISSILE  
LIQUID PROPELLANT ROCKET ENGINES  
PIONEER SPACE PROBES  
PIONEER 3 SPACE PROBE  
PIONEER 4 SPACE PROBE  
PIONEER 6 SPACE PROBE  
PIONEER 7 SPACE PROBE  
PIONEER 8 SPACE PROBE  
SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES

**JUPITER C ROCKET VEHICLE**

GS ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. JUPITER C ROCKET VEHICLE  
RT EXPLORER SATELLITES  
JUNO 1 LAUNCH VEHICLE  
JUPITER MISSILE  
LAUNCH VEHICLES  
LIQUID PROPELLANT ROCKET ENGINES  
SERGEANT MISSILES  
SOLID PROPELLANT ROCKET ENGINES

**JUPITER MISSILE**  
GS MISSILES

**JUPITER MISSILE-(CONT.)**

.. BALLISTIC MISSILES  
.. INTERMEDIATE RANGE BALLISTIC  
MISSILES  
.. JUPITER MISSILE  
.. SURFACE TO SURFACE MISSILES  
.. INTERMEDIATE RANGE BALLISTIC  
MISSILES  
.. JUPITER MISSILE  
RT JUNO 2 LAUNCH VEHICLE  
JUPITER C ROCKET VEHICLE  
LIQUID PROPELLANT ROCKET ENGINES

**JUPITER PROJECT**

GS PROGRAMS  
.. NASA PROGRAMS  
.. NASA SPACE PROGRAMS  
.. JUPITER PROJECT  
.. PROJECTS  
.. JUPITER PROJECT  
.. SPACE PROGRAMS  
.. NASA SPACE PROGRAMS  
.. JUPITER PROJECT  
RT LAUNCH VEHICLES

**J93-MJ252H ENGINE**

USE J-93 ENGINE

**J93-MJ280G ENGINE**

USE J-93 ENGINE

**K****K-EPSILON TURBULENCE MODEL**

UF KAPPA-EPSILON TURBULENCE MODEL  
GS MODELS  
.. MATHEMATICAL MODELS  
.. TURBULENCE MODELS  
.. K-EPSILON TURBULENCE MODEL  
RT CLOSURE LAW  
COMPUTATIONAL FLUID DYNAMICS  
FLOW EQUATIONS  
TURBULENT BOUNDARY LAYER  
TURBULENT FLOW

**KA-6 SAILPLANES**

UF SCHLEICHER KA-6 SAILPLANE  
GS GLIDERS  
.. KA-6 SAILPLANES  
RT ∞ AIRCRAFT  
GLIDING  
SAILWINGS  
∞ WINGED VEHICLES

**KALMAN-SCHMIDT FILTERING**

RT ∞ APPLICATIONS OF MATHEMATICS  
FEEDBACK CONTROL  
INERTIAL PLATFORMS  
NAVIGATION INSTRUMENTS  
OPTIMAL CONTROL  
OPTIMIZATION  
REMOTE CONTROL  
STOCHASTIC PROCESSES  
TIME SERIES ANALYSIS

**KAMAN AIRCRAFT**

GS KAMAN AIRCRAFT  
.. H-43 HELICOPTER  
.. HH-43 HELICOPTER  
.. UH-2 HELICOPTER  
RT ∞ AIRCRAFT

**KAMAN UH-2A HELICOPTER**

USE UH-2 HELICOPTER

**KAPPA ROCKET VEHICLES**

GS ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. KAPPA ROCKET VEHICLES  
.. KAPPA 8 ROCKET VEHICLE  
.. KAPPA 9 ROCKET VEHICLE  
.. SOUNDING ROCKETS  
.. KAPPA ROCKET VEHICLES  
.. KAPPA 8 ROCKET VEHICLE  
.. KAPPA 9 ROCKET VEHICLE  
RT SOLID PROPELLANT ROCKET ENGINES  
∞ VEHICLES

**KAPPA 8 ROCKET VEHICLE**

GS ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES

**KAPPA 8 ROCKET VEHICLE-(CONT.)**

.. KAPPA ROCKET VEHICLES  
.. KAPPA 8 ROCKET VEHICLE  
.. SOUNDING ROCKETS  
.. KAPPA ROCKET VEHICLES  
.. KAPPA 8 ROCKET VEHICLE  
RT SOLID PROPELLANT ROCKET ENGINES

**KAPPA 9 ROCKET VEHICLE**

GS ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. KAPPA ROCKET VEHICLES  
.. KAPPA 9 ROCKET VEHICLE  
.. SOUNDING ROCKETS  
.. KAPPA ROCKET VEHICLES  
.. KAPPA 9 ROCKET VEHICLE  
RT SOLID PROPELLANT ROCKET ENGINES

**KAPPA-EPSILON TURBULENCE MODEL**

USE K-EPSILON TURBULENCE MODEL

**KARMAN VORTEX STREET**

GS VORTEX STREETS  
.. KARMAN VORTEX STREET  
RT AEOLIAN TONES  
SUBSONIC FLOW  
VON KARMAN EQUATION  
VORTICITY EQUATIONS

**KARMAN-BODEWADT FLOW**

GS FLUID FLOW  
.. AXISYMMETRIC FLOW  
.. KARMAN-BODEWADT FLOW  
.. VISCOUS FLOW  
.. KARMAN-BODEWADT FLOW  
TRANSLATIONAL MOTION  
.. THREE DIMENSIONAL MOTION  
.. THREE DIMENSIONAL FLOW  
.. KARMAN-BODEWADT FLOW  
RT ROTATING DISKS  
ROTATING FLUIDS

**KAWASAKI AIRCRAFT**

RT ∞ AIRCRAFT

**KC-130 AIRCRAFT**

USE C-130 AIRCRAFT

**KC-135 AIRCRAFT**

USE C-135 AIRCRAFT

**KELVIN-HELMHOLTZ INSTABILITY**

RT COLLISIONLESS PLASMAS  
FLOW STABILITY  
∞ HELMHOLTZ EQUATIONS  
MAGNETOHYDRODYNAMIC FLOW  
MAGNETOHYDRODYNAMIC STABILITY  
MASS FLOW  
NONUNIFORM PLASMAS  
PLASMAS (PHYSICS)  
SUPERFLUIDITY

**KEROGEN**

GS ORGANIC COMPOUNDS  
.. KEROGEN  
RESOURCES  
.. EARTH RESOURCES  
.. KEROGEN  
RT FUEL OILS  
FUELS  
GASOLINE  
GREASES  
HYDROCARBON FUELS  
KEROSENE  
LUBRICANTS  
OILS  
SHALE OIL

**KEROSENE**

GS FUELS  
.. CHEMICAL FUELS  
.. LIQUID FUELS  
.. KEROSENE  
RT ANTIMISTING FUELS  
DIESEL FUELS  
FUEL OILS  
GASOLINE  
HYDROCARBON FUELS  
JET ENGINE FUELS  
JP-8 JET FUEL  
KEROGEN  
PARAFFINS  
RP-1 ROCKET PROPELLANTS  
SHALE OIL

## KESTREL AIRCRAFT

**KESTREL AIRCRAFT**  
USE P-1127 AIRCRAFT

**KINEMATIC EQUATIONS**  
GS EQUATIONS OF MOTION  
KINETIC EQUATIONS  
KINEMATIC EQUATIONS  
RT EQUATIONS

**KINEMATICS**  
GS KINEMATICS  
BODY KINEMATICS  
ACCELERATION (PHYSICS)  
DYNAMICS  
EQUATIONS OF MOTION  
HODOGRAPHS  
KINETICS  
MECHANICS (PHYSICS)  
MICROWAVE REFLECTOMETERS  
MOTION  
NUTATION  
VELOCITY

**KINETIC EQUATIONS**  
GS EQUATIONS OF MOTION  
KINETIC EQUATIONS  
HYDRODYNAMIC EQUATIONS  
HELMHOLTZ VORTICITY EQUATION  
KINEMATIC EQUATIONS  
RT BBGKY HIERARCHY  
BETHE-SALPETER EQUATION  
EINSTEIN EQUATIONS  
EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
VIRIAL THEOREM

**KINETICS**  
GS KINETICS  
ELECTROKINETICS  
KINETIC ENERGY  
NEWTON SECOND LAW  
NEWTON THEORY  
REACTION KINETICS  
VARIABLE MASS SYSTEMS  
RT ACCELERATION (PHYSICS)  
ANGULAR MOMENTUM  
BODY KINEMATICS  
DYNAMICS  
FLUID DYNAMICS  
FLUID MECHANICS  
FORCE  
GAS DYNAMICS  
HYDROMECHANICS  
IDEAL GAS  
KINEMATICS  
MECHANICS (PHYSICS)  
MOMENTUM TRANSFER  
MOTION AFTEREFFECTS  
NEWTON  
PARTICLE COLLISIONS  
PHYSICS  
VELOCITY

**KIRCHHOFF-HELMHOLTZ FLOW**  
USE PIPE FLOW

**KITE BALLOONS**  
USE TETHERED BALLOONS

**KITS**  
RT FIRST AID  
SURVIVAL  
TOOLS

**KNUDSEN FLOW**  
UF KNUDSEN NUMBER  
GS FLUID FLOW  
DUCTED FLOW  
KNUDSEN FLOW  
GAS FLOW  
KNUDSEN FLOW  
RT BOUNDARY LAYER TRANSITION  
FREE MOLECULAR FLOW  
KINETIC THEORY  
MEAN FREE PATH  
MOLECULAR FLOW  
PRESSURE GRADIENTS  
RAREFIED GAS DYNAMICS  
TRANSITION POINTS  
VACUUM  
VISCOUS FLOW

**KNUDSEN NUMBER**  
USE KNUDSEN FLOW

**KOLMOGOROFF THEORY**  
RT ISOTROPIC TURBULENCE  
LAGRANGE SIMILARITY HYPOTHESIS  
SHEAR FLOW  
THEORIES  
TURBULENT FLOW  
VORTICES

**KOLMOGOROFF-SMIRNOFF TEST**  
GS STATISTICAL ANALYSIS  
STATISTICAL TESTS  
KOLMOGOROFF-SMIRNOFF TEST

**KUTTA-JOUKOWSKI CONDITION**  
GS CONDITIONS  
KUTTA-JOUKOWSKI CONDITION  
RT AIRFOIL PROFILES  
BOUNDARY LAYER SEPARATION  
JOUKOWSKI TRANSFORMATION

## L

**L-28 AIRCRAFT**  
USE U-10 AIRCRAFT

**L-29 AIRCRAFT**  
USE L-29 JET TRAINER

**L-29 JET TRAINER**  
UF DELFIN AIRCRAFT  
L-29 AIRCRAFT  
OMNIPOL L-29 AIRCRAFT  
GS JET AIRCRAFT  
L-29 JET TRAINER  
MONOPLANES  
L-29 JET TRAINER  
SINGLE ENGINE AIRCRAFT  
L-29 JET TRAINER  
TILT WING AIRCRAFT  
L-29 JET TRAINER  
TRAINING AIRCRAFT  
L-29 JET TRAINER  
V/STOL AIRCRAFT  
L-29 JET TRAINER

**LABORATORIES**  
GS LABORATORIES  
ENGINE TESTING LABORATORIES  
ENVIRONMENTAL LABORATORIES  
HUMAN FACTORS LABORATORIES  
LUNAR MOBILE LABORATORIES  
LUNAR RECEIVING LABORATORY  
SPACE LABORATORIES  
ADVANCED TECHNOLOGY  
LABORATORY  
ATMOSPHERIC CLOUD PHYSICS LAB  
(SPACELAB)  
EARTH VIEWING APPLICATIONS  
LABORATORY  
LONG DURATION EXPOSURE  
FACILITY  
MANNED ORBITAL LABORATORIES  
SKYLAB 1  
SKYLAB 2  
SKYLAB 3  
SKYLAB 4  
SPACELAB  
UNDERWATER RESEARCH  
LABORATORIES  
RT EXPERIMENT DESIGN  
EXPERIMENTATION  
NUCLEAR RESEARCH  
RESEARCH FACILITIES  
SAIL PROJECT  
TEST FACILITIES  
TESTS

**LABORATORY EQUIPMENT**  
GS LABORATORY EQUIPMENT  
IMAGE FURNACES  
SYRINGES  
RT AMPOULES  
EQUIPMENT  
GLASSWARE  
MEASURING INSTRUMENTS  
PIPETTES

**LACE (ENGINE)**  
USE LIQUID AIR CYCLE ENGINES

**LAGRANGE COORDINATES**  
GS COORDINATES  
LAGRANGE COORDINATES  
RT CLASSICAL MECHANICS  
HYDRODYNAMICS  
LIBRATIONAL MOTION

**LAGRANGE EQUATIONS OF MOTION**  
USE EULER-LAGRANGE EQUATION

**LAGRANGE SIMILARITY HYPOTHESIS**  
GS HYPOTHESES  
LAGRANGE SIMILARITY HYPOTHESIS  
THEOREMS  
SIMILARITY THEOREM  
LAGRANGE SIMILARITY HYPOTHESIS  
RT ENERGY DISSIPATION  
ENERGY TRANSFER  
KINETIC ENERGY  
KOLMOGOROFF THEORY  
TURBULENT FLOW

**LAGRANGIAN EQUILIBRIUM POINTS**  
GS GRAVITATIONAL EFFECTS  
LAGRANGIAN EQUILIBRIUM POINTS  
RT CELESTIAL MECHANICS  
GRAVITATIONAL FIELDS  
ORBITAL MECHANICS

**LAMBDA ROCKET VEHICLES**  
GS ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
LAMBDA ROCKET VEHICLES  
SOUNDING ROCKETS  
LAMBDA ROCKET VEHICLES  
RT SOLID PROPELLANT ROCKET ENGINES  
VEHICLES

**LAME WAVE EQUATIONS**  
GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
DIFFERENTIAL EQUATIONS  
LAME WAVE EQUATIONS  
WAVE EQUATIONS  
LAME WAVE EQUATIONS  
RT ACOUSTICS  
ELASTIC WAVES  
EQUATIONS  
STURM-LIOUVILLE THEORY  
WAVE PROPAGATION

**LAMINA**  
USE LAYERS

**LAMINAR BOUNDARY LAYER**  
UF LAMINAR BOUNDARY LAYER  
SEPARATION  
LAMINAR FLOW CONTROL  
GS BOUNDARY LAYERS  
LAMINAR BOUNDARY LAYER  
RT BOUNDARY LAYER COMBUSTION  
BOUNDARY LAYER TRANSITION  
COMPRESSIBLE BOUNDARY LAYER  
GOERTLER INSTABILITY  
HYPERSONIC BOUNDARY LAYER  
INCOMPRESSIBLE BOUNDARY LAYER  
INTERACTIONAL AERODYNAMICS  
ISOTHERMAL LAYERS  
POHLHAUSEN METHOD  
SUPERSONIC BOUNDARY LAYERS  
THERMAL BOUNDARY LAYER  
THREE DIMENSIONAL BOUNDARY LAYER  
TURBULENT BOUNDARY LAYER  
TWO DIMENSIONAL BOUNDARY LAYER  
X-21 AIRCRAFT

**LAMINAR BOUNDARY LAYER SEPARATION**  
USE BOUNDARY LAYER SEPARATION  
LAMINAR BOUNDARY LAYER

**LAMINAR FLAMES**  
USE FLAMES  
LAMINAR FLOW

**LAMINAR FLOW**  
UF LAMINAR FLAMES  
LAMINAR JETS  
POISEUILLE FLOW  
STREAMLINE FLOW  
GS FLUID FLOW  
LAMINAR FLOW  
BLASIUS FLOW  
HARTMANN FLOW  
STRATIFIED FLOW



**LAMINAR FLOW-(CONT.)**

RT AERODYNAMICS  
 ATMOSPHERIC TURBULENCE  
 BOUNDARY LAYER TRANSITION  
 CAPILLARY FLOW  
 CRITICAL FLOW  
 FALKNER-SKAN EQUATION  
 FLOW CHARACTERISTICS  
 FLOW GEOMETRY  
 FLOW STABILITY  
 FORCED CONVECTION  
 FREE CONVECTION  
 GAS FLOW  
 GAS STREAMS  
 INVISCID FLOW  
 LIQUID FLOW  
 LOW REYNOLDS NUMBER  
 MASS FLOW  
 MULTIPHASE FLOW  
 NEWTON PRESSURE LAW  
 OPEN CHANNEL FLOW  
 ORIFICE FLOW  
 PARALLEL FLOW  
 PIPE FLOW  
 PRANDTL-MEYER EXPANSION  
 RAYLEIGH-BENARD CONVECTION  
 REYNOLDS NUMBER  
 ROSHKO PREDICTION  
 SINGLE-PHASE FLOW  
 STEADY FLOW  
 STEAM FLOW  
 TOLLMIE-SCHLICHTING WAVES  
 ∞ TRANSITION LAYERS  
 TURBULENT FLOW  
 TWO PHASE FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 VISCOUS DRAG  
 VISCOUS FLOW  
 WEDGE FLOW  
 X-21A AIRCRAFT

**LAMINAR FLOW AIRFOILS**

GS AIRFOILS  
 . LAMINAR FLOW AIRFOILS

**LAMINAR FLOW CONTROL**

USE BOUNDARY LAYER CONTROL  
 LAMINAR BOUNDARY LAYER

**LAMINAR HEAT TRANSFER**

GS TRANSMISSION  
 . HEAT TRANSMISSION  
 . . HEAT TRANSFER  
 . . . LAMINAR HEAT TRANSFER  
 RT CONDUCTIVE HEAT TRANSFER  
 CONVECTIVE HEAT TRANSFER  
 THERMOHYDRAULICS  
 TURBULENT HEAT TRANSFER

**LAMINAR JETS**

USE JET FLOW  
 LAMINAR FLOW

**LAMINAR MIXING**

GS MIXING  
 . LAMINAR MIXING  
 RT FLUID INJECTION  
 GAS MIXTURES  
 MIXING LAYERS (FLUIDS)  
 TURBULENT MIXING

**LAMINAR WAKES**

GS WAKES  
 . LAMINAR WAKES  
 RT AIRCRAFT WAKES  
 TURBULENT WAKES

**LAMPS PROGRAM**

USE LIGHT AIRBORNE MULTIPURPOSE  
 SYSTEM

**LANCE MISSILE**

GS MISSILES  
 . SURFACE TO SURFACE MISSILES  
 . . LANCE MISSILE  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 TRAILBLAZER 1 REENTRY VEHICLE  
 TX-77 ENGINE

**LANDING**

GS LANDING  
 . AIRCRAFT LANDING  
 . . CRASH LANDING

**LANDING-(CONT.)**

. . . DITCHING (LANDING)  
 . . SKID LANDINGS  
 . BLIND LANDING  
 . GLIDE LANDINGS  
 . . HORIZONTAL SPACECRAFT LANDING  
 . HARD LANDING  
 . SOFT LANDING  
 . SPACECRAFT LANDING  
 . . HORIZONTAL SPACECRAFT LANDING  
 . LUNAR LANDING  
 . MARS LANDING  
 . PLANETARY LANDING  
 . TOUCHDOWN  
 . VERTICAL LANDING  
 . WATER LANDING  
 . . DITCHING (LANDING)  
 RT AIR TRAFFIC CONTROL  
 APPROACH  
 APPROACH AND LANDING TESTS (STS)  
 ARRIVALS  
 GUIDANCE (MOTION)  
 INSTRUMENT FLIGHT RULES  
 INSTRUMENT LANDING SYSTEMS  
 MANEUVERS  
 RUNWAYS  
 TAKEOFF  
 VISUAL FLIGHT

**LANDING AIDS**

UF LANDING SYSTEMS  
 GS LANDING AIDS  
 . AIRPORT BEACONS  
 . DISCRETE ADDRESS BEACON  
 SYSTEM  
 . AIRPORT LIGHTS  
 . RUNWAY LIGHTS  
 . ARRESTING GEAR  
 . INSTRUMENT LANDING SYSTEMS  
 . ALL-WEATHER LANDING SYSTEMS  
 . AUTOMATIC LANDING CONTROL  
 . LANDING INSTRUMENTS  
 . APPROACH INDICATORS  
 . LANDING RADAR  
 . MICROVISION LANDING AID  
 . MICROWAVE LANDING SYSTEMS  
 . MICROWAVE SCANNING BEAM  
 LANDING SYSTEM

RT ∞ AIDS  
 AIR TRAFFIC CONTROL  
 AIR TRAFFIC CONTROLLERS  
 (PERSONNEL)  
 AIRBORNE RADAR APPROACH  
 AIRCRAFT EQUIPMENT  
 AIRCRAFT INSTRUMENTS  
 AIRCRAFT LANDING  
 AIRCRAFT SAFETY  
 AIRPORT TOWERS  
 AIRPORTS  
 ANTISKID DEVICES  
 APPROACH  
 APPROACH CONTROL  
 AUTOMATIC PILOTS  
 DELAYED FLAP APPROACH  
 GROUND BASED CONTROL  
 GROUND SUPPORT EQUIPMENT  
 HEAD-UP DISPLAYS  
 HELIPORTS  
 INSTRUMENT APPROACH  
 MILITARY AIR FACILITIES  
 NATIONAL AVIATION SYSTEM  
 NAVIGATION AIDS  
 PLAT SYSTEM  
 RADAR APPROACH CONTROL  
 RADIO BEACONS  
 RUNWAYS  
 SAFETY DEVICES  
 SOLAR COMPASSES

**LANDING GEAR**

UF RETRACTABLE LANDING GEAR  
 RT AIRCRAFT PARTS  
 AIRCRAFT TIRES  
 AIRFRAMES  
 ∞ BICYCLE  
 BRAKES (FOR ARRESTING MOTION)  
 CARRIAGES  
 FAIRINGS  
 FLOATS  
 ∞ GEAR  
 HYDROFOILS  
 NOSE WHEELS  
 RETRACTABLE EQUIPMENT  
 SELF ALIGNMENT  
 SHOCK ABSORBERS

**LANDING GEAR-(CONT.)**

SKIDDING  
 SKIS  
 SPRAY INGESTION  
 TIRES  
 UNDERCARRIAGES  
 VEHICLE WHEELS  
 WHEEL BRAKES  
 WHEELS

**LANDING INSTRUMENTS**

GS LANDING AIDS  
 . LANDING INSTRUMENTS  
 . . APPROACH INDICATORS  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT EQUIPMENT  
 AIRCRAFT INSTRUMENTS  
 ALTIMETERS  
 AUTOMATIC CONTROL  
 BLIND LANDING  
 FLIGHT INSTRUMENTS  
 INSTRUMENT LANDING SYSTEMS  
 MANUAL CONTROL  
 MEASURING INSTRUMENTS  
 RADAR APPROACH CONTROL  
 SPEED INDICATORS

**LANDING LOADS**

GS LOADS (FORCES)  
 . DYNAMIC LOADS  
 . . TRANSIENT LOADS  
 . . . LANDING LOADS  
 RT DECELERATION  
 IMPACT LOADS  
 SHOCK LOADS  
 STRUCTURAL DESIGN CRITERIA

**LANDING MATS**

RT AIRCRAFT LANDING  
 AIRPORTS  
 MILITARY AIR FACILITIES  
 RUNWAYS

**LANDING RADAR**

GS LANDING AIDS  
 . LANDING RADAR  
 RADAR  
 . LANDING RADAR  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT LANDING  
 AIRCRAFT SAFETY  
 APPROACH CONTROL  
 INSTRUMENT APPROACH  
 RADAR APPROACH CONTROL

**LANDING SIMULATION**

GS SIMULATION  
 . LANDING SIMULATION  
 RT ALTITUDE SIMULATION  
 ATMOSPHERIC ENTRY SIMULATION  
 COMPUTERIZED SIMULATION  
 FLIGHT SIMULATION  
 SPACECRAFT LANDING  
 TRAINING SIMULATORS

**LANDING SPEED**

GS RATES (PER TIME)  
 . LANDING SPEED  
 VELOCITY  
 . LANDING SPEED  
 RT HIGH SPEED  
 LOW SPEED

**LANDING SYSTEMS**

USE LANDING AIDS

**LANES**

USE PATHS

**LAPLACE EQUATION**

RT ∞ EQUATIONS  
 HARMONIC FUNCTIONS  
 PARTIAL DIFFERENTIAL EQUATIONS  
 POISSON EQUATION  
 STOKES-BELTRAMI EQUATION

**LARA AIRCRAFT**

USE COIN AIRCRAFT

**LASER ALTIMETERS**

GS MEASURING INSTRUMENTS  
 . DISTANCE MEASURING EQUIPMENT  
 . . ALTIMETERS  
 . . . LASER ALTIMETERS

## LASER GYROSCOPES

### LASER ALTIMETERS-(CONT.)

RT AIRCRAFT INSTRUMENTS  
ALTITUDE CONTROL  
∞ INSTRUMENTS  
LASERS  
OPTICAL RADAR  
SATELLITE INSTRUMENTS  
SPACECRAFT INSTRUMENTS

### LASER GYROSCOPES

GS GYROSCOPES  
LASER GYROSCOPES  
RT LARGE SPACE STRUCTURES  
OPTICAL GYROSCOPES  
SAGNAC EFFECT  
∞ SENSORS  
SPACECRAFT GUIDANCE  
STABILIZATION

### LASER INTERFEROMETRY

GS INTERFEROMETRY  
LASER INTERFEROMETRY  
RT SAGNAC EFFECT

### LASER RANGE FINDERS

GS MEASURING INSTRUMENTS  
DISTANCE MEASURING EQUIPMENT  
RANGE FINDERS  
OPTICAL RANGE FINDERS  
LASER RANGE FINDERS  
OPTICAL MEASURING INSTRUMENTS  
OPTICAL RANGE FINDERS  
LASER RANGE FINDERS  
OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
OPTICAL RANGE FINDERS  
LASER RANGE FINDERS  
RT LAGEOS (SATELLITE)  
LUNAR RANGEFINDING  
LUNAR RETROREFLECTORS  
NAVIGATION AIDS  
NAVIGATION INSTRUMENTS

### LASER SPECTROMETERS

GS MEASURING INSTRUMENTS  
SPECTROMETERS  
LASER SPECTROMETERS  
RT ABSORPTION SPECTRA  
INFRARED SPECTROSCOPY  
LASER SPECTROSCOPY

### LASER TARGET DESIGNATORS

RT ∞ DETECTORS  
MISSILE TRACKING  
SATELLITE TRACKING  
TARGET RECOGNITION  
TARGETS

### LASV

USE F-111 AIRCRAFT

### LATERAL CONTROL

UF LATERALIZATION  
ROLL CONTROL  
GS ATTITUDE CONTROL  
LATERAL CONTROL  
RTAILERONS  
AIRCRAFT CONTROL  
ALTITUDE CONTROL  
AUTOMATIC CONTROL  
∞ CONTROL  
DIRECTIONAL CONTROL  
ELEVONS  
HELICOPTER CONTROL  
LONGITUDINAL CONTROL  
MANUAL CONTROL  
MISSILE CONTROL  
ROLL  
SATELLITE ATTITUDE CONTROL  
SATELLITE CONTROL

### LATERAL OSCILLATION

UF SNAKING  
RT DIRECTIONAL STABILITY  
ROLL  
STABILITY AUGMENTATION  
TRANSVERSE OSCILLATION  
TURNING FLIGHT  
YAW  
YAWING MOMENTS

### LATERAL STABILITY

UF DIHEDRAL EFFECT  
LATERALITY

### LATERAL STABILITY-(CONT.)

GS DYNAMIC CHARACTERISTICS  
DYNAMIC STABILITY  
MOTION STABILITY  
ATTITUDE STABILITY  
LATERAL STABILITY  
STABILITY  
DYNAMIC STABILITY  
MOTION STABILITY  
ATTITUDE STABILITY  
LATERAL STABILITY  
RT AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
DIHEDRAL ANGLE  
DIRECTIONAL STABILITY  
FLOW STABILITY  
HANDEDNESS  
HOVERING STABILITY  
LONGITUDINAL STABILITY  
ROLL  
ROLLING MOMENTS  
ROTARY STABILITY  
SPACECRAFT STABILITY  
TURNING FLIGHT  
VERTICAL ORIENTATION

### LATERALITY

USE LATERAL STABILITY

### LATERALIZATION

USE LATERAL CONTROL

### LATITUDE

GS LATITUDE  
GEOMAGNETIC LATITUDE  
RT COORDINATES  
GEODETIC COORDINATES  
LONGITUDE  
POSITION (LOCATION)

### LATITUDE MEASUREMENT

RT LONGITUDE MEASUREMENT  
∞ MEASUREMENT  
NAVIGATION  
POSITIONING

### LAUNCH TIME

USE LAUNCH WINDOWS

### LAUNCH VEHICLE CONFIGURATIONS

RT ADVANCED LAUNCH SYSTEM (STS)  
AERODYNAMIC CONFIGURATIONS  
∞ CONFIGURATIONS  
HOTOL LAUNCH VEHICLE  
MISSILE CONFIGURATIONS  
PROPULSION SYSTEM CONFIGURATIONS  
RECOVERABLE LAUNCH VEHICLES  
SPACECRAFT CONFIGURATIONS

### LAUNCH VEHICLES

UF CARRIER ROCKETS  
GS LAUNCH VEHICLES  
ABLESTAR LAUNCH VEHICLE  
ARIANE LAUNCH VEHICLE  
ATLAS LAUNCH VEHICLES  
ATLAS ABLE 5 LAUNCH VEHICLE  
ATLAS AGENA B LAUNCH VEHICLE  
ATLAS AGENA LAUNCH VEHICLES  
ATLAS CENTAUR LAUNCH VEHICLE  
ATLAS SLV-3 LAUNCH VEHICLE  
BLUE SCOUT ROCKET VEHICLE  
BLUE STREAK LAUNCH VEHICLE  
CENTAUR LAUNCH VEHICLE  
ATLAS CENTAUR LAUNCH VEHICLE  
DELTA LAUNCH VEHICLE  
DIAMANT LAUNCH VEHICLE  
ELDO LAUNCH VEHICLE  
EUROPA LAUNCH VEHICLES  
EUROPA 1 LAUNCH VEHICLE  
EUROPA 2 LAUNCH VEHICLE  
EUROPA 3 LAUNCH VEHICLE  
EUROPA 4 LAUNCH VEHICLE  
HEAVY LIFT LAUNCH VEHICLES  
HYLA-STAR ROCKET VEHICLE  
JUNO LAUNCH VEHICLES  
JUNO 1 LAUNCH VEHICLE  
JUNO 2 LAUNCH VEHICLE  
LITTLE JOE 2 LAUNCH VEHICLE  
NOMAD LAUNCH VEHICLE  
NOVA LAUNCH VEHICLES  
PEGASUS AIR-LAUNCHED BOOSTER  
RAM B LAUNCH VEHICLE  
RECOVERABLE LAUNCH VEHICLES  
REUSABLE LAUNCH VEHICLES  
SINGLE STAGE TO ORBIT VEHICLES

### LAUNCH VEHICLES-(CONT.)

HOTOL LAUNCH VEHICLE  
SATURN LAUNCH VEHICLES  
SATURN D LAUNCH VEHICLE  
SATURN 1 LAUNCH VEHICLES  
SATURN 1 SA-1 LAUNCH VEHICLE  
SATURN 1 SA-2 LAUNCH VEHICLE  
SATURN 1 SA-3 LAUNCH VEHICLE  
SATURN 1 SA-4 LAUNCH VEHICLE  
SATURN 1 SA-5 LAUNCH VEHICLE  
SATURN 1 SA-6 LAUNCH VEHICLE  
SATURN 1 SA-7 LAUNCH VEHICLE  
SATURN 1 SA-8 LAUNCH VEHICLE  
SATURN 1 SA-9 LAUNCH VEHICLE  
SATURN 1 SA-10 LAUNCH VEHICLE  
SATURN 1B LAUNCH VEHICLES  
SATURN 2 LAUNCH VEHICLES  
SATURN 5 LAUNCH VEHICLES  
SCOUT LAUNCH VEHICLE  
STANDARD LAUNCH VEHICLES  
ATLAS SLV-3 LAUNCH VEHICLE  
STANDARD LAUNCH VEHICLE 5  
THOR LAUNCH VEHICLES  
THOR ABLE ROCKET VEHICLE  
THOR AGENA LAUNCH VEHICLE  
THOR DELTA LAUNCH VEHICLE  
THORAD LAUNCH VEHICLES  
THOR ABLE ROCKET VEHICLE  
THOR AGENA LAUNCH VEHICLE  
THOR DELTA LAUNCH VEHICLE  
TITAN CENTAUR LAUNCH VEHICLE  
TITAN LAUNCH VEHICLES  
TITAN 3 LAUNCH VEHICLE  
VANGUARD 2 LAUNCH VEHICLE  
VEGA LAUNCH VEHICLE  
RT ADVANCED LAUNCH SYSTEM (STS)  
AEROSPACE PLANES  
BOOSTER ROCKET ENGINES  
∞ BOOSTER ROCKETS  
BOOSTERS  
CENTAUR PROJECT  
EXHAUST CLOUDS  
FLIGHT TEST VEHICLES  
JUPITER C ROCKET VEHICLE  
JUPITER PROJECT  
LANDING MODULES  
LAUNCHERS  
LAUNCHING  
MISSILE LAUNCHERS  
MISSILES  
MULTIENGINE VEHICLES  
MULTISTAGE ROCKET VEHICLES  
NATIONAL LAUNCH VEHICLE PROGRAM  
ROCKET CATAPULTS  
ROCKET ENGINES  
ROCKET LAUNCHERS  
ROCKET LAUNCHING  
ROCKET VEHICLES  
∞ ROCKETS  
SATURN PROJECT  
SCOUT PROJECT  
SPACE PROCESSING APPLICATIONS  
ROCKET  
∞ SPACECRAFT  
SPACECRAFT LAUNCHING  
SUSTAINER ROCKET ENGINES  
TEST VEHICLES  
TITAN PROJECT  
∞ VEHICLES  
VERNIER ENGINES  
∞ WINGED VEHICLES

### LAUNCH WINDOWS

UF LAUNCH TIME  
GS WINDOWS (INTERVALS)  
LAUNCH WINDOWS  
RT LAUNCHING  
ROCKET LAUNCHING  
SPACECRAFT LAUNCHING

### LAUNCHERS

UF LAUNCHING DEVICES  
GS LAUNCHERS  
AIRCRAFT LAUNCHING DEVICES  
JATO ENGINES  
CATAPULTS  
ROCKET CATAPULTS  
GUN LAUNCHERS  
HYPERVELOCITY LAUNCHERS  
MISSILE LAUNCHERS  
MOBILE MISSILE LAUNCHERS  
ROCKET LAUNCHERS  
ROCKET CATAPULTS  
RT LAUNCH VEHICLES  
LAUNCHING

**LAUNCHERS-(CONT.)**

LAUNCHING PADS  
LAUNCHING SITES  
MASS DRIVERS  
NATIONAL LAUNCH VEHICLE PROGRAM  
ROCKET LAUNCHING  
TITAN PROJECT

**LAUNCHING**

GS **LAUNCHING**  
 . AIR LAUNCHING  
 . ROCKET LAUNCHING  
 . LIFTOFF (LAUNCHING)  
 . LUNAR LAUNCH  
 . ORBITAL LAUNCHING  
 . SEA LAUNCHING  
 . SPACECRAFT LAUNCHING  
 . LIFTOFF (LAUNCHING)  
 RT COUNTDOWN  
 EXHAUST CLOUDS  
 LAUNCH DATES  
 LAUNCH VEHICLES  
 LAUNCH WINDOWS  
 LAUNCHERS  
 MISSILE LAUNCHERS  
 NATIONAL LAUNCH VEHICLE PROGRAM  
 PRELAUNCH TESTS  
 ROCKET LAUNCHERS  
 ∞ SHOT  
 STARTING  
 TITAN PROJECT

**LAUNCHING DEVICES**

USE LAUNCHERS

**LAVAL NUMBER**

GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . LAVAL NUMBER

**∞ LAYERS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
 UF LAMINA  
 PLIES  
 RT ANTICLINES  
 ATMOSPHERIC BOUNDARY LAYER  
 BARRIER LAYERS  
 BOUNDARY LAYERS  
 COATINGS  
 DEEP SCATTERING LAYERS  
 EARTH IONOSPHERE  
 EKMAN LAYER  
 FLAT LAYERS  
 FOLDS (GEOLOGY)  
 FORMATIONS  
 GEOSYNCLINES  
 INTERCALATION  
 INTERLAYERS  
 LAMINATES  
 MEMBRANES  
 MIXING LAYERS (FLUIDS)  
 MONOMOLECULAR FILMS  
 MULTILAYER INSULATION  
 PLASMA LAYERS  
 PLY ORIENTATION  
 REGIONS  
 SEDIMENTARY ROCKS  
 SHEAR LAYERS  
 SHOCK LAYERS  
 STRATA  
 STRATIFICATION  
 SUBSTRATES  
 SURFACE LAYERS  
 SYNCLINES  
 THREE DIMENSIONAL BOUNDARY LAYER  
 TURBULENT BOUNDARY LAYER

**LEADING EDGE FLAPS**

GS AIRFOILS  
 . FLAPS (CONTROL SURFACES)  
 . WING FLAPS  
 . LEADING EDGE FLAPS  
 BRAKES (FOR ARRESTING MOTION)  
 . AERODYNAMIC BRAKES  
 . WING FLAPS  
 . LEADING EDGE FLAPS  
 CONTROL SURFACES  
 . FLAPS (CONTROL SURFACES)  
 . WING FLAPS  
 . LEADING EDGE FLAPS  
 DRAG DEVICES  
 . AERODYNAMIC BRAKES  
 . WING FLAPS

**LEADING EDGE FLAPS-(CONT.)**

RT AIRCRAFT STRUCTURES  
 VORTEX FLAPS  
 ∞ WINGED VEHICLES  
 WINGS

**LEADING EDGE SLATS**

UF WING SLATS  
 GS AIRFOILS  
 . FLAPS (CONTROL SURFACES)  
 . WING FLAPS  
 . LEADING EDGE SLATS  
 BRAKES (FOR ARRESTING MOTION)  
 . AERODYNAMIC BRAKES  
 . WING FLAPS  
 . LEADING EDGE SLATS  
 AIRCRAFT BRAKES  
 . WING FLAPS  
 . LEADING EDGE SLATS  
 CONTROL SURFACES  
 . FLAPS (CONTROL SURFACES)  
 . WING FLAPS  
 . LEADING EDGE SLATS  
 DRAG DEVICES  
 . AERODYNAMIC BRAKES  
 . WING FLAPS  
 . LEADING EDGE SLATS  
 RT BOUNDARY LAYER CONTROL  
 SPLIT FLAPS  
 SPOILERS  
 TRAILING EDGE FLAPS  
 WING SLOTS

**LEADING EDGE SWEEP**

GS GEOMETRY  
 . EUCLIDEAN GEOMETRY  
 . ANGLES (GEOMETRY)  
 . SWEEP ANGLE  
 . SWEEPBACK  
 . LEADING EDGE SWEEP

**LEADING EDGE THRUST**

GS THRUST  
 . LEADING EDGE THRUST  
 RT AERODYNAMIC FORCES  
 AIRFOILS  
 LEADING EDGES  
 LIFT  
 WING LOADING

**LEADING EDGES**

GS EDGES  
 . LEADING EDGES  
 . BLUNT LEADING EDGES  
 . SHARP LEADING EDGES  
 RT AIRFOILS  
 FOREBODIES  
 LEADING EDGE THRUST  
 THRUST DISTRIBUTION  
 TRAILING EDGES  
 VORTEX FLAPS

**LEAR JET AIRCRAFT**

GS COMMERCIAL AIRCRAFT  
 . LEAR JET AIRCRAFT  
 JET AIRCRAFT  
 . LEAR JET AIRCRAFT  
 RT ∞ AIRCRAFT

**LEAST SQUARES METHOD**

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . APPROXIMATION  
 . LEAST SQUARES METHOD  
 RT CORRELATION  
 CURVE FITTING  
 GAUSS-MARKOV THEOREM  
 MEAN SQUARE VALUES  
 ∞ METHODOLOGY  
 OPTIMIZATION  
 PARAMETER IDENTIFICATION  
 QUALITY CONTROL  
 REGRESSION ANALYSIS  
 SIMULTANEOUS EQUATIONS

**LEE WAVES**

RT AIR CURRENTS  
 BAROTROPIC FLOW  
 SURFACE WAVES  
 TROPOSPHERIC WAVES  
 VERTICAL AIR CURRENTS

**LEIDENFROST PHENOMENON**

GS PHASE TRANSFORMATIONS

**LEIDENFROST PHENOMENON-(CONT.)**

. VAPORIZING  
 . BOILING  
 . NUCLEATE BOILING  
 . LEIDENFROST PHENOMENON  
 RT FILM BOILING  
 HEAT TRANSFER

**LENNARD-JONES GAS**

RT BINARY FLUIDS  
 GAS VISCOSITY  
 LENNARD-JONES POTENTIAL

**LENNARD-JONES POTENTIAL**

RT COMPUTERIZED SIMULATION  
 INTERMOLECULAR FORCES  
 LENNARD-JONES GAS  
 MOLECULAR INTERACTIONS  
 POTENTIAL THEORY

**LENTICULAR BODIES**

GS SYMMETRICAL BODIES  
 . LENTICULAR BODIES  
 RT AXISYMMETRIC BODIES  
 ∞ BODIES  
 CONVEXITY

**∞ LEVEL**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
 RT CHEMICAL ENERGY  
 FREE ENERGY  
 HEIGHT  
 INTERNAL ENERGY  
 LEVEL (HORIZONTAL)  
 LEVEL (QUANTITY)

**LEVITATION**

GS LEVITATION  
 . ACOUSTIC LEVITATION  
 RT BUOYANCY  
 ELECTROSTATIC GYROSCOPES  
 FLOTATION  
 FRICTIONLESS ENVIRONMENTS  
 LEVITATION MELTING  
 MAGNETIC BEARINGS  
 MAGNETIC LEVITATION VEHICLES  
 SUSPENSION SYSTEMS (VEHICLES)  
 VACUUM MELTING

**LEWIS NUMBERS**

GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . LEWIS NUMBERS  
 RT DENSITY (MASS/VOLUME)  
 DIFFUSION COEFFICIENT  
 FLUID FLOW  
 HEAT TRANSFER  
 MASS FLOW  
 MASS TRANSFER  
 SPECIFIC HEAT  
 THERMAL CONDUCTIVITY

**LIFE RAFTS**

GS RAFTS  
 . LIFE RAFTS  
 RT FLOATS  
 INFLATABLE STRUCTURES  
 LIFEBOATS

**LIFT**

UF AERODYNAMIC LIFT  
 LIFT COEFFICIENTS  
 LIFT DISTRIBUTION  
 LIFT FORCES  
 VARIABLE LIFT  
 GS AERODYNAMIC CHARACTERISTICS  
 . LIFT  
 . INTERFERENCE LIFT  
 . JET LIFT  
 . ROTOR LIFT  
 . ZERO LIFT  
 AERODYNAMIC FORCES  
 . LIFT  
 . INTERFERENCE LIFT  
 . JET LIFT  
 . ROTOR LIFT  
 . ZERO LIFT  
 DYNAMIC CHARACTERISTICS  
 . LIFT  
 . INTERFERENCE LIFT  
 . JET LIFT  
 . ROTOR LIFT  
 . ZERO LIFT

## LIFT AUGMENTATION

### LIFT-(CONT.)

RT AERODYNAMIC COEFFICIENTS  
AERODYNAMIC CONFIGURATIONS  
AERODYNAMIC DRAG  
AERODYNAMICS  
AIRFOILS  
ANGLE OF ATTACK  
ASPECT RATIO  
CAMBER  
DISTRIBUTION (PROPERTY)  
DRAG  
EXTERNALLY BLOWN FLAPS  
GLIDING  
GROUND EFFECT (AERODYNAMICS)  
HYPERSONIC FORCES  
LEADING EDGE THRUST  
PRESSURE DISTRIBUTION  
SWEEP EFFECT  
UNDER SURFACE BLOWING  
UPPER SURFACE BLOWING

### LIFT AUGMENTATION

RT BOUNDARY LAYER CONTROL  
CIRCULATION CONTROL AIRFOILS  
DOWNWASH  
PERIPHERAL JET FLOW  
SPANWISE BLOWING  
UPPER SURFACE BLOWN FLAPS  
VORTEX FLAPS

### LIFT COEFFICIENTS

USE AERODYNAMIC COEFFICIENTS  
LIFT

### LIFT DEVICES

UF LIFTING SURFACES  
RT BOUNDARY LAYER CONTROL  
∞ DEVICES  
DIRECT LIFT CONTROLS  
DRAG DEVICES  
EXTERNALLY BLOWN FLAPS  
FLAPS (CONTROL SURFACES)  
MAGNETIC LEVITATION VEHICLES  
SLOTS  
UPPER SURFACE BLOWN FLAPS

### LIFT DISTRIBUTION

USE FORCE DISTRIBUTION  
LIFT

### LIFT DRAG RATIO

UF DRAG BALANCE  
GS RATIOS  
RT . LIFT DRAG RATIO  
AERODYNAMIC BALANCE  
AERODYNAMIC COEFFICIENTS  
AERODYNAMIC DRAG  
AERODYNAMIC STALLING  
BOUNDARY LAYER SEPARATION  
DRAG REDUCTION  
FORCE DISTRIBUTION  
PRESSURE RATIO

### LIFT FANS

UF FANLIFT DEVICES  
RT DUCTED FANS  
FAN IN WING AIRCRAFT  
LIFTING ROTORS  
PROPELLER FANS  
ROTARY WINGS  
SHORT TAKEOFF AIRCRAFT  
TURBOFANS  
VERTICAL TAKEOFF AIRCRAFT  
XV-11A AIRCRAFT

### LIFT FORCES

USE LIFT

### LIFTING BODIES

UF LIFTING SURFACES  
GS LIFTING BODIES  
. LIFTING REENTRY VEHICLES  
. FDL-5 REENTRY VEHICLE  
. HL-10 REENTRY VEHICLE  
. HLD-35 REENTRY VEHICLE  
. JANUS SPACECRAFT  
. M-2 LIFTING BODY  
. M-2F2 LIFTING BODY  
. X-20 AIRCRAFT  
. X-24 AIRCRAFT  
. M-2F3 LIFTING BODY  
RT AERODYNAMIC CONFIGURATIONS  
AIRFOILS  
BLUFF BODIES  
∞ BODIES

### LIFTING BODIES-(CONT.)

∞ DEVICES  
LUNAR FLYING VEHICLES  
REENTRY VEHICLES  
TOWED BODIES  
WAVERIDERS

### LIFTING REENTRY VEHICLES

UF REENTRY GLIDERS  
SPACE GLIDERS  
GS LIFTING BODIES  
. LIFTING REENTRY VEHICLES  
. FDL-5 REENTRY VEHICLE  
. HL-10 REENTRY VEHICLE  
. HLD-35 REENTRY VEHICLE  
. JANUS SPACECRAFT  
. M-2 LIFTING BODY  
. M-2F2 LIFTING BODY  
. X-20 AIRCRAFT  
. X-24 AIRCRAFT  
REENTRY VEHICLES  
MANEUVERABLE REENTRY BODIES  
. LIFTING REENTRY VEHICLES  
. FDL-5 REENTRY VEHICLE  
. HL-10 REENTRY VEHICLE  
. HLD-35 REENTRY VEHICLE  
. JANUS SPACECRAFT  
. M-2 LIFTING BODY  
. M-2F2 LIFTING BODY  
. X-20 AIRCRAFT  
. X-24 AIRCRAFT  
RT AEROSPACE PLANES  
∞ AIRCRAFT  
ASSET GLIDERS  
ASTRO VEHICLE  
BOOSTGLIDE VEHICLES  
GLIDERS  
HYPERSONIC GLIDERS  
MANNED REENTRY  
MANNED SPACECRAFT  
RECOVERABLE SPACECRAFT  
REENTRY  
SPACECRAFT REENTRY

### LIFTING ROTORS

GS AIRFOILS  
. WINGS  
. ROTARY WINGS  
. . . LIFTING ROTORS  
. . . BEARINGLESS ROTORS  
ROTATING BODIES  
. ROTORS  
. ROTARY WINGS  
. . . LIFTING ROTORS  
. . . BEARINGLESS ROTORS  
RT GROUND EFFECT MACHINES  
LIFT FANS  
ROTARY WING AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT

### LIFTING SURFACES

USE LIFT DEVICES  
LIFTING BODIES  
SURFACES

### LIFTOFF (LAUNCHING)

GS LAUNCHING  
. ROCKET LAUNCHING  
. LIFTOFF (LAUNCHING)  
. SPACECRAFT LAUNCHING  
. LIFTOFF (LAUNCHING)  
RT BOOSTER ROCKET ENGINES  
COUNTDOWN  
LAUNCHING PADS  
ROCKET FIRING  
ROCKET THRUST

### LIGHT AIRBORNE MULTIPURPOSE SYSTEM

UF LAMPS PROGRAM  
GS NAVIGATION AIDS  
. LIGHT AIRBORNE MULTIPURPOSE  
SYSTEM  
ONBOARD EQUIPMENT  
. AIRBORNE EQUIPMENT  
. LIGHT AIRBORNE MULTIPURPOSE  
SYSTEM  
RT AIRCRAFT EQUIPMENT  
FLIGHT INSTRUMENTS  
NAVIGATION INSTRUMENTS  
∞ SYSTEMS

### LIGHT AIRCRAFT

GS LIGHT AIRCRAFT  
. BEECH 99 AIRCRAFT

### LIGHT AIRCRAFT-(CONT.)

. BEECHCRAFT 18 AIRCRAFT  
. C-33 AIRCRAFT  
. C-35 AIRCRAFT  
. CESSNA L-19 AIRCRAFT  
. CESSNA 172 AIRCRAFT  
. CESSNA 205 AIRCRAFT  
. CESSNA 210 AIRCRAFT  
. CESSNA 402B AIRCRAFT  
. DH 125 AIRCRAFT  
. DO-27 AIRCRAFT  
. DO-28 AIRCRAFT  
. F-28 HELICOPTER  
. FIREBEE 2 TARGET DRONE AIRCRAFT  
. G-1 AIRCRAFT  
. G-91 AIRCRAFT  
. LIGHT HELICOPTERS  
. OH-4 HELICOPTER  
. OH-5 HELICOPTER  
. OH-6 HELICOPTER  
. OH-58 HELICOPTER  
. LIGHT INTRATHEATER TRANSPORT  
. MH-262 AIRCRAFT  
. MYSTERE 20 AIRCRAFT  
. OH-13 HELICOPTER  
. OH-23 HELICOPTER  
. P-166 AIRCRAFT  
. PD-808 AIRCRAFT  
. PIPER AIRCRAFT  
. PA-34 SENECA AIRCRAFT  
. SAAB 105 AIRCRAFT  
. SC-7 AIRCRAFT  
. U-10 AIRCRAFT  
. VZ-8 AIRCRAFT  
. YAK 40 AIRCRAFT  
RT AGRICULTURAL AIRCRAFT  
∞ AIRCRAFT  
BIPLANES  
DRONE AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
∞ LOW WING AIRCRAFT  
∞ MILITARY AIRCRAFT  
MYSTERE 50 AIRCRAFT  
OBSERVATION AIRCRAFT  
PASSENGER AIRCRAFT  
PILOTLESS AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
SUBMERSIBLE AIRCRAFT  
∞ SUBSONIC AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
TRAINING AIRCRAFT  
TRANSPORT AIRCRAFT  
ULTRALIGHT AIRCRAFT  
UTILITY AIRCRAFT  
WATER TAKEOFF AND LANDING  
AIRCRAFT

### LIGHT ARMED RECONNAISSANCE AIRCRAFT

USE COIN AIRCRAFT

### LIGHT GAS GUNS

GS GAS GUNS  
. LIGHT GAS GUNS  
RT HYPERVELOCITY PROJECTILES

### LIGHT HELICOPTERS

GS LIGHT AIRCRAFT  
. LIGHT HELICOPTERS  
. OH-4 HELICOPTER  
. OH-5 HELICOPTER  
. OH-6 HELICOPTER  
. OH-58 HELICOPTER  
V/STOL AIRCRAFT  
. ROTARY WING AIRCRAFT  
. HELICOPTERS  
. . . LIGHT HELICOPTERS  
. . . OH-4 HELICOPTER  
. . . OH-5 HELICOPTER  
. . . OH-6 HELICOPTER  
. . . OH-58 HELICOPTER  
RT ∞ AIRCRAFT  
MILITARY HELICOPTERS  
OBSERVATION AIRCRAFT

### LIGHT INTRATHEATER TRANSPORT

GS LIGHT AIRCRAFT  
. LIGHT INTRATHEATER TRANSPORT  
TRANSPORT AIRCRAFT  
. LIGHT INTRATHEATER TRANSPORT  
RT ∞ AIRCRAFT  
COIN AIRCRAFT

### LIGHT SCATTERING METERS

GS MEASURING INSTRUMENTS  
. OPTICAL MEASURING INSTRUMENTS

**LIGHT SCATTERING METERS-(CONT.)**

.. LIGHT SCATTERING METERS  
 . OPTICAL EQUIPMENT  
 . OPTICAL MEASURING INSTRUMENTS  
 . LIGHT SCATTERING METERS  
 RT METEOROLOGICAL INSTRUMENTS

**LIGHT TRANSPORT AIRCRAFT**

GS COMMERCIAL AIRCRAFT  
 . LIGHT TRANSPORT AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . LIGHT TRANSPORT AIRCRAFT  
 RT ∞ AIRCRAFT  
 MULTIENGINE VEHICLES  
 PASSENGER AIRCRAFT

**LIGHTHILL GAS MODEL**

GS MODELS  
 . LIGHTHILL GAS MODEL  
 RT BOUNDARY LAYER FLOW  
 GAS MIXTURES  
 GAS TRANSPORT  
 HYPERSONIC FLOW  
 MOLECULAR THEORY  
 TRANSPORT PROPERTIES

**LIGHTHILL METHOD**

RT AIRFOIL PROFILES  
 AIRFOILS  
 CONFORMAL MAPPING  
 FLOW THEORY  
 INTEGRAL TRANSFORMATIONS  
 ∞ METHODOLOGY

**LINEAR EQUATIONS**

GS ALGEBRA  
 . LINEAR EQUATIONS  
 . LINEAR EVOLUTION EQUATIONS  
 . RICCATI EQUATION  
 ANALYSIS (MATHEMATICS)  
 . REAL VARIABLES  
 . LINEAR EQUATIONS  
 . LINEAR EVOLUTION EQUATIONS  
 . RICCATI EQUATION  
 RT DETERMINANTS  
 DIFFERENTIAL EQUATIONS  
 ∞ EQUATIONS  
 FLOQUET THEOREM  
 GAUSSIAN ELIMINATION  
 LINEAR OPERATORS  
 MATRICES (MATHEMATICS)  
 OPERATIONAL CALCULUS  
 POLYNOMIALS

**LINEAR EVOLUTION EQUATIONS**

GS ALGEBRA  
 . LINEAR EQUATIONS  
 . LINEAR EVOLUTION EQUATIONS  
 ANALYSIS (MATHEMATICS)  
 . REAL VARIABLES  
 . LINEAR EQUATIONS  
 . LINEAR EVOLUTION EQUATIONS  
 RT DIFFERENCE EQUATIONS  
 ∞ EQUATIONS

**LINEAR QUADRATIC GAUSSIAN CONTROL**

UF LQG CONTROL  
 GS AUTOMATIC CONTROL  
 . OPTIMAL CONTROL  
 . LINEAR QUADRATIC REGULATOR  
 . LINEAR QUADRATIC GAUSSIAN CONTROL  
 OPTIMIZATION  
 . OPTIMAL CONTROL  
 . LINEAR QUADRATIC REGULATOR  
 . LINEAR QUADRATIC GAUSSIAN CONTROL  
 RT ∞ CONTROL  
 CONTROL SYSTEMS DESIGN  
 CONTROL THEORY  
 FEEDBACK CONTROL  
 KALMAN FILTERS

**LINEAR QUADRATIC REGULATOR**

UF LINEAR REGULATOR  
 LQR  
 GS AUTOMATIC CONTROL  
 . OPTIMAL CONTROL  
 . LINEAR QUADRATIC REGULATOR  
 . LINEAR QUADRATIC GAUSSIAN CONTROL  
 OPTIMIZATION  
 . OPTIMAL CONTROL  
 . LINEAR QUADRATIC REGULATOR

**LINEAR QUADRATIC REGULATOR-(CONT.)**

.. LINEAR QUADRATIC GAUSSIAN CONTROL  
 RT ∞ CONTROL  
 CONTROL SYSTEMS DESIGN  
 CONTROL THEORY  
 CONTROLLERS  
 FEEDBACK CONTROL  
 KALMAN FILTERS

**LINEAR REGULATOR**

USE LINEAR QUADRATIC REGULATOR

**LINEAR VIBRATION**

GS VIBRATION  
 . STRUCTURAL VIBRATION  
 . LINEAR VIBRATION  
 RT FREE VIBRATION  
 MISSILE VIBRATION  
 RANDOM VIBRATION  
 VIBRATION MODE

**LINEARIZATION**

RT BERNOULLI THEOREM  
 ∞ EQUATIONS  
 GALERKIN METHOD  
 LINEARITY  
 SIMPLIFICATION

**LING-TEMCO-VOUGHT AIRCRAFT**

UF LTV AIRCRAFT  
 GS LING-TEMCO-VOUGHT AIRCRAFT  
 . A-7 AIRCRAFT  
 . F-8 AIRCRAFT  
 . XC-142 AIRCRAFT  
 RT ∞ AIRCRAFT

**LIQVILLE EQUATIONS**

GS ANALYSIS (MATHEMATICS)  
 . REAL VARIABLES  
 . DIFFERENTIAL EQUATIONS  
 . PARTIAL DIFFERENTIAL EQUATIONS  
 . LIQVILLE EQUATIONS  
 RT ∞ EQUATIONS  
 PLASMA PHYSICS  
 PLASMAS (PHYSICS)  
 STATISTICAL MECHANICS

**LIQUEFIED GASES**

GS GASES  
 . LIQUEFIED GASES  
 . LIQUEFIED NATURAL GAS  
 . LIQUID AIR  
 . LIQUID AMMONIA  
 . LIQUID FLUORINE  
 . LIQUID HELIUM  
 . LIQUID HELIUM 2  
 . LIQUID HYDROGEN  
 . LIQUID NEON  
 . LIQUID NITROGEN  
 . LIQUID OXYGEN  
 LIQUIDS  
 . LIQUEFIED GASES  
 . LIQUEFIED NATURAL GAS  
 . LIQUID AIR  
 . LIQUID AMMONIA  
 . LIQUID FLUORINE  
 . LIQUID HELIUM  
 . LIQUID HELIUM 2  
 . LIQUID HYDROGEN  
 . LIQUID NEON  
 . LIQUID NITROGEN  
 . LIQUID OXYGEN  
 RT CONDENSATES  
 CONDENSERS (LIQUEFIERS)  
 CRYOGENIC ROCKET PROPELLANTS  
 CRYOGENICS  
 GAS MIXTURES  
 LIQUID ROCKET PROPELLANTS  
 SOLID CRYOGEN COOLING

**LIQUEFIED NATURAL GAS**

UF LNG  
 GS FUELS  
 . CHEMICAL FUELS  
 . HYDROCARBON FUELS  
 . LIQUEFIED NATURAL GAS  
 GASES  
 . FLAMMABLE GASES  
 . LIQUEFIED NATURAL GAS  
 . LIQUEFIED GASES  
 . LIQUEFIED NATURAL GAS  
 LIQUIDS  
 . LIQUEFIED GASES  
 . LIQUEFIED NATURAL GAS

**LIQUEFIED NATURAL GAS-(CONT.)**

ORGANIC COMPOUNDS  
 . HYDROCARBONS  
 . LIQUEFIED NATURAL GAS  
 RT METHANE  
 NATURAL GAS

**LIQUID AIR CYCLE ENGINES**

UF LACE (ENGINE)  
 GS ENGINES  
 . ROCKET ENGINES  
 . LIQUID PROPELLANT ROCKET ENGINES  
 . LIQUID AIR CYCLE ENGINES  
 RT AEROSPACE PLANES  
 HYDROGEN OXYGEN ENGINES  
 SUSTAINER ROCKET ENGINES  
 TURBOROCKET ENGINES

**LIQUID BREATHING**

GS RESPIRATION  
 . LIQUID BREATHING  
 RT ACCLIMATIZATION  
 PRESSURE BREATHING  
 RESUSCITATION

**LIQUID COOLING**

SN (COOLING WITH LIQUIDS)  
 UF WATER COOLING  
 GS COOLING  
 . LIQUID COOLING  
 . FILM COOLING  
 RT AIR COOLING  
 COOLANTS  
 COOLING SYSTEMS  
 SODIUM COOLING  
 SPACE COOLING (BUILDINGS)  
 SWEAT COOLING  
 THERMAL POLLUTION  
 WATER IMMERSION

**LIQUID DROPS**

USE DROPS (LIQUIDS)

**LIQUID FILLED SHELLS**

GS SHELLS (STRUCTURAL FORMS)  
 . FLUID FILLED SHELLS  
 . LIQUID FILLED SHELLS  
 RT HYDRODYNAMIC RAM EFFECT  
 PROPELLANT TANKS  
 REINFORCED SHELLS  
 SHELL STABILITY  
 ∞ STORAGE  
 TANKS (CONTAINERS)  
 ∞ VESSELS

**LIQUID FLOW**

GS FLUID FLOW  
 . LIQUID FLOW  
 . OPEN CHANNEL FLOW  
 . WATER FLOW  
 RT CRITICAL FLOW  
 GAS FLOW  
 HEAD (FLUID MECHANICS)  
 HEAD FLOW  
 HYDRODYNAMIC COEFFICIENTS  
 LAMINAR FLOW  
 MASS FLOW  
 MULTIPHASE FLOW  
 NONNEWTONIAN FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE GRADIENTS  
 PRESSURE HEADS  
 RHEOLOGY  
 SINGLE-PHASE FLOW  
 SORET COEFFICIENT  
 STEADY FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENT FLOW  
 TWO PHASE FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW

**LIQUID HELIUM 2**

GS CHEMICAL ELEMENTS  
 . RARE GASES  
 . HELIUM  
 . LIQUID HELIUM  
 . LIQUID HELIUM 2  
 GASES  
 . LIQUEFIED GASES  
 . LIQUID HELIUM  
 . LIQUID HELIUM 2

## LIQUID INJECTION

### LIQUID HELIUM 2-(CONT.)

. RARE GASES  
 . . . HELIUM  
 . . . LIQUID HELIUM  
 . . . LIQUID HELIUM 2  
 LIQUIDS  
 . CRYOGENIC FLUIDS  
 . . . LIQUID HELIUM  
 . . . LIQUID HELIUM 2  
 . LIQUEFIED GASES  
 . . . LIQUID HELIUM  
 . . . LIQUID HELIUM 2  
 RT CRYOSTATS  
 SUPERFLUIDITY

### LIQUID INJECTION

GS INJECTION  
 . FLUID INJECTION  
 . . . LIQUID INJECTION  
 . . . DEEP WELL INJECTION (WASTES)  
 . . . WATER INJECTION  
 RT FILM COOLING  
 FUEL INJECTION  
 FUEL SPRAYS  
 MIXING  
 PROPELLANT SPRAYS  
 THRUST VECTOR CONTROL

### LIQUID OXIDIZERS

GS LIQUIDS  
 . LIQUID OXIDIZERS  
 OXIDIZERS  
 . LIQUID OXIDIZERS  
 RT ROCKET OXIDIZERS

### LIQUID PHASES

RT ALLOYS  
 CRITICAL PRESSURE  
 ELECTROEPITAXY  
 EUTECTICS  
 LIQUID PHASE EPITAXY  
 LIQUIDS  
 LIQUIDUS  
 MELTING POINTS  
 PHASE DIAGRAMS  
 PHASE SEPARATION (MATERIALS)  
 ∞ PHASES  
 . SOLID PHASES  
 . SOLID SOLUTIONS  
 . SOLIDUS  
 . SOLUBILITY  
 . SUPERCRITICAL PRESSURES  
 . SYNTACTIC ALLOYS  
 . TRANSITION TEMPERATURE  
 . VAPOR PHASE EPITAXY  
 . VAPOR PHASES

### LIQUID ROTATION

USE ROTATING LIQUIDS

### LIQUID SLOSHING

UF SLOSHING  
 RT AERODYNAMIC STABILITY  
 AIRCRAFT STABILITY  
 BAFFLES  
 CONTROLLABILITY  
 FUEL CONTROL  
 FUEL TANKS  
 INTERFACE STABILITY  
 PROPELLANT TANKS  
 PROPELLANT TRANSFER  
 ROTATING FLUIDS  
 SPACECRAFT STABILITY  
 STORAGE STABILITY  
 TANK GEOMETRY  
 ULLAGE

### LIQUID SURFACES

GS LIQUID SURFACES  
 . MENISCI  
 RT FLUID BOUNDARIES  
 FREE BOUNDARIES  
 INTERFACIAL TENSION  
 JET BOUNDARIES  
 SOLID SURFACES  
 SURFACE WAVES  
 ∞ SURFACES

### LIQUID-GAS MIXTURES

GS MIXTURES  
 . DISPERSIONS  
 . . . LIQUID-GAS MIXTURES  
 . . . AEROSOLS  
 . . . FOG  
 RT AIR WATER INTERACTIONS

### LIQUID-GAS MIXTURES-(CONT.)

BINARY MIXTURES  
 GAS MIXTURES  
 MENISCI  
 SOLUBILITY  
 VAPOR PHASES  
 VAPOR PRESSURE

### LIQUID-LIQUID INTERFACES

GS BOUNDARIES  
 . FLUID BOUNDARIES  
 . . . LIQUID-LIQUID INTERFACES  
 INTERFACES  
 . FLUID BOUNDARIES  
 . . . LIQUID-LIQUID INTERFACES  
 RT BOUNDARY LAYERS  
 FREE BOUNDARIES  
 HEAT TRANSFER  
 INTERFACE STABILITY  
 INTERFACIAL ENERGY  
 INTERFACIAL TENSION  
 PRESSURE GRADIENTS  
 SOLUBILITY

### LIQUID-SOLID INTERFACES

GS BOUNDARIES  
 . FLUID BOUNDARIES  
 . . . LIQUID-SOLID INTERFACES  
 INTERFACES  
 . FLUID BOUNDARIES  
 . . . LIQUID-SOLID INTERFACES  
 RT BOUNDARY LAYERS  
 FLUID FILMS  
 FLUID-SOLID INTERACTIONS  
 ∞ FUSION  
 . HEAT TRANSFER  
 . INTERFACE STABILITY  
 . MELTING  
 . MENISCI  
 . METAL SURFACES  
 . PHASE CHANGE MATERIALS  
 . SOLID PHASES  
 . SOLID-SOLID INTERFACES  
 . SQUEEZE FILMS

### LIQUID-VAPOR INTERFACES

GS BOUNDARIES  
 . FLUID BOUNDARIES  
 . . . LIQUID-VAPOR INTERFACES  
 INTERFACES  
 . FLUID BOUNDARIES  
 . . . LIQUID-VAPOR INTERFACES  
 RT AIR WATER INTERACTIONS  
 EVAPORATION  
 FREE BOUNDARIES  
 HEAT TRANSFER  
 INTERFACE STABILITY  
 MENISCI  
 PRESSURE GRADIENTS  
 SOLUBILITY  
 VAPOR PHASES  
 VAPOR PRESSURE

### LIQUIDS

GS LIQUIDS  
 . CRYOGENIC FLUIDS  
 . . . FERMI LIQUIDS  
 . . . FLOX  
 . . . LIQUID HELIUM  
 . . . LIQUID HELIUM 2  
 . . . LIQUID HYDROGEN  
 . . . LIQUID NITROGEN  
 . . . LIQUID OXYGEN  
 . . . FERROFLUIDS  
 . . . HYDRAULIC FLUIDS  
 . . . SKYDROL (TRADEMARK)  
 . . . JUICES  
 . . . LIQUEFIED GASES  
 . . . LIQUEFIED NATURAL GAS  
 . . . LIQUID AIR  
 . . . LIQUID AMMONIA  
 . . . LIQUID FLUORINE  
 . . . LIQUID HELIUM  
 . . . LIQUID HELIUM 2  
 . . . LIQUID HYDROGEN  
 . . . LIQUID NEON  
 . . . LIQUID NITROGEN  
 . . . LIQUID OXYGEN  
 . . . LIQUID METALS  
 . . . LIQUID LITHIUM  
 . . . LIQUID POTASSIUM  
 . . . LIQUID SODIUM  
 . . . MERCURY (METAL)  
 . . . MERCURY VAPOR  
 . . . LIQUID OXIDIZERS

### LIQUIDS-(CONT.)

. ORGANIC LIQUIDS  
 . POTABLE LIQUIDS  
 . BEVERAGES  
 . . . WINES  
 . . . POTABLE WATER  
 . . . ROTATING LIQUIDS  
 RT ∞ FLUIDS  
 . GLOBULES  
 . GLYCEROLS  
 . LIQUID FUELS  
 . LIQUID PHASES  
 . LIQUID ROCKET PROPELLANTS  
 . NONPOINT SOURCES  
 . PHASE DIAGRAMS  
 . VAPOR PHASES  
 . WATER

### LITTLE JOE 2 LAUNCH VEHICLE

GS LAUNCH VEHICLES  
 . LITTLE JOE 2 LAUNCH VEHICLE  
 . ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . . LITTLE JOE 2 LAUNCH VEHICLE  
 RT ALGOL ENGINE  
 MERCURY PROJECT  
 SERGEANT MISSILES  
 SOLID PROPELLANT ROCKET ENGINES  
 TX-354 ENGINE  
 XM-33 ENGINE

### LITTLE JOHN ROCKET VEHICLE

GS ROCKET VEHICLES  
 . SINGLE STAGE ROCKET VEHICLES  
 . . . LITTLE JOHN ROCKET VEHICLE  
 . . . SURFACE TO SURFACE ROCKETS  
 . . . LITTLE JOHN ROCKET VEHICLE  
 RT HERCULES ENGINE  
 SOLID PROPELLANT ROCKET ENGINES

### LNG

USE LIQUEFIED NATURAL GAS

### LOAD DISTRIBUTION (FORCES)

GS DISTRIBUTION (PROPERTY)  
 . LOAD DISTRIBUTION (FORCES)  
 RT ∞ DISTRIBUTION

### LOAD TESTING MACHINES

RT ∞ MACHINERY  
 ∞ TEST EQUIPMENT

### LOAD TESTS

RT COMPRESSION TESTS  
 CREEP TESTS  
 DESTRUCTIVE TESTS  
 FATIGUE TESTS  
 IMPACT TESTS  
 LOADING RATE  
 NONDESTRUCTIVE TESTS  
 SHOCK TESTS  
 SPECIMEN GEOMETRY  
 SPIN TESTS  
 STATIC TESTS  
 TENSILE TESTS  
 ∞ TESTS

### ∞ LOADING

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)  
 UF DUMMY LOADS  
 RT FEEDING (SUPPLYING)  
 FILLING  
 INPUT  
 LOADING OPERATIONS  
 LOADS (FORCES)  
 PAYLOADS  
 REFILLING  
 REPLENISHMENT  
 SHAFTS (MACHINE ELEMENTS)  
 SWEEP EFFECT

### LOADING MOMENTS

GS MOMENTS  
 . LOADING MOMENTS  
 RT AERODYNAMIC LOADS  
 BENDING MOMENTS  
 FLEXING  
 LOADS (FORCES)  
 MASS DISTRIBUTION  
 MOMENT DISTRIBUTION  
 PRESSURE DISTRIBUTION  
 STATIC LOADS  
 STRUCTURAL ANALYSIS

**LOADING MOMENTS-(CONT.)**  
TORQUE

**LOADING RATE**

GS RATES (PER TIME)  
    . **LOADING RATE**  
RT IMPACT LOADS  
    LOAD TESTS  
    LOADS (FORCES)  
    STRAIN RATE  
    VELOCITY

**LOADING WAVES**

USE ELASTIC WAVES  
    LOADS (FORCES)

**LOCALIZATION**

USE POSITION (LOCATION)

**LOCATES SYSTEM**

UF LOCATION OF AIR TRAFFIC SATELLITES  
RT AIR TRAFFIC CONTROL  
    BEACON SATELLITES  
    NAVIGATION SATELLITES  
    SATELLITE GUIDANCE  
    ∞ SYSTEMS

**LOCATION**

USE POSITION (LOCATION)

**LOCATION OF AIR TRAFFIC SATELLITES**

USE LOCATES SYSTEM

**LOCKHEED AIRCRAFT**

GS **LOCKHEED AIRCRAFT**  
    . C-5 AIRCRAFT  
    . C-121 AIRCRAFT  
    . C-130 AIRCRAFT  
    . C-140 AIRCRAFT  
    . C-141 AIRCRAFT  
    . CL-823 AIRCRAFT  
    . EC-121 AIRCRAFT  
    . ELECTRA AIRCRAFT  
    . F-94 AIRCRAFT  
    . F-104 AIRCRAFT  
    . L-1011 AIRCRAFT  
    . L-2000 AIRCRAFT  
    . LOCKHEED MODEL 18 AIRCRAFT  
    . P-3 AIRCRAFT  
    . SR-71 AIRCRAFT  
    . T-33 AIRCRAFT  
    . U-2 AIRCRAFT  
    . XH-51 HELICOPTER  
    . XV-4 AIRCRAFT  
RT ∞ AIRCRAFT

**LOCKHEED C-5 AIRCRAFT**

USE C-5 AIRCRAFT

**LOCKHEED CL-595 HELICOPTER**

USE XH-51 HELICOPTER

**LOCKHEED CL-823 AIRCRAFT**

USE CL-823 AIRCRAFT

**LOCKHEED CONSTELLATION AIRCRAFT**

USE C-121 AIRCRAFT

**LOCKHEED L-2000 AIRCRAFT**

USE L-2000 AIRCRAFT

**LOCKHEED MODEL 18 AIRCRAFT**

GS **LOCKHEED AIRCRAFT**  
    . **LOCKHEED MODEL 18 AIRCRAFT**  
    MONOPLANES  
    . **LOCKHEED MODEL 18 AIRCRAFT**  
    TRANSPORT AIRCRAFT  
    . **LOCKHEED MODEL 18 AIRCRAFT**  
RT ∞ AIRCRAFT

**LOCKHEED U-2 AIRCRAFT**

USE U-2 AIRCRAFT

**LOCKHEED XV-4A AIRCRAFT**

USE XV-4 AIRCRAFT

**LOCKHEED 186 HELICOPTER**

USE XH-51 HELICOPTER

∞ **LOCKS**

SN (USE OF A MORE SPECIFIC TERM IS  
    RECOMMENDED--CONSULT THE TERMS  
    LISTED BELOW)

**LOCKS-(CONT.)**

RT AIR LOCKS  
    LOCKS (FASTENERS)

**LOCOMOTIVES**

RT DIESEL ENGINES  
    HANDLING EQUIPMENT  
    RAIL TRANSPORTATION  
    WINDSHIELDS

**LOH HELICOPTER**

USE OH-6 HELICOPTER

**LOKI ROCKET VEHICLE**

GS ROCKET VEHICLES  
    . SINGLE STAGE ROCKET VEHICLES  
    . . . **LOKI ROCKET VEHICLE**  
    . . . SOUNDING ROCKETS  
    . . . **LOKI ROCKET VEHICLE**  
RT SOLID PROPELLANT ROCKET ENGINES  
    WASP SOUNDING ROCKET

**LONG RANGE NAVIGATION**

USE LORAN  
    LORAN D

**LONGERONS**

UF ASTROMASTS  
GS STRUCTURAL MEMBERS  
    . **LONGERONS**  
RT KEELS  
    REINFORCEMENT (STRUCTURES)  
    RIBS (SUPPORTS)  
    STRAKES  
    STRINGERS  
    STRUCTURAL STABILITY

**LONGITUDE**

GS **LONGITUDE**  
    . SOLAR LONGITUDE  
RT COORDINATES  
    GEODETIC COORDINATES  
    LATITUDE  
    POSITION (LOCATION)

**LONGITUDE MEASUREMENT**

RT LATITUDE MEASUREMENT  
    ∞ MEASUREMENT  
    NAVIGATION  
    POSITIONING

**LONGITUDINAL CONTROL**

UF PITCH ATTITUDE CONTROL  
GS ATTITUDE CONTROL  
    . **LONGITUDINAL CONTROL**  
RT AIRCRAFT CONTROL  
    ALTITUDE CONTROL  
    AUTOMATIC CONTROL  
    ∞ CONTROL  
    DIRECTIONAL CONTROL  
    HELICOPTER CONTROL  
    LATERAL CONTROL  
    MANUAL CONTROL  
    MISSILE CONTROL  
    PILOT INDUCED OSCILLATION  
    PITCH (INCLINATION)  
    SATELLITE ATTITUDE CONTROL  
    SATELLITE CONTROL

**LONGITUDINAL STABILITY**

GS DYNAMIC CHARACTERISTICS  
    . DYNAMIC STABILITY  
    . . MOTION STABILITY  
    . . . ATTITUDE STABILITY  
    . . . . **LONGITUDINAL STABILITY**  
    STABILITY  
    . DYNAMIC STABILITY  
    . . MOTION STABILITY  
    . . . ATTITUDE STABILITY  
    . . . . **LONGITUDINAL STABILITY**  
RT AERODYNAMIC STABILITY  
    AIRCRAFT STABILITY  
    DIRECTIONAL STABILITY  
    FLOW STABILITY  
    HOVERING STABILITY  
    LATERAL STABILITY  
    PITCH (INCLINATION)  
    PITCHING MOMENTS  
    POGO EFFECTS  
    ROTARY STABILITY  
    SPACECRAFT STABILITY

**LONGITUDINAL WAVES**

GS **LONGITUDINAL WAVES**

**LONGITUDINAL WAVES-(CONT.)**

RT . PLANE WAVES  
    BEAMS (RADIATION)  
    DILATATIONAL WAVES  
    ELASTIC WAVES  
    ELECTROSTATIC WAVES  
    FREQUENCIES  
    NORMAL SHOCK WAVES  
    ∞ RADIATION  
    SEISMIC WAVES  
    SHOCK WAVES  
    SOLAR RADIATION  
    SOUND WAVES  
    TRANSVERSE WAVES  
    WAVE PACKETS  
    WAVELENGTHS  
    ∞ WAVES

**LORAC NAVIGATION SYSTEM**

GS NAVIGATION  
    . RADIO NAVIGATION  
    . . HYPERBOLIC NAVIGATION  
    . . . **LORAC NAVIGATION SYSTEM**  
RT DISTANCE MEASURING EQUIPMENT  
    NAVIGATION AIDS  
    NAVIGATION INSTRUMENTS  
    SURFACE NAVIGATION  
    ∞ SYSTEMS

**LORAN**

UF LONG RANGE NAVIGATION  
GS NAVIGATION  
    . RADIO NAVIGATION  
    . . HYPERBOLIC NAVIGATION  
    . . . **LORAN**  
    . . . . LORAN C  
    . . . . LORAN D  
RT AIR NAVIGATION  
    DECCA NAVIGATION  
    DISTANCE MEASURING EQUIPMENT  
    NAVIGATION AIDS  
    NAVIGATION INSTRUMENTS  
    POLAR NAVIGATION  
    SOLAR COMPASSES  
    SURFACE NAVIGATION  
    SURVEYS

**LORAN C**

GS NAVIGATION  
    . RADIO NAVIGATION  
    . . HYPERBOLIC NAVIGATION  
    . . . **LORAN**  
    . . . . **LORAN C**  
RT AIR NAVIGATION  
    DECCA NAVIGATION  
    NAVIGATION AIDS

**LORAN D**

UF LONG RANGE NAVIGATION  
GS NAVIGATION  
    . RADIO NAVIGATION  
    . . HYPERBOLIC NAVIGATION  
    . . . **LORAN**  
    . . . . **LORAN D**  
RT AIR NAVIGATION  
    DECCA NAVIGATION  
    NAVIGATION AIDS

**LORV**

USE LOW OBSERVABLE REENTRY VEHICLES

∞ **LOUNGES**

SN (USE OF A MORE SPECIFIC TERM IS  
    RECOMMENDED--CONSULT THE TERMS  
    LISTED BELOW)  
RT MOBILE LOUNGES  
    ROOMS  
    SEATS

**LOUVERS**

RT APERTURES  
    BAFFLES  
    ∞ DIFFUSERS  
    ∞ SCREENING  
    SHADES  
    SHIELDING  
    ∞ SHUTTERS  
    SLOTS  
    VENTS

**LOW ALTITUDE**

GS ALTITUDE  
    . **LOW ALTITUDE**  
RT ELEVATION  
    LOWER ATMOSPHERE

## LOW ASPECT RATIO

### LOW ALTITUDE-(CONT.)

MIDALTITUDE  
NAP-OF-THE-EARTH NAVIGATION

### LOW ASPECT RATIO

GS RATIOS  
. ASPECT RATIO  
. LOW ASPECT RATIO

### LOW ASPECT RATIO WINGS

UF DIAMOND WINGS  
GS AIRFOILS  
. WINGS  
. LOW ASPECT RATIO WINGS  
. DELTA WINGS  
. TRAPEZOIDAL WINGS  
RT CRUCIFORM WINGS  
FIXED WINGS  
RIGID WINGS  
WING PLANFORMS

### LOW DENSITY FLOW

RT  $\infty$  FLOW  
FLUID DYNAMICS  
MOLECULAR FLOW  
RAREFIED GAS DYNAMICS  
RAREFIED GASES

### LOW DENSITY GASES

USE RAREFIED GASES

### LOW DENSITY WIND TUNNELS

GS TEST FACILITIES  
. WIND TUNNELS  
. LOW DENSITY WIND TUNNELS  
RT HYPERSONIC WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
PLASMA JETS  
RAREFIED GAS DYNAMICS  
SHOCK TUBES  
SHOCK TUNNELS  
SLIP FLOW  
SUPERSONIC WIND TUNNELS

### LOW LEVEL TURBULENCE

GS TURBULENCE  
. ATMOSPHERIC TURBULENCE  
. LOW LEVEL TURBULENCE  
RT HOMOGENEOUS TURBULENCE

### LOW OBSERVABLE REENTRY VEHICLES

UF LORV  
GS REENTRY VEHICLES  
. LOW OBSERVABLE REENTRY VEHICLES  
RT RADAR CROSS SECTIONS  
REENTRY  
REENTRY PHYSICS  
 $\infty$  VEHICLES

### LOW PRESSURE

GS PRESSURE  
. LOW PRESSURE  
. HIGH ALTITUDE PRESSURE  
RT ALTITUDE TOLERANCE  
CYCLOGENESIS  
CYCLONES  
 $\infty$  DEPRESSION  
HIGH ALTITUDE ENVIRONMENTS  
HIGH PRESSURE  
HYPOBARIC ATMOSPHERES  
TROUGHS  
VACUUM

### LOW PRESSURE CHAMBERS

USE VACUUM CHAMBERS

### $\infty$ LOW RESISTANCE

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*  
RT CHEMICAL PROPERTIES  
ELECTRICAL RESISTANCE  
FLOW RESISTANCE  
MECHANICAL PROPERTIES  
 $\infty$  RESISTANCE  
THERMAL RESISTANCE  
TRANSDUCANCE

### LOW REYNOLDS NUMBER

SN (RN BELOW 2,000)  
GS RATIOS  
. DIMENSIONLESS NUMBERS  
. REYNOLDS NUMBER

### LOW REYNOLDS NUMBER-(CONT.)

RT  $\infty$  LOW REYNOLDS NUMBER  
HIGH REYNOLDS NUMBER  
LAMINAR FLOW  
VISCOSITY

### LOW SPEED

UF LOW VELOCITY  
GS RATES (PER TIME)  
. LOW SPEED  
VELOCITY  
. LOW SPEED  
RT AIRSPEED  
FLOW VELOCITY  
GROUND SPEED  
LANDING SPEED  
SUBSONIC SPEED

### LOW SPEED STABILITY

GS DYNAMIC CHARACTERISTICS  
. DYNAMIC STABILITY  
. MOTION STABILITY  
. LOW SPEED STABILITY  
STABILITY  
. DYNAMIC STABILITY  
. MOTION STABILITY  
. LOW SPEED STABILITY  
RT AERODYNAMIC STABILITY  
AERODYNAMIC STALLING  
AIRCRAFT STABILITY  
ATTITUDE STABILITY  
CONTROLLABILITY  
DYNAMIC TESTS  
FLIGHT CHARACTERISTICS  
FLOW STABILITY  
HOVERING STABILITY  
SPACECRAFT STABILITY

### LOW SPEED WIND TUNNELS

GS TEST FACILITIES  
. WIND TUNNELS  
. LOW SPEED WIND TUNNELS  
. SUBSONIC WIND TUNNELS  
RT BLOWDOWN WIND TUNNELS

### LOW TEMPERATURE

GS TEMPERATURE  
. LOW TEMPERATURE  
. CRYOGENIC TEMPERATURE  
RT BAY ICE  
COOLING  
CRYOGENICS  
FREEZING  
FROST  
FROST DAMAGE  
ICE FORMATION  
MAGNETIC COOLING  
PRESSURE ICE  
REFRIGERATING

### LOW TEMPERATURE TESTS

GS ENVIRONMENTAL TESTS  
. LOW TEMPERATURE TESTS  
RT CHEMICAL TESTS  
COLD STRENGTH  
COLD WEATHER TESTS  
CRYOSTATS  
HARDNESS TESTS  
LUBRICANT TESTS  
MELTING POINTS  
NONDESTRUCTIVE TESTS  
QUALITY CONTROL  
TEMPERATURE CONTROL  
 $\infty$  TESTS  
THERMAL EXPANSION  
THERMAL STABILITY

### LOW THRUST

GS THRUST  
. LOW THRUST  
. MICROTHRUST  
RT HIGH THRUST  
JET THRUST  
ROCKET THRUST  
VARIABLE THRUST

### LOW THRUST PROPULSION

GS PROPULSION  
. LOW THRUST PROPULSION  
. ELECTROMAGNETIC PROPULSION  
. ELECTROSTATIC PROPULSION  
. ION PROPULSION  
. MAN OPERATED PROPULSION SYSTEMS  
. PHOTONIC PROPULSION

### LOW THRUST PROPULSION-(CONT.)

. PLASMA PROPULSION  
. SOLAR PROPULSION  
. SOLAR ELECTRIC PROPULSION  
. SOLAR THERMAL PROPULSION  
RT ELECTRIC PROPULSION  
MICROTHRUST  
ROCKET THRUST  
SPACE STATION PROPULSION  
SPACECRAFT PROPULSION  
VARIABLE THRUST

### LOW TURBULENCE

GS TURBULENCE  
. LOW TURBULENCE  
RT STEADY FLOW

### LOW VELOCITY

USE LOW SPEED

### LOW VISIBILITY

GS VISIBILITY  
. LOW VISIBILITY  
RT AIRCRAFT LANDING  
ALL-WEATHER LANDING SYSTEMS  
HAZARDS  
HAZE  
INSTRUMENT FLIGHT RULES  
LIGHT TRANSMISSION

### LOW VOLUME RAMJET ENGINES

GS ENGINES  
. AIR BREATHING ENGINES  
. GAS TURBINE ENGINES  
. JET ENGINES  
. RAMJET ENGINES  
. LOW VOLUME RAMJET ENGINES  
INTERNAL COMBUSTION ENGINES  
. GAS TURBINE ENGINES  
. JET ENGINES  
. RAMJET ENGINES  
. LOW VOLUME RAMJET ENGINES  
TURBINE ENGINES  
. GAS TURBINE ENGINES  
. JET ENGINES  
. RAMJET ENGINES  
. LOW VOLUME RAMJET ENGINES

### $\infty$ LOW WING AIRCRAFT

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*  
RT  $\infty$  AIRCRAFT  
AIRCRAFT CONFIGURATIONS  
BEECH 99 AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
HYPERSONIC AIRCRAFT  
JET AIRCRAFT  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
TAILLESS AIRCRAFT  
TRANSPORT AIRCRAFT  
TURBOFAN AIRCRAFT  
TURBOPROP AIRCRAFT

### LQG CONTROL

USE LINEAR QUADRATIC GAUSSIAN CONTROL

### LQR

USE LINEAR QUADRATIC REGULATOR

### LTV AIRCRAFT

USE LING-TEMCO-VOUGHT AIRCRAFT

### LUBRICANT TESTS

RT ENGINE TESTS  
HIGH TEMPERATURE TESTS  
LOW TEMPERATURE TESTS  
 $\infty$  MATERIALS TESTS  
 $\infty$  TESTS  
WEAR RESISTANCE

### LUCITE (TRADEMARK)

USE POLYMETHYL METHACRYLATE

### LUDER BANDS

USE PLASTIC DEFORMATION  
YIELD POINT



**M**

**M WINGS**

USE VARIABLE SWEEP WINGS

**M-2 LIFTING BODY**

GS LIFTING BODIES  
 . LIFTING REENTRY VEHICLES  
 . . . **M-2 LIFTING BODY**  
 . . . M-2F2 LIFTING BODY  
 REENTRY VEHICLES  
 . MANEUVERABLE REENTRY BODIES  
 . . LIFTING REENTRY VEHICLES  
 . . . **M-2 LIFTING BODY**  
 . . . . M-2F2 LIFTING BODY

**M-2F2 LIFTING BODY**

GS LIFTING BODIES  
 . LIFTING REENTRY VEHICLES  
 . . M-2 LIFTING BODY  
 . . . **M-2F2 LIFTING BODY**  
 REENTRY VEHICLES  
 . MANEUVERABLE REENTRY BODIES  
 . . LIFTING REENTRY VEHICLES  
 . . . M-2 LIFTING BODY  
 . . . . **M-2F2 LIFTING BODY**

**M-2F3 LIFTING BODY**

GS LIFTING BODIES  
 . **M-2F3 LIFTING BODY**

**MACE MISSILES**

GS MISSILES  
 . SURFACE TO SURFACE MISSILES  
 . . **MACE MISSILES**  
 RT BOOSTER ROCKET ENGINES  
 J-33 ENGINE  
 SOLID PROPELLANT ROCKET ENGINES  
 TURBOJET ENGINES

**MACH CONES**

GS ELASTIC WAVES  
 . SHOCK WAVES  
 . . **MACH CONES**  
 RT ACOUSTIC VELOCITY  
 BOW WAVES  
 CONES  
 HYPERSONIC SHOCK  
 SOUND WAVES  
 SUPERSONIC FLIGHT  
 SUPERSONIC FLOW  
 SUPERSONICS

**MACH NUMBER**

UF CRITICAL MACH NUMBER  
 GLAUERT COEFFICIENT  
 RATIOS  
 . DIMENSIONLESS NUMBERS  
 . . **MACH NUMBER**  
 RT ACOUSTIC VELOCITY  
 AERODYNAMICS  
 AIRSPEED  
 SHOCK WAVES  
 SUPERHARMONICS  
 SWEEP ANGLE

**MACH-ZEHNDER INTERFEROMETERS**

GS MEASURING INSTRUMENTS  
 . INTERFEROMETERS  
 . . **MACH-ZEHNDER INTERFEROMETERS**  
 RT AERODYNAMICS  
 ARGON LASERS  
 CARBON DIOXIDE LASERS  
 DIFFRACTOMETERS  
 GAS LASERS  
 GONIOMETERS  
 OPTICAL EQUIPMENT  
 OPTICAL MEASURING INSTRUMENTS  
 SCHLIEREN PHOTOGRAPHY

**MAGNETIC COMPASSES**

GS MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . COMPASSES  
 . . . **MAGNETIC COMPASSES**  
 NAVIGATION AIDS  
 . NAVIGATION INSTRUMENTS  
 . . COMPASSES  
 . . . **MAGNETIC COMPASSES**  
 RT GYROCOMPASSES  
 SOLAR COMPASSES

**MAGNETIC COOLING**

GS COOLING

**MAGNETIC COOLING-(CONT.)**

RT . **MAGNETIC COOLING**  
 ABSORPTION COOLING  
 ADIABATIC DEMAGNETIZATION COOLING  
 LOW TEMPERATURE  
 LOW TEMPERATURE ENVIRONMENTS  
 REFRIGERATING

**MAGNETIC EQUATOR**

UF GEOMAGNETIC EQUATOR  
 GS EQUATORS  
 . **MAGNETIC EQUATOR**  
 RT GEOMAGNETISM  
 ∞ INCLINATION

**MAGNETIC MEASUREMENT**

SN (MEASUREMENT OF MAGNETIC  
 PROPERTIES, QUANTITIES OR  
 CONDITIONS)  
 UF FLUXMETERS  
 MAGNETOMETRY  
 RT ELECTROMAGNETIC MEASUREMENT  
 MAGNETOMETERS  
 ∞ MATERIALS TESTS  
 ∞ MEASUREMENT  
 SQUID (DETECTORS)

**MAGNETIC TRANSDUCERS**

GS TRANSDUCERS  
 . **MAGNETIC TRANSDUCERS**  
 RT ELECTROMAGNETIC MEASUREMENT  
 ELECTRONIC TRANSDUCERS  
 MICROPHONES

**MAGNETOGASDYNAMICS**

USE MAGNETOHYDRODYNAMICS

**MAGNETOHYDRODYNAMIC FLOW**

UF HYDROMAGNETIC FLOW  
 PLASMA FLOW  
 GS FLUID FLOW  
 . **MAGNETOHYDRODYNAMIC FLOW**  
 RT COMPRESSIBLE FLOW  
 CORE FLOW  
 GAS FLOW  
 GEOMAGNETIC HOLLOW  
 HARTMANN FLOW  
 KELVIN-HELMHOLTZ INSTABILITY  
 LINE CURRENT  
 MAGNETOHYDRODYNAMICS  
 PLASMA FLUX MEASUREMENT  
 PLASMA TURBULENCE  
 PLASMAS (PHYSICS)  
 REVERSE FIELD PINCH  
 SCREW PINCH  
 SOLAR WIND VELOCITY  
 TRANSVERSE WAVES  
 TWO FLUID MODELS

**MAGNETOHYDRODYNAMIC SHEAR HEATING**

GS HEATING  
 . **MAGNETOHYDRODYNAMIC SHEAR**  
 HEATING  
 RT PLASMA HEATING  
 PLASMA SHEATHS  
 SHOCK HEATING  
 VISCOUS FLOW

**MAGNETOHYDRODYNAMIC STABILITY**

UF HYDROMAGNETIC STABILITY  
 PLASMA INSTABILITY  
 PLASMA STABILITY  
 GS DYNAMIC CHARACTERISTICS  
 . DYNAMIC STABILITY  
 . . MOTION STABILITY  
 . . . FLOW STABILITY  
 . . . . **MAGNETOHYDRODYNAMIC**  
**STABILITY**  
 . . . . WEIBEL INSTABILITY  
 . . . FLOW CHARACTERISTICS  
 . . FLOW STABILITY  
 . . . **MAGNETOHYDRODYNAMIC**  
**STABILITY**  
 . . . . WEIBEL INSTABILITY  
 STABILITY  
 . DYNAMIC STABILITY  
 . . MOTION STABILITY  
 . . . FLOW STABILITY  
 . . . . **MAGNETOHYDRODYNAMIC**  
**STABILITY**  
 . . . . WEIBEL INSTABILITY  
 RT BALLOONING MODES  
 BETA FACTOR  
 ELASTIC WAVES  
 ELLIPTICAL PLASMAS

**MAGNETOHYDRODYNAMIC STABILITY-(CONT.)**

FORCE-FREE MAGNETIC FIELDS  
 HELICAL FLOW  
 KELVIN-HELMHOLTZ INSTABILITY  
 MAGNETOHYDRODYNAMICS  
 MAGNETOHYDROSTATICS  
 NONEQUILIBRIUM PLASMAS  
 NONUNIFORM PLASMAS  
 PLASMA CONDUCTIVITY  
 PLASMA COOLING  
 PLASMA DECAY  
 PLASMA DRIFT  
 PLASMA EQUILIBRIUM  
 PLASMA LIFETIME  
 PLASMA LOSS  
 PLASMA PINCH  
 PLASMA POTENTIALS  
 PLASMA SLABS  
 PLASMA TEMPERATURE  
 PLASMA TURBULENCE  
 PLASMAS (PHYSICS)  
 PLASMONS  
 SPACE PLASMAS  
 STRONGLY COUPLED PLASMAS  
 THERMAL INSTABILITY  
 ZETA PINCH

**MAGNETOHYDRODYNAMIC TURBULENCE**

GS TURBULENCE  
 . **MAGNETOHYDRODYNAMIC**  
**TURBULENCE**  
 . . PLASMA TURBULENCE  
 RT HOMOGENEOUS TURBULENCE  
 ISOTROPIC TURBULENCE

**MAGNETOHYDRODYNAMIC WAVES**

UF ALFVEN WAVES  
 HYDROMAGNETIC WAVES  
 PLASMA SOUND WAVES  
 GS ELASTIC WAVES  
 . **MAGNETOHYDRODYNAMIC WAVES**  
 . . PLASMA WAVES  
 . . . ELECTROSTATIC WAVES  
 RT MAGNETOACOUSTIC WAVES  
 MAGNETOHYDRODYNAMICS  
 NORMAL SHOCK WAVES  
 OBLIQUE SHOCK WAVES  
 SHOCK WAVES

**MAGNETOHYDRODYNAMICS**

UF GEOMETRICAL HYDROMAGNETICS  
 HYDROMAGNETICS  
 HYDROMAGNETISM  
 MAGNETOGASDYNAMICS  
 GS FLUID MECHANICS  
 . FLUID DYNAMICS  
 . . HYDRODYNAMICS  
 . . . **MAGNETOHYDRODYNAMICS**  
 . . . HYDROMECHANICS  
 . . . HYDRODYNAMICS  
 . . . **MAGNETOHYDRODYNAMICS**  
 RT ALPHA PLASMA DEVICES  
 CONDUCTING FLUIDS  
 ∞ DYNAMICS  
 ELECTRIC ARCS  
 ELECTROHYDRODYNAMICS  
 GAS DYNAMICS  
 GAS TRANSPORT  
 HALL ACCELERATORS  
 HALL EFFECT  
 HARTMANN FLOW  
 HARTMANN NUMBER  
 IONIZATION  
 MAGNETOHYDRODYNAMIC FLOW  
 MAGNETOHYDRODYNAMIC GENERATORS  
 MAGNETOHYDRODYNAMIC STABILITY  
 MAGNETOHYDRODYNAMIC WAVES  
 MAGNETOHYDROSTATICS  
 MAGNETOIONICS  
 MAGNETOSONIC RESONANCE  
 PINCH EFFECT  
 PLASMA CURRENTS  
 PLASMA DYNAMICS  
 PLASMA PHYSICS  
 PLASMA PROPULSION  
 PLASMAS (PHYSICS)  
 SPACE CHARGE  
 SPACE MECHANICS  
 SPACE PLASMAS  
 STELLAR ACTIVITY  
 STELLARATORS  
 THERMONUCLEAR REACTIONS  
 URANIUM PLASMAS

## MAGNETOHYDROSTATICS

### MAGNETOHYDROSTATICS

GS FLUID MECHANICS  
 . HYDROMECHANICS  
 . HYDROSTATICS  
 . . . **MAGNETOHYDROSTATICS**  
 STATICS  
 . HYDROSTATICS  
 . . **MAGNETOHYDROSTATICS**  
 RT MAGNETOHYDRODYNAMIC STABILITY  
 MAGNETOHYDRODYNAMICS  
 MAGNETOIONICS  
 PLASMA PHYSICS  
 STATIC STABILITY

### MAGNETOMETERS

UF GAUSSMETERS  
 GS MEASURING INSTRUMENTS  
 . **MAGNETOMETERS**  
 . . VARIOMETERS  
 RT ELECTRICAL MEASUREMENT  
 FIELD INTENSITY METERS  
 GEOMAGNETISM  
 ∞ GRADIOMETERS  
 MAGNETIC MEASUREMENT  
 MAGNETIC PROBES  
 MAGNETIC SHIELDING  
 MAGSAT A SATELLITE  
 MAGSAT B SATELLITE  
 MAGSAT SATELLITES  
 MAGSAT 1 SATELLITE  
 NUCLEAR MAGNETIC RESONANCE  
 PROTON MASERS

### MAGNETOMETRY

USE MAGNETIC MEASUREMENT

### MAGNUS EFFECT

RT BERNOULLI THEOREM  
 BOUNDARY LAYER FLOW  
 ∞ EFFECTS  
 FLUID DYNAMICS  
 FLUID FLOW  
 MISSILE DESIGN  
 ROTATING CYLINDERS

### MAN OPERATED PROPULSION SYSTEMS

UF MOPS (PROPULSION SYSTEMS)  
 GS PROPULSION  
 . LOW THRUST PROPULSION  
 . . **MAN OPERATED PROPULSION**  
 . . . **SYSTEMS**  
 RT ASTRONAUT LOCOMOTION  
 COMPRESSED AIR  
 EXTRAVEHICULAR ACTIVITY  
 GASEOUS ROCKET PROPELLANTS  
 MANNED SPACE FLIGHT  
 PILOT PERFORMANCE  
 RETHOROCKET ENGINES  
 ∞ SYSTEMS

### MAN POWERED AIRCRAFT

RT ∞ AIRCRAFT  
 HANG GLIDERS  
 SOARING  
 ULTRALIGHT AIRCRAFT  
 ∞ WINGED VEHICLES

### MANEUVERABILITY

RT AIR SLEW MISSILES  
 AIRCRAFT CONTROL  
 AIRCRAFT MANEUVERS  
 AIRCRAFT PERFORMANCE  
 CONTROLLABILITY  
 FLIGHT CHARACTERISTICS  
 FLIGHT CONTROL  
 FLIGHT ENVELOPES  
 HELICOPTER PERFORMANCE  
 MANEUVERS  
 SPACECRAFT MANEUVERS

### MANEUVERABLE REENTRY BODIES

GS REENTRY VEHICLES  
 . **MANEUVERABLE REENTRY BODIES**  
 . . LIFTING REENTRY VEHICLES  
 . . . FDL-5 REENTRY VEHICLE  
 . . . HL-10 REENTRY VEHICLE  
 . . . HLD-35 REENTRY VEHICLE  
 . . . JANUS SPACECRAFT  
 . . . M-2 LIFTING BODY  
 . . . . M-2F2 LIFTING BODY  
 . . . X-20 AIRCRAFT  
 . . . X-24 AIRCRAFT  
 RT ∞ BODIES

### MANEUVERS

GS **MANEUVERS**  
 . AIRCRAFT MANEUVERS  
 . EVASIVE ACTIONS  
 . HOVERING  
 . ORBITAL RENDEZVOUS  
 . . EARTH ORBITAL RENDEZVOUS  
 . . LUNAR ORBITAL RENDEZVOUS  
 . SIDESLIP  
 . SPACECRAFT DOCKING  
 . SPACECRAFT MANEUVERS  
 . . ORBITAL MANEUVERS  
 RT AEROBATICS  
 AIRCRAFT SPIN  
 FLIGHT CONTROL  
 LANDING  
 MANEUVERABILITY  
 MINOR CIRCLE TURNING FLIGHT  
 SELF MANEUVERING UNITS  
 TAKEOFF  
 TURNING FLIGHT

### MANIFOLDS

RT AIR INTAKES  
 EXHAUST SYSTEMS  
 FUEL SYSTEMS  
 INTAKE SYSTEMS  
 PIPES (TUBES)  
 PLENUM CHAMBERS  
 ∞ TUBES  
 ∞ WATER INTAKES

### MANIPULATION

USE MANIPULATORS

### MANIPULATORS

SN (LIMITED TO MECHANICAL DEVICES FOR  
 REMOTE HANDLING)  
 UF MANIPULATION  
 GS **MANIPULATORS**  
 . REMOTE MANIPULATOR SYSTEM  
 RT CONTROL EQUIPMENT  
 ∞ EFFECTORS  
 END EFFECTORS  
 PAYLOAD DEPLOYMENT & RETRIEVAL  
 SYSTEM  
 REMOTE CONTROL  
 REMOTE HANDLING  
 ROBOT ARMS  
 ROBOT DYNAMICS  
 ROBOTICS  
 SERVOCONTROL  
 SHIELDING  
 TELEOPERATORS

### MANNED REENTRY

GS ATMOSPHERIC ENTRY  
 . REENTRY  
 . . **MANNED REENTRY**  
 . . . SPACE FLIGHT  
 . . . MANNED SPACE FLIGHT  
 . . . **MANNED REENTRY**  
 RT DESCENT TRAJECTORIES  
 ENVIRONMENTAL CONTROL  
 LIFTING REENTRY VEHICLES  
 REENTRY COMMUNICATION  
 SPACECRAFT REENTRY

### MANNED SPACE FLIGHT

GS SPACE FLIGHT  
 . **MANNED SPACE FLIGHT**  
 . . APOLLO FLIGHTS  
 . . . APOLLO 5 FLIGHT  
 . . . APOLLO 6 FLIGHT  
 . . . APOLLO 7 FLIGHT  
 . . . APOLLO 8 FLIGHT  
 . . . APOLLO 9 FLIGHT  
 . . . APOLLO 10 FLIGHT  
 . . . APOLLO 11 FLIGHT  
 . . . APOLLO 12 FLIGHT  
 . . . APOLLO 13 FLIGHT  
 . . . APOLLO 14 FLIGHT  
 . . . APOLLO 15 FLIGHT  
 . . . APOLLO 16 FLIGHT  
 . . . APOLLO 17 FLIGHT  
 . . GEMINI FLIGHTS  
 . . . GEMINI 3 FLIGHT  
 . . . GEMINI 4 FLIGHT  
 . . . GEMINI 5 FLIGHT  
 . . . GEMINI 6 FLIGHT  
 . . . GEMINI 7 FLIGHT  
 . . . GEMINI 8 FLIGHT  
 . . . GEMINI 9 FLIGHT  
 . . . GEMINI 10 FLIGHT  
 . . . GEMINI 11 FLIGHT

### MANNED SPACE FLIGHT-(CONT.)

. . . GEMINI 12 FLIGHT  
 . . MANNED REENTRY  
 . . MERCURY FLIGHTS  
 . . . MERCURY MA-1 FLIGHT  
 . . . MERCURY MA-2 FLIGHT  
 . . . MERCURY MA-3 FLIGHT  
 . . . MERCURY MA-4 FLIGHT  
 . . . MERCURY MA-5 FLIGHT  
 . . . MERCURY MA-6 FLIGHT  
 . . . MERCURY MA-7 FLIGHT  
 . . . MERCURY MA-8 FLIGHT  
 . . . MERCURY MA-9 FLIGHT  
 . . . MERCURY MR-1 FLIGHT  
 . . . MERCURY MR-2 FLIGHT  
 . . . MERCURY MR-3 FLIGHT  
 . . . MERCURY MR-4 FLIGHT  
 . . SPACE SHUTTLE MISSIONS  
 . . . SPACE SHUTTLE MISSION 31-A  
 . . . SPACE SHUTTLE MISSION 31-B  
 . . . SPACE SHUTTLE MISSION 31-C  
 . . . SPACE SHUTTLE MISSION 31-D  
 . . . SPACE SHUTTLE MISSION 41-A  
 . . . SPACE SHUTTLE MISSION 41-B  
 . . . SPACE SHUTTLE MISSION 41-C  
 . . . SPACE SHUTTLE MISSION 41-D  
 . . . SPACE SHUTTLE MISSION 41-G  
 . . . SPACE SHUTTLE MISSION 51-A  
 . . . SPACE SHUTTLE MISSION 51-B  
 . . . SPACE SHUTTLE MISSION 51-C  
 . . . SPACE SHUTTLE MISSION 51-D  
 . . . SPACE SHUTTLE MISSION 51-E  
 . . . SPACE SHUTTLE MISSION 51-F  
 . . . SPACE SHUTTLE MISSION 51-G  
 . . . SPACE SHUTTLE MISSION 51-H  
 . . . SPACE SHUTTLE MISSION 51-I  
 . . . SPACE SHUTTLE MISSION 51-J  
 . . . SPACE SHUTTLE MISSION 51-L  
 . . . SPACE SHUTTLE MISSION 61-A  
 . . . SPACE SHUTTLE MISSION 61-B  
 . . . SPACE SHUTTLE MISSION 61-C  
 . . . SPACE SHUTTLE MISSION 61-E  
 RT AEROSPACE ENVIRONMENTS  
 APOLLO EXTENSION SYSTEM  
 ATLANTIS (ORBITER)  
 COLUMBIA (ORBITER)  
 DISCOVERY (ORBITER)  
 ENTERPRISE (ORBITER)  
 EXTRAVEHICULAR ACTIVITY  
 GEMINI (GT-1) SPACECRAFT  
 GEMINI B SPACECRAFT  
 GEMINI SPACECRAFT  
 GEMINI 2 SPACECRAFT  
 HUMAN FACTORS ENGINEERING  
 INDIAN SPACE PROGRAM  
 INTERPLANETARY FLIGHT  
 INTERSTELLAR TRAVEL  
 INTRAVEHICULAR ACTIVITY  
 LONG DURATION SPACE FLIGHT  
 MAN OPERATED PROPULSION SYSTEMS  
 MERCURY PROJECT  
 SPACE ADAPTATION SYNDROME  
 SPACE COMMUNICATION  
 SPACE EXPLORATION  
 SPACE FLIGHT STRESS  
 SPACE LOGISTICS  
 SPACE PROGRAMS  
 SPACE PSYCHOLOGY  
 SPACE SHUTTLE ORBITERS  
 SPACE SHUTTLES  
 SPACECREW TRANSFER  
 SUBORBITAL FLIGHT

### MANNING THEORY

RT FLUID FLOW  
 ∞ THEORIES  
 WALL FLOW

### MANOMETERS

UF MICROMANOMETERS  
 U TUBES  
 GS MEASURING INSTRUMENTS  
 . PRESSURE GAGES  
 . . **MANOMETERS**  
 RT BAROMETERS  
 BLOOD PRESSURE  
 FLAME PROBES  
 PRESSURE DISTRIBUTION  
 PRESSURE MEASUREMENT  
 VACUUM GAGES

### MANUAL CONTROL

GS **MANUAL CONTROL**  
 . VISUAL CONTROL  
 RT AIRCRAFT CONTROL

**MANUAL CONTROL-(CONT.)**

ATTITUDE CONTROL  
AUTOMATIC CONTROL  
∞ BUTTONS  
CONSOLES  
∞ CONTROL  
CONTROL BOARDS  
CONTROL EQUIPMENT  
DIRECTIONAL CONTROL  
ENGINE CONTROL  
GUIDANCE (MOTION)  
HANDLES  
HELICOPTER CONTROL  
HUMAN FACTORS ENGINEERING  
KNOBS  
LANDING INSTRUMENTS  
LATERAL CONTROL  
LEVERS  
LONGITUDINAL CONTROL  
∞ MANUAL  
PEDALS  
REENTRY GUIDANCE  
REMOTE CONTROL  
SATELLITE CONTROL  
SATELLITE GUIDANCE  
SERVOCONTROL  
SPACECRAFT CONTROL  
SPACECRAFT GUIDANCE  
SPEED CONTROL  
TEMPERATURE CONTROL

**MAP MATCHING GUIDANCE**

GS GUIDANCE (MOTION)  
MAP MATCHING GUIDANCE  
RT AIRBORNE EQUIPMENT  
DISPLAY DEVICES  
IMAGE CORRELATORS  
RADAR MAPS  
RADAR NAVIGATION  
TERCOM  
VIDEO LANDMARK ACQUISITION AND TRACKING

**MAPS**

GS MAPS  
ASTRONOMICAL MAPS  
PLANISPHERES  
LUNAR MAPS  
METEOROLOGICAL CHARTS  
PHOTOMAPS  
RADAR CLUTTER MAPS  
RADAR MAPS  
RELIEF MAPS  
RT BONNE PROJECTION  
CADASTRAL MAPPING  
CHARTS  
COMPUTER AIDED MAPPING  
COORDINATES  
DATUM (ELEVATION)  
GEOGRAPHY  
∞ GLOBES  
HYPSOGRAPHY  
MAPPING  
MERCATOR PROJECTION  
NAVIGATION AIDS  
PHOTOMAPPING  
SOIL MAPPING  
SURVEYS  
THEMATIC MAPPING

**MARBORE 2 ENGINE**

USE J-69-T-25 ENGINE

**MARINE NAVIGATION**

USE SURFACE NAVIGATION

**MARINE RUDDERS**

GS CONTROL SURFACES  
RUDDERS  
MARINE RUDDERS  
RT AERIAL RUDDERS  
HYDROFOILS  
TAIL ASSEMBLIES

**MARITIME SATELLITES**

GS ARTIFICIAL SATELLITES  
MARITIME SATELLITES  
ERS-1 (ESA SATELLITE)  
MARECS MARITIME SATELLITES  
MAROTS (ESA)  
RT MSAT  
NATIONAL OCEANIC SATELLITE SYSTEM  
TOPEX

**MARK 1 REENTRY BODY**

GS REENTRY VEHICLES  
RT MARK 1 REENTRY BODY  
INTERCONTINENTAL BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC MISSILES

**MARK 2 REENTRY BODY**

GS REENTRY VEHICLES  
RT MARK 2 REENTRY BODY  
INTERCONTINENTAL BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC MISSILES

**MARK 3 REENTRY BODY**

GS REENTRY VEHICLES  
RT MARK 3 REENTRY BODY  
INTERCONTINENTAL BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC MISSILES

**MARK 4 REENTRY BODY**

GS REENTRY VEHICLES  
RT MARK 4 REENTRY BODY  
INTERCONTINENTAL BALLISTIC MISSILES

**MARK 5 REENTRY BODY**

GS REENTRY VEHICLES  
RT MARK 5 REENTRY BODY  
INTERCONTINENTAL BALLISTIC MISSILES

**MARK 6 REENTRY BODY**

GS REENTRY VEHICLES  
RT MARK 6 REENTRY BODY  
INTERCONTINENTAL BALLISTIC MISSILES

**∞ MARKERS**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT BEACONS  
BUOYS  
CRAYONS  
DYES  
RADIO BEACONS  
RUNWAY LIGHTS  
SMOKE

**MARQUARDT R4D ENGINE**

GS ENGINES  
RT MARQUARDT R4D ENGINE  
APOLLO PROJECT  
AUXILIARY PROPULSION  
COMMAND MODULES  
∞ REACTION CONTROL  
SATELLITE ATTITUDE CONTROL  
SPACECRAFT CONTROL

**MARTIN AIRCRAFT**

GS MARTIN AIRCRAFT  
B-26 AIRCRAFT  
B-57 AIRCRAFT  
RT ∞ AIRCRAFT

**∞ MASS BALANCE**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT BALANCE  
MASS DISTRIBUTION  
MATERIAL BALANCE  
VARIABLE MASS SYSTEMS

**MASS FLOW**

GS FLUID FLOW  
MASS FLOW  
RT CROCCO-LEE THEORY  
∞ FLOW  
FLOW THEORY  
GAS FLOW  
KELVIN-HELMHOLTZ INSTABILITY  
KINETIC THEORY  
LAMINAR FLOW  
LEWIS NUMBERS  
LIQUID FLOW  
MOLECULAR INTERACTIONS  
MULTIPHASE FLOW  
PIPE FLOW  
SEDIMENT TRANSPORT  
SINGLE-PHASE FLOW  
SLIDING  
SLUMPING  
SOLIDS FLOW  
STEADY FLOW

**MASS FLOW-(CONT.)**

STEAM FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW

**MASS FLOW FACTORS**

RT DISCHARGE COEFFICIENT  
FLOW COEFFICIENTS  
HEAT TRANSFER COEFFICIENTS  
HEAT TRANSMISSION  
NOZZLE GEOMETRY

**MASS FLOW RATE**

GS RATES (PER TIME)  
MASS FLOW RATE  
RT CONVECTIVE FLOW  
DIFFUSION COEFFICIENT  
FLOW VELOCITY  
PNEUMATIC PROBES  
SPECIFIC IMPULSE  
TRANSIENT PRESSURES

**MASS SPECTRA**

GS SPECTRA  
MASS SPECTRA  
RT ENERGY SPECTRA  
MOLECULAR SPECTRA  
RADIATION SPECTRA

**MASS SPECTROMETERS**

UF ION SPECTROMETERS  
RETARDING ION MASS  
SPECTROMETERS  
GS MEASURING INSTRUMENTS  
SPECTROMETERS  
RT MASS SPECTROMETERS  
CHEMICAL ANALYSIS  
GAS ANALYSIS  
MICROANALYSIS  
NEUTRON ACTIVATION ANALYSIS  
QUALITATIVE ANALYSIS

**MASS TRANSFER**

RT ABLATION  
CHARGE TRANSFER  
CONVECTIVE FLOW  
CONVECTIVE HEAT TRANSFER  
ENERGY TRANSFER  
GAS TRANSPORT  
GAS-LIQUID INTERACTIONS  
HEAT TRANSFER  
LEWIS NUMBERS  
POROUS BOUNDARY LAYER CONTROL  
SEDIMENT TRANSPORT  
TRANSFERRING  
TRANSPIRATION

**MATRA MISSILE**

GS MISSILES  
AIR TO AIR MISSILES  
MATRA MISSILE  
RT SOLID PROPELLANT ROCKET ENGINES

**MAULER MISSILE**

GS MISSILES  
ANTI-AIRCRAFT MISSILES  
MAULER MISSILE  
ANTIMISSILE MISSILES  
MAULER MISSILE  
SURFACE TO AIR MISSILES  
MAULER MISSILE  
RT SINGLE STAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES

**MAVERICK MISSILES**

GS MISSILES  
AIR TO SURFACE MISSILES  
MAVERICK MISSILES

**MAX HOLSTE MH-262 AIRCRAFT**

USE MH-262 AIRCRAFT

**MAXWELL BODIES**

RT CLASSICAL MECHANICS  
CONTINUUM MECHANICS  
HOOKES LAW  
OSCILLATION DAMPERS  
RELAXATION TIME

**MAXWELL FLUIDS**

RT COMPRESSIBLE FLUIDS  
FLUID MECHANICS  
∞ FLUIDS

## MAXWELL-BOLTZMANN DENSITY FUNCTION

### MAXWELL FLUIDS-(CONT.)

RHEOLOGY  
VISCOELASTICITY  
VISCOUS FLOW  
VISCOUS FLUIDS

### MAXWELL-BOLTZMANN DENSITY FUNCTION

UF MAXWELLIAN DISTRIBUTION (DENSITY)  
GS FUNCTIONS (MATHEMATICS)  
MAXWELL-BOLTZMANN DENSITY  
FUNCTION  
STATISTICAL ANALYSIS  
MAXWELL-BOLTZMANN DENSITY  
FUNCTION  
RT DENSITY DISTRIBUTION  
KINETIC THEORY  
PROBABILITY THEORY  
STATISTICAL MECHANICS

### MAXWELLIAN DISTRIBUTION (DENSITY)

USE MAXWELL-BOLTZMANN DENSITY  
FUNCTION

### MB-1 ROCKET VEHICLE

USE GENIE ROCKET VEHICLE

### MCDONNELL AIRCRAFT

GS MCDONNELL DOUGLAS AIRCRAFT  
MCDONNELL AIRCRAFT  
C-9 AIRCRAFT  
DC 10 AIRCRAFT  
F-101 AIRCRAFT  
PHANTOM AIRCRAFT  
F-4 AIRCRAFT  
RF-4 AIRCRAFT  
RT AIRCRAFT

### MCDONNELL DOUGLAS AIRCRAFT

GS MCDONNELL DOUGLAS AIRCRAFT  
DOUGLAS AIRCRAFT  
A-1 AIRCRAFT  
A-3 AIRCRAFT  
A-4 AIRCRAFT  
B-66 AIRCRAFT  
C-9 AIRCRAFT  
C-47 AIRCRAFT  
C-54 AIRCRAFT  
C-118 AIRCRAFT  
C-124 AIRCRAFT  
C-133 AIRCRAFT  
D-558 AIRCRAFT  
DC 3 AIRCRAFT  
DC 7 AIRCRAFT  
DC 8 AIRCRAFT  
DC 9 AIRCRAFT  
DC 10 AIRCRAFT  
PD-808 AIRCRAFT  
X-3 AIRCRAFT  
F-18 AIRCRAFT  
MCDONNELL AIRCRAFT  
C-9 AIRCRAFT  
DC 10 AIRCRAFT  
F-101 AIRCRAFT  
PHANTOM AIRCRAFT  
F-4 AIRCRAFT  
RF-4 AIRCRAFT  
RT AIRCRAFT

### MCLEOD GAGES

GS MEASURING INSTRUMENTS  
PRESSURE GAGES  
VACUUM GAGES  
MCLEOD GAGES  
VACUUM APPARATUS  
VACUUM GAGES  
MCLEOD GAGES  
RT IONIZATION GAGES  
KNUDSEN GAGES  
PIRANI GAGES  
PRESSURE MEASUREMENT

### ME P-160 AIRCRAFT

USE P-160 AIRCRAFT

### ME P-308 AIRCRAFT

USE P-308 AIRCRAFT

### MEAN SQUARE VALUES

GS ANALYSIS (MATHEMATICS)  
NUMERICAL ANALYSIS  
APPROXIMATION  
MEAN SQUARE VALUES  
RT ALGORITHMS  
ERROR ANALYSIS

### MEAN SQUARE VALUES-(CONT.)

LEAST SQUARES METHOD

### MEASUREMENT

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
UF DETERMINATION  
MEASURING  
QUANTIZATION  
RT ACCURACY  
ACOUSTIC MEASUREMENT  
AIRBORNE RANGE AND ORBIT  
DETERMINATION  
AIRCRAFT INSTRUMENTS  
ANALOG DATA  
ASTROMETRY  
AUDIOMETRY  
CHEMICAL ANALYSIS  
CONFIDENCE LIMITS  
CONSISTENCY  
COUNTING  
DATA  
DEFINITION  
DENSIMETERS  
DENSITY MEASUREMENT  
DEPTH MEASUREMENT  
DETECTION  
DILATOMETRY  
DIMENSIONAL MEASUREMENT  
DOWNRANGE ANTIMISSILE  
MEASUREMENT PROGRAM  
DOWNRANGE MEASUREMENT  
DRAG MEASUREMENT  
EARTH TERMINAL MEASUREMENT  
SYSTEM  
ELECTRICAL MEASUREMENT  
ELECTROMAGNETIC MEASUREMENT  
ELECTROMAGNETIC NOISE  
MEASUREMENT  
ELLIPSOMETRY  
ESTIMATING  
EVALUATION  
EXAMINATION  
FLOW MEASUREMENT  
FREQUENCY MEASUREMENT  
FRICTION MEASUREMENT  
GAMMA RAY ABSORPTIOMETRY  
GEOMETRY  
GRAVIMETRY  
HEAT MEASUREMENT  
HIGH ALT TARGET AND BACKGROUND  
MEASUREMENT  
HUMIDITY MEASUREMENT  
IDENTIFYING  
INTERNATIONAL SYSTEM OF UNITS  
LATITUDE MEASUREMENT  
LONGITUDE MEASUREMENT  
MACROSCOPIC EQUATIONS  
MAGNETIC MEASUREMENT  
MEASURES  
MEASURING INSTRUMENTS  
MECHANICAL MEASUREMENT  
METROLOGY  
MONITORS  
NOISE MEASUREMENT  
OPTICAL MEASUREMENT  
OPTOMETRY  
PHOTOGRAPHIC MEASUREMENT  
PNEUMOGRAPHY  
PRESSURE MEASUREMENT  
PROVING  
PUPILLOMETRY  
RADAR MEASUREMENT  
RADIATION MEASUREMENT  
RADIOACTIVE AGE DETERMINATION  
RANGEFINDING  
SIGNAL MEASUREMENT  
SIZE DETERMINATION  
SOUNDING  
SPHYGMOGRAPHY  
STANDARDS  
STRAIN MEASUREMENT  
SYNOPTIC MEASUREMENT  
TEMPERATURE MEASUREMENT  
THRUST MEASUREMENT  
TIME MEASUREMENT  
TRAJECTORY MEASUREMENT  
ULTRASONIC DENSIMETERS  
UNITS OF MEASUREMENT  
VELOCITY MEASUREMENT  
VIBRATION MEASUREMENT  
WEIGHT MEASUREMENT  
WIND MEASUREMENT

### MEASURING

USE MEASUREMENT

### MEASURING INSTRUMENTS

UF FLUXMETERS  
GAGES  
METERS  
RATE METERS  
GS MEASURING INSTRUMENTS  
ACCELEROMETERS  
STRAIN GAGE ACCELEROMETERS  
AMMETERS  
MICROMILLIAMMETERS  
THERMOELEMENT AMMETERS  
ANALYZERS  
ENGINE ANALYZERS  
SIGNAL ANALYZERS  
ANEMOMETERS  
DRAG FORCE ANEMOMETERS  
HOT-FILM ANEMOMETERS  
HOT-WIRE ANEMOMETERS  
LASER ANEMOMETERS  
SONIC ANEMOMETERS  
BALLOON-BORNE INSTRUMENTS  
BATHYMETERS  
BURETTES  
CALORIMETERS  
BOMB CALORIMETERS  
DROP CALORIMETERS  
FLAME CALORIMETERS  
COMPARATORS  
CONDUCTIVITY METERS  
ELECTRICAL CONDUCTIVITY METERS  
COULOMETERS  
COUNTERS  
RADIATION COUNTERS  
CERENKOV COUNTERS  
ELECTRON COUNTERS  
GEIGER COUNTERS  
NEUTRON COUNTERS  
NEUTRON SPECTROMETERS  
PARTICLE TELESCOPES  
PROPORTIONAL COUNTERS  
QUANTUM COUNTERS  
SCINTILLATION COUNTERS  
SPARK CHAMBERS  
DEFORMETERS  
DENSIMETERS  
ULTRASONIC DENSIMETERS  
DENSITOMETERS  
MICRODENSITOMETERS  
DISTANCE MEASURING EQUIPMENT  
ALTIMETERS  
LASER ALTIMETERS  
RADIO ALTIMETERS  
GEODIMETERS  
RANGE FINDERS  
OPTICAL RANGE FINDERS  
LASER RANGE FINDERS  
STADIMETERS  
TELLUROMETERS  
DYNAMOMETERS  
ELASTOMETERS  
ELECTROMETERS  
ELECTRON PROBES  
ENGINE MONITORING INSTRUMENTS  
ERGOMETERS  
EUDIOMETERS  
EXTENSOMETERS  
FIELD INTENSITY METERS  
FLAME PROBES  
FLIGHT LOAD RECORDERS  
FLIGHT RECORDERS  
FLOWMETERS  
GAS METERS  
HOT-WIRE FLOWMETERS  
RHEOMETERS  
FORCE VECTOR RECORDERS  
FUEL GAGES  
CAPACITIVE FUEL GAGES  
GALVANOMETERS  
GERDIEN CONDENSERS  
GONIOMETERS  
PHOTOgoniometers  
RADIOgoniometers  
GRAVIMETERS  
GRAVITY GRADIOMETERS  
HELIOMETERS  
PYROHELIOMETERS  
HYDROMETERS  
HYPSOMETERS  
IMPEDANCE PROBES  
RADIO FREQUENCY IMPEDANCE  
PROBES  
INDICATING INSTRUMENTS  
APPROACH INDICATORS

MEASURING INSTRUMENTS-(CONT.)

- . ASTROLABES
- . ATTITUDE INDICATORS
- . GYRO HORIZONS
- . CLOUD HEIGHT INDICATORS
- . COMPASSES
- . GYROCOMPASSES
- . MAGNETIC COMPASSES
- . SOLAR COMPASSES
- . FLOW DIRECTION INDICATORS
- . WIND VANES
- . POSITION INDICATORS
- . PLAN POSITION INDICATORS
- . RADIO DIRECTION FINDERS
- . SPACECRAFT POSITION INDICATORS
- . SMOKE DETECTORS
- . SPEED INDICATORS
- . TACHOMETERS
- . WEIGHT INDICATORS
- . MICROBALANCES
- . STRAIN GAGE BALANCES
- . THERMOBALANCES
- . INTERFEROMETERS
- . ETALONS
- . FABRY-PEROT INTERFEROMETERS
- . INFRARED INTERFEROMETERS
- . MACH-ZEHNDER INTERFEROMETERS
- . MICHELSON INTERFEROMETERS
- . MICROWAVE INTERFEROMETERS
- . PHASE SWITCHING INTERFEROMETERS
- . RADIO INTERFEROMETERS
- . ION PROBES
- . ION TRAPS (INSTRUMENTATION)
- . LASER DOPPLER VELOCIMETERS
- . MAGNETIC PROBES
- . MAGNETOMETERS
- . VARIOMETERS
- . MECHANOGGRAMS
- . METEOROLOGICAL INSTRUMENTS
- . BAROMETERS
- . CLOUD HEIGHT INDICATORS
- . DROPSONDES
- . RADIOMETEOROLOGRAPHS
- . RADIOSONDES
- . ENDORADIOSONDES
- . IONOSONDES
- . RAWINSONDES
- . RAIN GAGES
- . WEATHER DATA RECORDERS
- . WIND VANES
- . MICROMETERS
- . MICROWAVE PROBES
- . MICROWAVE PLASMA PROBES
- . MICROWAVE SENSORS
- . MOISTURE METERS
- . HYGROMETERS
- . PSYCHROMETERS
- . MONOCHROMATORS
- . NOISE METERS
- . OHMMETERS
- . OMEGA NAVIGATION SYSTEM
- . OPTICAL MEASURING INSTRUMENTS
- . CATHETOMETERS
- . DIFFRACTOMETERS
- . EBERT SPECTROMETERS
- . ELLIPSOMETERS
- . ETALONS
- . GEODIMETERS
- . HAPLOSOPES
- . INFRARED SPECTROMETERS
- . FILTER WHEEL INFRARED SPECTROMETERS
- . LIGHT SCATTERING METERS
- . MICRODENSITOMETERS
- . NEPHELOMETERS
- . OCULOMETERS
- . OPTICAL PYROMETERS
- . OPTICAL RANGE FINDERS
- . LASER RANGE FINDERS
- . PHOTOGONIOMETERS
- . PHOTOMETERS
- . ELECTROPHOTOMETERS
- . ULTRAVIOLET SPECTROMETERS
- . TOTAL OZONE MAPPING SPECTROMETER
- . ULTRAVIOLET SPECTROPHOTOMETERS
- . POLARIMETERS
- . REFLECTOMETERS
- . MICROWAVE REFLECTOMETERS
- . REFRACTOMETERS
- . SEXTANTS
- . SPECTROPHOTOMETERS
- . INFRARED SPECTROPHOTOMETERS

MEASURING INSTRUMENTS-(CONT.)

- . ULTRAVIOLET SPECTROPHOTOMETERS
- . TRANCITS
- . THEODOLITES
- . CINETHODOLITES
- . TRANSMISSOMETERS
- . OSCILLOGRAPH
- . OXYGEN ANALYZERS
- . PENETROMETERS
- . PLASMA PROBES
- . ELECTROSTATIC PROBES
- . POLARISCOPES
- . SENARMONT POLARISCOPES
- . POTENTIOMETERS (INSTRUMENTS)
- . PRESSURE GAGES
- . BAROMETERS
- . MANOMETERS
- . OSMOMETERS
- . PIEZOELECTRIC GAGES
- . PIEZOMETERS
- . VACUUM GAGES
- . IONIZATION GAGES
- . ALPHATRONS
- . BAYARD-ALPERT IONIZATION GAGES
- . PENNING GAGES
- . PHILIPS IONIZATION GAGES
- . KNUDSEN GAGES
- . MCLEOD GAGES
- . PIRANI GAGES
- . PROFILOMETERS
- . PROTRACTORS
- . RADIATION MEASURING INSTRUMENTS
- . ACTINOMETERS
- . INFRARED SPECTROMETERS
- . PYRANOMETERS
- . RADIOMETERS
- . DICKE RADIOMETERS
- . INFRARED DETECTORS
- . INFRARED RADIOMETERS
- . INFRARED SCANNERS
- . MICROWAVE RADIOMETERS
- . PASSIVE L-BAND RADIOMETERS
- . PRESSURE MODULATOR RADIOMETERS
- . SPECTRORADIOMETERS
- . SOLAR SPECTROMETERS
- . SPECTROHELIOGRAPHS
- . SPECTROPHOTOMETERS
- . INFRARED SPECTROPHOTOMETERS
- . ULTRAVIOLET SPECTROPHOTOMETERS
- . ULTRAVIOLET DETECTORS
- . ULTRAVIOLET SPECTROMETERS
- . TOTAL OZONE MAPPING SPECTROMETER
- . ULTRAVIOLET SPECTROPHOTOMETERS
- . BOLOMETERS
- . EBERT SPECTROMETERS
- . ELECTROSTATIC PROBES
- . FABRY-PEROT SPECTROMETERS
- . HODOSCOPES
- . INFRARED INSTRUMENTS
- . INFRARED DETECTORS
- . FLIR DETECTORS
- . INFRARED RADIOMETERS
- . INFRARED SCANNERS
- . INFRARED SPECTROMETERS
- . INFRARED SPECTROPHOTOMETERS
- . PHOTOMETERS
- . ELECTROPHOTOMETERS
- . ULTRAVIOLET SPECTROMETERS
- . TOTAL OZONE MAPPING SPECTROMETER
- . ULTRAVIOLET SPECTROPHOTOMETERS
- . RADIATION COUNTERS
- . CERENKOV COUNTERS
- . ELECTRON COUNTERS
- . GEIGER COUNTERS
- . NEUTRON COUNTERS
- . NEUTRON SPECTROMETERS
- . PARTICLE TELESCOPES
- . PROPORTIONAL COUNTERS
- . QUANTUM COUNTERS
- . SCINTILLATION COUNTERS
- . SPARK CHAMBERS
- . RADIATION DETECTORS
- . DOSIMETERS
- . THRESHOLD DETECTORS (DOSIMETERS)
- . GOLAY DETECTOR CELLS
- . SILICON RADIATION DETECTORS

MEASURING INSTRUMENTS-(CONT.)

- . RIOMETERS
- . RATIONOMETERS
- . RESONANCE PROBES
- . RESPIROMETERS
- . SATELLITE-BORNE INSTRUMENTS
- . ADVANCED VERY HIGH RESOLUTION RADIOMETER
- . AMPS (SATELLITE PAYLOAD)
- . TOTAL OZONE MAPPING SPECTROMETER
- . SCATTEROMETERS
- . SHOCK MEASURING INSTRUMENTS
- . SONDES
- . DROPSONDES
- . JUDI-DART ROCKET
- . RADIOSONDES
- . ENDORADIOSONDES
- . IONOSONDES
- . RAWINSONDES
- . SPECTROMETERS
- . EBERT SPECTROMETERS
- . FABRY-PEROT SPECTROMETERS
- . GAMMA RAY SPECTROMETERS
- . IMAGING SPECTROMETERS
- . INFRARED SPECTROMETERS
- . FILTER WHEEL INFRARED SPECTROMETERS
- . LASER SPECTROMETERS
- . MASS SPECTROMETERS
- . MICROWAVE SPECTROMETERS
- . NEUTRON SPECTROMETERS
- . SOLAR BACKSCATTER UV SPECTROMETER
- . SOLAR SPECTROMETERS
- . SPECTROHELIOGRAPHS
- . TIME OF FLIGHT SPECTROMETERS
- . ULTRAVIOLET SPECTROMETERS
- . HIGH DISPERSION SPECTROGRAPHS
- . TOTAL OZONE MAPPING SPECTROMETER
- . SPUTTERING GAGES
- . STRAIN GAGES
- . TEMPERATURE MEASURING INSTRUMENTS
- . BATHYTHERMOGRAPHS
- . OPTICAL PYROMETERS
- . PYROMETERS
- . RADIATION PYROMETERS
- . THERMOCOUPLE PYROMETERS
- . TEMPERATURE PROBES
- . PNEUMATIC PROBES
- . THERMOMETERS
- . RESISTANCE THERMOMETERS
- . TENSOMETERS
- . TENSOMETERS
- . THERMAL CONDUCTIVITY GAGES
- . TILTMETERS
- . TIME MEASURING INSTRUMENTS
- . CLOCKS
- . ATOMIC CLOCKS
- . AUTONOMOUS SPACECRAFT CLOCKS
- . CHRONOMETERS
- . TIMING DEVICES
- . TITRIMETERS
- . TORQUEMETERS
- . TURBULENCE METERS
- . VIBRATION METERS
- . SEISMOGRAPHS
- . LUNAR SEISMOGRAPHS
- . VISCOMETERS
- . VOLTMETERS
- . MILLIVOLTMETERS
- . WATTMETERS
- . AIRCRAFT INSTRUMENTS
- . AUTOMATIC CONTROL
- . AUTOMATIC TEST EQUIPMENT
- . BIOINSTRUMENTATION
- . CALIBRATING
- . CIRCUMSOLAR TELESCOPES
- . CONTROL MOMENT GYROSCOPES
- . CONTROLLERS
- . DETECTORS
- . DRAG MEASUREMENT
- . DUOCHROMATORS
- . ELECTRIC BRIDGES
- . ELECTRICAL MEASUREMENT
- . FLIGHT INSTRUMENTS
- . FOREST FIRE DETECTION
- . FRAUNHOFER LINE DISCRIMINATORS
- . IMBLMS
- . INSTRUMENT RECEIVERS
- . INSTRUMENT TRANSMITTERS
- . INSTRUMENTS

## MECHANICAL DEVICES

### MEASURING INSTRUMENTS-(CONT.)

INTERNATIONAL SYSTEM OF UNITS  
LABORATORY EQUIPMENT  
LANDING INSTRUMENTS  
LARGE APERTURE SEISMIC ARRAY  
LOCAL SCIENTIFIC SURVEY MODULE  
LUNAR RANGEFINDING  
∞ MEASUREMENT  
METROLOGY  
MICROINSTRUMENTATION  
MONITORS  
NAVIGATION INSTRUMENTS  
∞ PROBES  
PROPELLANT ACTUATED INSTRUMENTS  
RADIO PROBING  
RADIO TELEMETRY  
RAPID BALLISTICS IDENTIFICATION  
RECORDING INSTRUMENTS  
REMOTE SENSORS  
ROCKET-BORNE INSTRUMENTS  
RONCHI TEST  
SATELLITE INSTRUMENTS  
∞ SENSORS  
SODAR  
SOUND DETECTING AND RANGING  
SPACECRAFT INSTRUMENTS  
SYNCHROSCOPES  
TELEMETRY  
∞ TEST EQUIPMENT  
TRANSDUCERS  
ULTRASONIC SCANNERS  
VENTURI TUBES  
WHEATSTONE BRIDGES  
WIND TUNNEL CALIBRATION

### MECHANICAL DEVICES

RT CAMS  
CLAMPS  
CLIPS  
CLUTCHES  
∞ DEVICES  
∞ EQUIPMENT  
HOLDERS  
JIGS  
LEVERS  
LINKAGES  
MACHINE TOOLS  
∞ MECHANISM  
MECHANIZATION  
TOOLS

### MECHANICAL DRAWINGS

USE ENGINEERING DRAWINGS

### MECHANICAL MEASUREMENT

SN (MEASUREMENT OF MECHANICAL  
PROPERTIES, QUANTITIES OR  
CONDITIONS)  
GS MECHANICAL MEASUREMENT  
DISPLACEMENT MEASUREMENT  
DRAG MEASUREMENT  
FLOW MEASUREMENT  
FRICTION MEASUREMENT  
PRESSURE MEASUREMENT  
STRESS MEASUREMENT  
X RAY STRESS MEASUREMENT  
THRUST MEASUREMENT  
VELOCITY MEASUREMENT  
WIND VELOCITY MEASUREMENT  
VIBRATION MEASUREMENT  
WIND MEASUREMENT  
WIND VELOCITY MEASUREMENT  
RT ACCELEROMETERS  
ACOUSTIC MEASUREMENT  
DEFORMETERS  
DENSITY MEASUREMENT  
DEPTH MEASUREMENT  
DYNAMOMETERS  
EXTENSOMETERS  
FLOWMETERS  
∞ MEASUREMENT  
STRAIN GAGES  
TENSIO METERS  
TORQUE METERS  
WEIGHT INDICATORS

### MECHANICAL RESONANCE

USE RESONANT VIBRATION

### MECHANOGRAMS

GS MEASURING INSTRUMENTS  
MECHANOGRAMS  
MEDICAL EQUIPMENT  
MECHANOGRAMS  
RECORDING INSTRUMENTS

### MECHANOGRAMS-(CONT.)

RT MUSCULAR FUNCTION

### MEDICAL SERVICES

GS SERVICES  
RT MEDICAL SERVICES  
AMBULANCES  
FIRST AID  
INTRAVENOUS PROCEDURES  
MOBILE QUARANTINE FACILITY  
PUBLIC HEALTH

### MEMBRANE ANALOGY

USE MEMBRANE STRUCTURES  
STRUCTURAL ANALYSIS

### MEMBRANE STRUCTURES

UF MEMBRANE ANALOGY  
GS MEMBRANES  
MEMBRANE STRUCTURES  
SKIN (STRUCTURAL MEMBER)  
STRUCTURAL MEMBERS  
MEMBRANE STRUCTURES  
SKIN (STRUCTURAL MEMBER)  
RT DIAPHRAGMS (MECHANICS)  
METAL SHELLS  
PERFORATED SHELLS  
SCOTCHLITE (TRADEMARK)  
∞ SHEETS  
SHELLS (STRUCTURAL FORMS)  
∞ STRUCTURES  
THIN WALLED SHELLS  
WEBS (SUPPORTS)

### MEMORY

SN (LIMITED TO SENTIENT  
ORGANISMS-EXCLUDES COMPUTER  
STORAGE DEVICES AND PLASTIC  
MEMORY)  
RT EDUCATION  
LEARNING  
MNEMONICS  
RECOGNITION  
RETENTION (PSYCHOLOGY)

### MENISCI

GS LIQUID SURFACES  
MENISCI  
RT CURVES (GEOMETRY)  
LIQUID-GAS MIXTURES  
LIQUID-SOLID INTERFACES  
LIQUID-VAPOR INTERFACES  
∞ SURFACES

### MERCURE AIRCRAFT

GS TRANSPORT AIRCRAFT  
SHORT HAUL AIRCRAFT  
MERCURE AIRCRAFT  
RT AIRCRAFT  
CARGO AIRCRAFT  
PASSENGER AIRCRAFT

### MERIDIONAL FLOW

GS FLUID FLOW  
GAS FLOW  
AIR FLOW  
AIR CURRENTS  
MERIDIONAL FLOW  
RT ATMOSPHERIC CIRCULATION  
FLOW GEOMETRY  
WIND (METEOROLOGY)  
WIND DIRECTION  
ZONAL FLOW (METEOROLOGY)

### MESH

RT FABRICS  
∞ GRIDS  
STRANDS  
WEBBING  
∞ WEBS

### MESH (MATHEMATICS)

USE COMPUTATIONAL GRIDS

### MESH GENERATION (MATHEMATICS)

USE GRID GENERATION (MATHEMATICS)

### MESSERSCHMITT ME P-180 AIRCRAFT

USE P-180 AIRCRAFT

### MESSERSCHMITT ME P-308 AIRCRAFT

USE P-308 AIRCRAFT

### METAL COMBUSTION

GS COMBUSTION  
METAL COMBUSTION  
RT FUEL COMBUSTION  
GAS-METAL INTERACTIONS  
METALS  
OXIDATION  
PROPELLANT COMBUSTION  
PYROPHORIC MATERIALS  
SOLID PROPELLANT COMBUSTION  
SOLID PROPELLANT IGNITION

### METAL PLATES

UF PLATE (METAL)  
GS STRUCTURAL MEMBERS  
PLATES (STRUCTURAL MEMBERS)  
METAL PLATES  
BOILER PLATE  
RT ARMOR  
BARS  
BILLETS  
FLANGES  
FLAT PLATES  
GIRDER WEBS  
PARALLEL PLATES  
∞ PLATES  
RECTANGULAR PLATES  
SLABS  
THICK PLATES  
THIN PLATES

### METAL SHELLS

GS SHELLS (STRUCTURAL FORMS)  
METAL SHELLS  
RT CIRCULAR SHELLS  
CYLINDRICAL SHELLS  
HEMISPHERICAL SHELLS  
HULLS (STRUCTURES)  
MEMBRANE STRUCTURES  
ORTHOTROPIC SHELLS  
REINFORCED SHELLS  
SKIN (STRUCTURAL MEMBER)  
SPHERICAL SHELLS  
THIN WALLED SHELLS  
TOROIDAL SHELLS

### METEOR 1 ROCKET VEHICLE

GS ROCKET VEHICLES  
METEOR 1 ROCKET VEHICLE  
RT LIQUID PROPELLANT ROCKET ENGINES  
RAMJET ENGINES  
SOLID PROPELLANT ROCKET ENGINES

### METEOROLOGICAL BALLOONS

GS EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
BALLOONS  
METEOROLOGICAL BALLOONS  
JIMSPHERE BALLOONS  
ROBIN BALLOONS  
RT DROPSONDES  
HIGH ALTITUDE BALLOONS  
RADIOSONDES  
RAWINSONDES  
ROCKOONS  
SKYHOOK BALLOONS  
SOUNDING  
SUPERPRESSURE BALLOONS  
TETHERED BALLOONS  
UPPER ATMOSPHERE  
WEATHER FORECASTING

### METEOROLOGICAL RESEARCH AIRCRAFT

RT AIRCRAFT  
DATA ACQUISITION  
RESEARCH AIRCRAFT

### METEOROLOGICAL STATIONS

USE WEATHER STATIONS

### METERS

USE MEASURING INSTRUMENTS

### METHOD OF CHARACTERISTICS

UF CHARACTERISTIC METHOD  
RT CHARACTERISTICS  
COMPRESSIBLE FLUIDS  
FLOW DISTRIBUTION  
HYPERBOLIC FUNCTIONS  
METEOROLOGY  
∞ METHODOLOGY  
PARTIAL DIFFERENTIAL EQUATIONS  
PLASTIC PROPERTIES  
PRANDTL-MEYER EXPANSION  
STEADY FLOW

# **METHOD OF CHARACTERISTICS-(CONT.)**

UNSTEADY FLOW

## **METHOD OF MOMENTS**

RT DISTRIBUTION MOMENTS  
INTEGRAL EQUATIONS  
MATHEMATICAL MODELS  
MATRICES (MATHEMATICS)  
∞ METHODOLOGY  
MOMENT DISTRIBUTION  
MOMENTS  
NUMERICAL ANALYSIS

## **METRIC PHOTOGRAPHY**

GS PHOTOGRAPHY  
. METRIC PHOTOGRAPHY

## **METROLOGY**

RT INTERNATIONAL SYSTEM OF UNITS  
∞ MEASUREMENT  
MEASURING INSTRUMENTS  
METRICATION  
STANDARDS  
UNITS OF MEASUREMENT

## **METROPOLITAN AIRCRAFT**

USE CV-440 AIRCRAFT

## **MH-262 AIRCRAFT**

UF MAX HOLSTE MH-262 AIRCRAFT  
NORD 262 AIRCRAFT  
GS JET AIRCRAFT  
. TURBOPROP AIRCRAFT  
. MH-262 AIRCRAFT  
LIGHT AIRCRAFT  
. MH-262 AIRCRAFT  
MONOPLANES  
. MH-262 AIRCRAFT  
NORD AIRCRAFT  
. MH-262 AIRCRAFT  
TRANSPORT AIRCRAFT  
. MH-262 AIRCRAFT  
RT ∞ AIRCRAFT  
CARGO AIRCRAFT  
PASSENGER AIRCRAFT

## **MICHELSON INTERFEROMETERS**

GS MEASURING INSTRUMENTS  
. INTERFEROMETERS  
. MICHELSON INTERFEROMETERS  
RT ASTROPHYSICS  
RADIO ASTRONOMY  
SPECTROMETERS

## **MICROBALANCES**

UF MICROSCALES  
GS MEASURING INSTRUMENTS  
. INDICATING INSTRUMENTS  
. WEIGHT INDICATORS  
. MICROBALANCES

## **MICROBALLOONS**

GS EXPANDABLE STRUCTURES  
. INFLATABLE STRUCTURES  
. BALLOONS  
. MICROBALLOONS  
RT GLOBULES  
LASERS  
SPHERES  
TARGETS

## **MICROCHANNELS**

RT FREQUENCIES  
IMAGE CONVERTERS  
LIGHT AMPLIFIERS  
MICROCHANNEL PLATES  
MULTI-ANODE MICROCHANNEL ARRAYS  
NIGHT VISION  
OPTICAL EQUIPMENT  
PHOTOCATHODES  
ULTRAVIOLET RADIATION

## **MICROGRAPHY**

USE PHOTOMICROGRAPHY

## **MICROINSTRUMENTATION**

RT MEASURING INSTRUMENTS  
MICROELECTRONICS  
MICROMINIATURIZATION

## **MICROMANOMETERS**

USE MANOMETERS

## **MICROPHONES**

GS AUDIO EQUIPMENT  
. MICROPHONES  
TRANSDUCERS  
. SOUND TRANSDUCERS  
. ELECTROACOUSTIC TRANSDUCERS  
. MICROPHONES  
RT HYDROPHONES  
INTERPHONES  
MAGNETIC TRANSDUCERS  
MONAURAL SIGNALS  
TRANSMITTERS  
ULTRASONIC WAVE TRANSDUCERS

## **MICROPHOTOMETERS**

USE PHOTOMETERS

## **MICROPOLAR FLUIDS**

GS INCOMPRESSIBLE FLUIDS  
. MICROPOLAR FLUIDS  
RT FLUID MECHANICS  
∞ FLUIDS  
MICROSTRUCTURE

## **MICROROCKET ENGINES**

GS ENGINES  
. ROCKET ENGINES  
. MICROROCKET ENGINES  
. ORBIT MANEUVERING ENGINE  
(SPACE SHUTTLE)  
RT ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
MICROTHRUST  
VERNIER ENGINES

## **MICROSCALES**

USE MICROBALANCES

## **MICROSONICS**

GS ACOUSTICS  
. MICROSONICS  
RT ELASTIC PROPERTIES  
PIEZOELECTRIC CRYSTALS  
SOUND FIELDS  
SOUND WAVES  
SURFACE ACOUSTIC WAVE DEVICES  
SURFACE WAVES

## **MICROWAVE INTERFEROMETERS**

GS MEASURING INSTRUMENTS  
. INTERFEROMETERS  
. MICROWAVE INTERFEROMETERS  
MICROWAVE EQUIPMENT  
. MICROWAVE INTERFEROMETERS  
RT FABRY-PEROT INTERFEROMETERS  
PLASMA DIAGNOSTICS

## **MICROWAVE LANDING SYSTEMS**

GS LANDING AIDS  
. MICROWAVE LANDING SYSTEMS  
. MICROWAVE SCANNING BEAM  
LANDING SYSTEM  
RT AIR TRAFFIC CONTROL  
AIRCRAFT LANDING  
AIRCRAFT SAFETY  
APPROACH CONTROL  
AUTOMATED EN ROUTE ATC  
AUTOMATIC LANDING CONTROL  
∞ SYSTEMS

## **MICROWEIGHING**

USE WEIGHT MEASUREMENT

## **MIDAIR COLLISIONS**

GS COLLISIONS  
. MIDAIR COLLISIONS  
. BIRD-AIRCRAFT COLLISIONS  
RT AIR TRAFFIC CONTROL  
AIRCRAFT ACCIDENTS  
AIRCRAFT HAZARDS  
AIRCRAFT SAFETY  
BEACON COLLISION AVOIDANCE  
SYSTEM  
COLLISION AVOIDANCE  
CRASHES  
FLIGHT HAZARDS  
FLIGHT SAFETY  
PILOT ERROR  
THREAT EVALUATION

## **MIDCOURSE GUIDANCE**

GS GUIDANCE (MOTION)  
. MIDCOURSE GUIDANCE  
RT COMMAND GUIDANCE

## **MIDCOURSE GUIDANCE-(CONT.)**

INERTIAL GUIDANCE  
INJECTION GUIDANCE  
RENDEZVOUS GUIDANCE  
SPACECRAFT GUIDANCE  
TERMINAL GUIDANCE  
TRANSEARTH INJECTION  
TRANSLUNAR INJECTION

## **MIDCOURSE TRAJECTORIES**

GS TRAJECTORIES  
. MIDCOURSE TRAJECTORIES  
RT ASCENT TRAJECTORIES  
BALLISTIC TRAJECTORIES  
COASTING FLIGHT  
DESCENT TRAJECTORIES  
PARABOLIC FLIGHT

## **MIG AIRCRAFT**

GS ATTACK AIRCRAFT  
. FIGHTER AIRCRAFT  
. MIG AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
. MIG AIRCRAFT  
SUPERSONIC AIRCRAFT  
. MIG AIRCRAFT  
RT ∞ AIRCRAFT

## **MIL AIRCRAFT**

RT ∞ AIRCRAFT

## **MILITARY AIR FACILITIES**

UF AIRCRAFT BASES  
RT AIR TRAFFIC CONTROL  
∞ AIRCRAFT  
AIRCRAFT CARRIERS  
AIRPORTS  
∞ FACILITIES  
∞ FIELDS  
HANGARS  
HELIPORTS  
LANDING AIDS  
LANDING MATS  
NAVIGATION AIDS  
STATIONS

## **∞ MILITARY AIRCRAFT**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
UF BOEING MILITARY AIRCRAFT  
CESSNA MILITARY AIRCRAFT  
CHANCE-VOUGHT MILITARY AIRCRAFT  
CONVAIR MILITARY AIRCRAFT  
CURTISS-WRIGHT MILITARY AIRCRAFT  
DOUGLAS MILITARY AIRCRAFT  
FAIRCHILD MILITARY AIRCRAFT  
GENERAL DYNAMICS MILITARY  
AIRCRAFT  
HILLER MILITARY AIRCRAFT  
HUGHES MILITARY AIRCRAFT  
REPUBLIC MILITARY AIRCRAFT  
RT A-37 AIRCRAFT  
AH-1G HELICOPTER  
AH-63 HELICOPTER  
AH-64 HELICOPTER  
∞ AIRCRAFT  
AIRCRAFT CARRIERS  
AIRCRAFT SURVIVABILITY  
AIRSHIPS  
ALPHA JET AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
ARMED FORCES  
ARMED FORCES (FOREIGN)  
ARMED FORCES (UNITED STATES)  
ATTACK AIRCRAFT  
ATTACKING (ASSAULTING)  
AWACS AIRCRAFT  
B-1 AIRCRAFT  
BOMBER AIRCRAFT  
C-1A AIRCRAFT  
CARGO AIRCRAFT  
CH-62 HELICOPTER  
CL-600 CHALLENGER AIRCRAFT  
DRONE AIRCRAFT  
DRONE VEHICLES  
E-2 AIRCRAFT  
E-3A AIRCRAFT  
E-4A AIRCRAFT  
FIGHTER AIRCRAFT  
FIREBEE 2 TARGET DRONE AIRCRAFT  
FV-12A AIRCRAFT  
GLIDERS  
GROUND EFFECT MACHINES  
H-60 HELICOPTER

## MILITARY AVIATION

### MILITARY AIRCRAFT-(CONT.)

HARRIER AIRCRAFT  
HELICOPTERS  
JAGUAR AIRCRAFT  
JET AIRCRAFT  
LIGHT AIRCRAFT  
∞ MILITARY AVIATION  
MILITARY HELICOPTERS  
MRCA AIRCRAFT  
NUCLEAR PROPELLED AIRCRAFT  
OBSERVATION AIRCRAFT  
PANAVIA MILITARY AIRCRAFT  
PASSENGER AIRCRAFT  
PILOTLESS AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
ROTARY WING AIRCRAFT  
S-3 AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
SR-71 AIRCRAFT  
SUBMERSIBLE AIRCRAFT  
TAILLESS AIRCRAFT  
TANKER AIRCRAFT  
TARGET DRONE AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
TRAINING AIRCRAFT  
TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT  
V-22 AIRCRAFT  
V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
WEAPON SYSTEMS  
YC-14 AIRCRAFT  
YF-12 AIRCRAFT  
YF-16 AIRCRAFT

### ∞ MILITARY AVIATION

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT ∞ AERONAUTICS  
AIR LAW  
ARMED FORCES  
AVIATION METEOROLOGY  
BOMBER AIRCRAFT  
FIGHTER AIRCRAFT  
∞ MILITARY AIRCRAFT  
RECONNAISSANCE AIRCRAFT

### MILITARY HELICOPTERS

GS V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
AH-1G HELICOPTER  
AH-64 HELICOPTER  
BELL 214A HELICOPTER  
BO-105 HELICOPTER  
CH-3 HELICOPTER  
CH-21 HELICOPTER  
CH-34 HELICOPTER  
CH-46 HELICOPTER  
CH-47 HELICOPTER  
CH-54 HELICOPTER  
H-19 HELICOPTER  
H-43 HELICOPTER  
H-53 HELICOPTER  
H-54 HELICOPTER  
H-56 HELICOPTER  
H-60 HELICOPTER  
HC-3 HELICOPTER  
HEAVY LIFT HELICOPTERS  
CH-62 HELICOPTER  
HH-43 HELICOPTER  
OH-4 HELICOPTER  
OH-5 HELICOPTER  
OH-6 HELICOPTER  
OH-13 HELICOPTER  
OH-23 HELICOPTER  
OH-58 HELICOPTER  
P-531 HELICOPTER  
QH-50 HELICOPTER  
S-58 HELICOPTER  
S-61 HELICOPTER  
SA-321 HELICOPTER  
SA-330 HELICOPTER  
SH-3 HELICOPTER  
SH-4 HELICOPTER  
SIKORSKY WHIRLWIND  
HELICOPTER  
UH-1 HELICOPTER  
UH-2 HELICOPTER  
UH-34 HELICOPTER  
UH-60A HELICOPTER  
UH-61A HELICOPTER

### MILITARY HELICOPTERS-(CONT.)

WESTLAND WHIRLWIND  
HELICOPTER  
XV-8A AIRCRAFT  
RT ∞ AIRCRAFT  
ATTACK AIRCRAFT  
LIGHT HELICOPTERS  
∞ MILITARY AIRCRAFT  
RECONNAISSANCE AIRCRAFT

### MILITARY OPERATIONS

GS MILITARY OPERATIONS  
COMBAT  
ELECTRONIC WARFARE  
RT DEPLOYMENT  
TACTICS  
TANKS (COMBAT VEHICLES)

### ∞ MILITARY VEHICLES

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT AEROQUATIC VEHICLES  
AIRCRAFT CARRIERS  
AMBULANCES  
AMPHIBIOUS VEHICLES  
ARMED FORCES  
ARMED FORCES (FOREIGN)  
ARMED FORCES (UNITED STATES)  
AUTOMOBILES  
BOATS  
MILITARY SPACECRAFT  
RECOVERY VEHICLES  
RESEARCH VEHICLES  
SHIPS  
SUBMARINES  
TANKS (COMBAT VEHICLES)  
TRUCKS  
UNDERWATER VEHICLES  
∞ VEHICLES  
WATER VEHICLES

### MILNE METHOD

GS ANALYSIS (MATHEMATICS)  
NUMERICAL ANALYSIS  
APPROXIMATION  
RT MILNE METHOD  
DIFFERENTIAL EQUATIONS  
∞ METHODOLOGY

### MILNE-THOMSON METHOD

RT INCOMPRESSIBLE FLOW  
∞ METHODOLOGY  
NAVIER-STOKES EQUATION  
VISCOUS FLOW

### MINER RULE

USE PALMGREN-MINER RULE

### MINIMUM DRAG

GS DYNAMIC CHARACTERISTICS  
DRAG  
RT MINIMUM DRAG  
AIRCRAFT PERFORMANCE  
FRICTION DRAG

### MINOR CIRCLE TURNING FLIGHT

GS TURNING FLIGHT  
MINOR CIRCLE TURNING FLIGHT  
RT AIRCRAFT CONTROL  
MANEUVERS

### MINUTEMAN ICBM

UF MINUTEMAN MISSILES  
GS MISSILES  
BALLISTIC MISSILES  
INTERCONTINENTAL BALLISTIC  
MISSILES  
MINUTEMAN ICBM  
SURFACE TO SURFACE MISSILES  
INTERCONTINENTAL BALLISTIC  
MISSILES  
RT MINUTEMAN ICBM  
M-55 ENGINE  
M-56 ENGINE  
M-57 ENGINE  
MULTISTAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES  
SPACE WEAPONS

### MINUTEMAN MISSILES

USE MINUTEMAN ICBM

### MIRAGE AIRCRAFT

GS ATTACK AIRCRAFT  
FIGHTER AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
DASSAULT AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
JET AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
MONOPLANES  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
OBSERVATION AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
SUPERSONIC AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT

### MIRAGE 3 AIRCRAFT

UF DASSAULT MIRAGE 3 AIRCRAFT  
GS ATTACK AIRCRAFT  
FIGHTER AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
DASSAULT AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
JET AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
MONOPLANES  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
OBSERVATION AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
SUPERSONIC AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
TAILLESS AIRCRAFT  
MIRAGE 3 AIRCRAFT

### MISS DISTANCE

GS DISTANCE  
MISS DISTANCE  
RT ACCURACY  
AIR TO SURFACE MISSILES

### MISSILE ANTENNAS

GS ANTENNAS  
MISSILE ANTENNAS  
MISSILE COMPONENTS  
MISSILE ANTENNAS  
RT AIRCRAFT ANTENNAS  
DIRECTIONAL ANTENNAS  
MICROWAVE ANTENNAS

### MISSILE BODIES

UF MISSILE CASES  
GS MISSILE COMPONENTS  
MISSILE BODIES  
RT AIRFRAMES  
AXISYMMETRIC BODIES  
BLUNT BODIES  
∞ BODIES  
CASES (CONTAINERS)  
FINNED BODIES  
ROCKET ENGINE CASES  
SLENDER BODIES  
STREAMLINED BODIES

### MISSILE CASES

USE MISSILE BODIES

### MISSILE COMPONENTS

GS MISSILE COMPONENTS  
MISSILE ANTENNAS  
MISSILE BODIES  
RT ∞ COMPONENTS  
ENGINES



**MISSILE COMPONENTS-(CONT.)**

FINs  
NOSE CONES  
WARHEADS  
WINGS

**MISSILE CONFIGURATIONS**

GS **MISSILE CONFIGURATIONS**  
    . SANDPIPER TARGET MISSILE  
RT AERODYNAMIC CONFIGURATIONS  
    AIRCRAFT CONFIGURATIONS  
    ∞ CONFIGURATIONS  
        HAMMERHEAD CONFIGURATION  
        LAUNCH VEHICLE CONFIGURATIONS  
        MISSILES  
        MULTIENGINE VEHICLES  
        PATRIOT MISSILE  
        PROPULSION SYSTEM CONFIGURATIONS  
        ROCKET ENGINES  
        ROCKET VEHICLES

**MISSILE CONSTRUCTION**

USE MISSILE STRUCTURES

**MISSILE CONTROL**

UF MISSILE GUIDANCE  
MISSILE STABILIZATION  
RT ACTUATORS  
ANALOG COMPUTERS  
ATTITUDE CONTROL  
AUTOMATIC CONTROL  
AUTOMATIC FLIGHT CONTROL  
BEAM RIDER GUIDANCE  
    ∞ CONTROL  
        DIRECTIONAL CONTROL  
        FLIGHT CONTROL  
        GROUND BASED CONTROL  
        HOMING  
        LASER GUIDANCE  
        LATERAL CONTROL  
        LONGITUDINAL CONTROL  
        MISSILES  
        RADAR HOMING MISSILES  
        RADIO CONTROL  
        REMOTE CONTROL  
        ROCKET ENGINE CONTROL  
        SPACECRAFT CONTROL  
        STAR TRACKERS  
        THRUST VECTOR CONTROL  
        VISUAL CONTROL

**MISSILE DEFENSE**

SN (SYSTEMS DESIGNED TO PROTECT  
MISSILES AGAINST ATTACK)  
RT ANTIMISSILE DEFENSE  
ANTIMISSILE MISSILES  
ANTIRADIATION MISSILES  
BALLISTIC MISSILE DECOYS  
    ∞ DEFENSE  
        DEFENSE INDUSTRY  
        DEFENSE PROGRAM  
        HARDENING (SYSTEMS)  
        MILITARY TECHNOLOGY  
        MISSILES  
        OPTICAL COUNTERMEASURES  
        REENTRY DECOYS  
        SAFEGUARD SYSTEM  
        WEAPONS DELIVERY

**MISSILE DESIGN**

RT AEROSPACE ENGINEERING  
AIRCRAFT DESIGN  
COMPUTER AIDED DESIGN  
    ∞ DESIGN  
    ∞ DEVELOPMENT  
        ENGINE DESIGN  
        FLIGHT TESTS  
        FUNCTIONAL DESIGN SPECIFICATIONS  
        MAGNUS EFFECT  
        RELIABILITY  
        STRUCTURAL DESIGN  
        SYSTEMS ENGINEERING

**MISSILE DETECTION**

GS DETECTION  
    . **MISSILE DETECTION**  
    . . RADAR DETECTION  
RT EARLY WARNING SYSTEMS  
ELECTRONIC WARFARE  
IDENTIFYING  
TARGET ACQUISITION  
TARGET RECOGNITION

**MISSILE GUIDANCE**

USE MISSILE CONTROL

**MISSILE LAUNCHERS**

GS LAUNCHERS  
    . **MISSILE LAUNCHERS**  
        . . MOBILE MISSILE LAUNCHERS  
RT BALLISTIC MISSILE SUBMARINES  
CATAPULTS  
GROUND SUPPORT EQUIPMENT  
GUN LAUNCHERS  
LAUNCH VEHICLES  
LAUNCHING  
LAUNCHING SITES  
MISSILES  
ROCKET LAUNCHERS  
SEA LAUNCHING  
WEAPON SYSTEMS

**MISSILE RANGES**

SN (EXCLUDES DISTANCE OF MISSILE  
TRAVEL)  
GS RANGES (FACILITIES)  
    . TEST RANGES  
    . . **MISSILE RANGES**  
        TEST FACILITIES  
        . TEST RANGES  
        . . **MISSILE RANGES**  
RT BALLISTIC RANGES  
DOWNRANGE  
HYPERSONIC TEST APPARATUS  
MISSILES  
RANGE SAFETY  
REENTRY RANGE

**MISSILE SIGNATURES**

GS SIGNATURES  
    . **MISSILE SIGNATURES**  
RT DETECTION  
SIGNATURE ANALYSIS  
TARGET RECOGNITION

**MISSILE SIMULATORS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT COMPUTERIZED SIMULATION  
FLIGHT SIMULATORS  
MATHEMATICAL MODELS  
MISSILES  
SIMULATORS  
TRAINING SIMULATORS  
WIND TUNNEL MODELS

**MISSILE STABILIZATION**

USE MISSILE CONTROL  
STABILIZATION

**MISSILE STORAGE**

RT GROUND SUPPORT EQUIPMENT  
MOBILE MISSILE LAUNCHERS  
PROPELLANT STORAGE  
    ∞ STORAGE  
        UNDERGROUND STORAGE

**MISSILE STRUCTURES**

UF MISSILE CONSTRUCTION  
RT AIRFRAMES  
    ∞ STRUCTURES  
        TAIL ASSEMBLIES

**MISSILE SYSTEMS**

GS WEAPON SYSTEMS  
    . **MISSILE SYSTEMS**  
        . . NIKE X SYSTEMS  
        . . SAFEGUARD SYSTEM  
RT AEROSPACE SYSTEMS  
BEAM RIDER GUIDANCE  
MOBILE MISSILE LAUNCHERS  
RADAR HOMING MISSILES  
    ∞ SYSTEMS

**MISSILE TESTS**

RT CAPTIVE TESTS  
ENGINE TESTS  
FLIGHT TESTS  
FUEL TESTS  
GROUND TESTS  
MISSILES  
PRELAUNCH TESTS  
PROPELLANT TESTS  
STABILITY TESTS  
STATIC TESTS  
TEST FIRING  
TEST VEHICLES  
    ∞ TESTS  
        WIND TUNNEL STABILITY TESTS

**MISSILE TRACKING**

GS TRACKING (POSITION)  
    . **MISSILE TRACKING**  
RT INFRARED TRACKING  
LASER TARGET DESIGNATORS  
POLYSTATION DOPPLER TRACKING  
SYSTEM  
RANGE AND RANGE RATE TRACKING  
SPACE DETECTION AND TRACKING  
SYSTEM  
SPACECRAFT TRACKING  
TRACKING NETWORKS  
TRACKING STATIONS

**MISSILE TRAJECTORIES**

GS TRAJECTORIES  
    . **MISSILE TRAJECTORIES**  
RT ASCENT TRAJECTORIES  
BALLISTIC TRAJECTORIES  
COBRA DANE (RADAR)  
DESCENT TRAJECTORIES  
FLIGHT MECHANICS  
FLIGHT PATHS  
IMPACT PREDICTION  
PARABOLIC FLIGHT  
REENTRY TRAJECTORIES  
SPINNING UNGUIDED ROCKET  
TRAJECTORY  
UNDERWATER TRAJECTORIES

**MISSILE VIBRATION**

GS VIBRATION  
    . STRUCTURAL VIBRATION  
    . . **MISSILE VIBRATION**  
RT BENDING VIBRATION  
BREATHING VIBRATION  
FLUTTER  
LINEAR VIBRATION  
RANDOM VIBRATION  
SELF INDUCED VIBRATION  
SUPERSONIC FLUTTER  
TORSIONAL VIBRATION  
TRANSONIC FLUTTER

**MISSILES**

GS **MISSILES**  
    . AIR SLEW MISSILES  
    . AIR TO AIR MISSILES  
    . . FALCON MISSILE  
    . . MATRA MISSILE  
    . . SIDEWINDER MISSILES  
    . . SPARROW MISSILES  
    . . . SPARROW 2 MISSILE  
    . . . SPARROW 3 MISSILE  
    . AIR TO SURFACE MISSILES  
    . . BULLPUP MISSILES  
    . . CONDOR MISSILE  
    . . HARPOON MISSILE  
    . . HOUND DOG MISSILE  
    . . MAVERICK MISSILES  
    . . QUAIL MISSILE  
    . . SHRIKE MISSILE  
    . . ANTELOPE MISSILE  
    . . ANTI-AIRCRAFT MISSILES  
    . . BOMARC MISSILES  
    . . FALCON MISSILE  
    . . MAULER MISSILE  
    . . NIKE-AJAX MISSILE  
    . . NIKE-HERCULES MISSILE  
    . . REDEYE MISSILE  
    . . SIAM MISSILES  
    . . SIDEWINDER MISSILES  
    . . TARTAR MISSILE  
    . . TERRIER MISSILE  
    . . ANTIMISSILE MISSILES  
    . . MAULER MISSILE  
    . . NIKE-ZEUS MISSILE  
    . . SPARTAN MISSILE  
    . . SPRINT MISSILE  
    . . ANTIRADIATION MISSILES  
    . . ANTISHIP MISSILES  
    . . BALLISTIC MISSILES  
    . . . FIELD ARMY BALLISTIC MISSILES  
    . . . SUBROC MISSILE  
    . . INTERCONTINENTAL BALLISTIC  
        MISSILES  
    . . . ATLAS ICBM  
    . . . ATLAS D ICBM  
    . . . ATLAS E ICBM  
    . . . ATLAS F ICBM  
    . . . MINUTEMAN ICBM  
    . . . TITAN ICBM  
    . . . . TITAN 1 ICBM  
    . . . . TITAN 2 ICBM

## MISSION ADAPTIVE WINGS

### MISSILES-(CONT.)

INTERMEDIATE RANGE BALLISTIC MISSILES  
 BLUE STREAK MISSILE  
 JUPITER MISSILE  
 POLARIS MISSILES  
 POLARIS A1 MISSILE  
 POLARIS A2 MISSILE  
 POLARIS A3 MISSILE  
 PERSHING MISSILE  
 POSEIDON MISSILES  
 SHORT RANGE BALLISTIC MISSILES  
 SKYBOLT MISSILE  
 V-2 MISSILE  
 BLUE STEEL MISSILE  
 BUMBLEBEE PROJECT  
 CORVUS MISSILE  
 OSPREY MISSILE  
 PRECISION GUIDED PROJECTILES  
 RADAR HOMING MISSILES  
 RAMJET MISSILES  
 NAVAHO MISSILE  
 SUPERSONIC LOW ALTITUDE MISSILE  
 SANDPIPER TARGET MISSILE  
 SS-11 MISSILE  
 SURFACE TO AIR MISSILES  
 BLUE GOOSE MISSILE  
 BOMARC MISSILES  
 BOMARC A MISSILE  
 BOMARC B MISSILE  
 CHAPARRAL MISSILE  
 HAWK MISSILE  
 MAULER MISSILE  
 NIKE MISSILES  
 NIKE-AJAX MISSILE  
 NIKE-HERCULES MISSILE  
 NIKE-ZEUS MISSILE  
 PATRIOT MISSILE  
 REDEYE MISSILE  
 SPRINT MISSILE  
 TALOS MISSILE  
 TARTAR MISSILE  
 TERRIER MISSILE  
 SURFACE TO SURFACE MISSILES  
 ANTITANK MISSILES  
 SHILLELAGH MISSILES  
 TOW MISSILES  
 CORPORAL MISSILE  
 CRUISE MISSILES  
 NAVAHO MISSILE  
 TOMAHAWK MISSILES  
 FLEET BALLISTIC MISSILES  
 POLARIS A1 MISSILE  
 POLARIS A2 MISSILE  
 POLARIS A3 MISSILE  
 POSEIDON MISSILES  
 SUBROC MISSILE  
 INTERCONTINENTAL BALLISTIC MISSILES  
 ATLAS ICBM  
 ATLAS D ICBM  
 ATLAS E ICBM  
 ATLAS F ICBM  
 MINUTEMAN ICBM  
 MX MISSILE  
 TITAN ICBM  
 TITAN 1 ICBM  
 TITAN 2 ICBM  
 INTERMEDIATE RANGE BALLISTIC MISSILES  
 BLUE STREAK MISSILE  
 JUPITER MISSILE  
 POLARIS MISSILES  
 POLARIS A1 MISSILE  
 POLARIS A2 MISSILE  
 POLARIS A3 MISSILE  
 LANCE MISSILE  
 MACE MISSILES  
 PERSHING MISSILE  
 REGULUS MISSILE  
 SERGEANT MISSILES  
 SHORT RANGE BALLISTIC MISSILES  
 SUPERSONIC LOW ALTITUDE MISSILE  
 V-1 MISSILE  
 UNDERWATER TO SURFACE MISSILES  
 SUBROC MISSILE  
 AMMUNITION  
 ANTIMISSILE DEFENSE  
 ANTISHIP WARFARE  
 ARTILLERY  
 ASCENT PROPULSION SYSTEMS  
 AUXILIARY PROPULSION  
 BOMBS (ORDNANCE)  
 FLIGHT TEST VEHICLES  
 FLIGHT VEHICLES  
 GROUND SUPPORT EQUIPMENT

### MISSILES-(CONT.)

GUIDANCE (MOTION)  
 HOMING DEVICES  
 HYPERSONIC FLIGHT  
 INCENDIARY AMMUNITION  
 LAUNCH VEHICLES  
 LAUNCHING SITES  
 MISSILE CONFIGURATIONS  
 MISSILE CONTROL  
 MISSILE DEFENSE  
 MISSILE LAUNCHERS  
 MISSILE RANGES  
 MISSILE SIMULATORS  
 MISSILE TESTS  
 MULTIENGINE VEHICLES  
 NIKE X SYSTEMS  
 NUCLEAR WEAPONS  
 PLASMA SHEATHS  
 PROPULSION  
 REENTRY  
 REENTRY VEHICLES  
 ROCKET CATAPULTS  
 ROCKET ENGINES  
 ROCKET PROPELLANTS  
 ROCKETS  
 SCRAM  
 SPACECRAFT LAUNCHING  
 SPIN STABILIZATION  
 STAGE SEPARATION  
 SUPERSONIC COMBUSTION RAMJET ENGINES  
 SUPERSONIC FLIGHT  
 TERMINAL BALLISTICS  
 TEST VEHICLES  
 TORPEDOES  
 TRAJECTORIES  
 TRANSPORTATION  
 VEHICLES  
 WARHEADS  
 WEAPON SYSTEMS  
 WEAPONS  
 WINGED VEHICLES

### MISSION ADAPTIVE WINGS

GS AIRFOILS  
 WINGS  
 MISSION ADAPTIVE WINGS  
 ADAPTIVE CONTROL  
 F-111 AIRCRAFT  
 GUST ALLEVIATORS  
 VARIABLE GEOMETRY STRUCTURES  
 VARIABLE SWEEP WINGS  
 WING CAMBER  
 WING PROFILES

### MIXED FLOW

USE MULTIPHASE FLOW

### MIXERS

SN (EXCLUDES MIXING CIRCUITS)  
 RT ADMIXTURES  
 AERATION  
 AEROSOLS  
 AGITATION  
 BAFFLES  
 BLOWERS  
 CARBURETORS  
 COALESCING  
 CONTACTORS  
 DIFFUSERS  
 DISPERSION  
 FEEDERS  
 GRINDING MILLS  
 MIXING  
 MIXTURES  
 PADDLES  
 PLOWS  
 PLUNGERS  
 SEPARATORS  
 SHAKERS  
 SPRAYERS  
 STIRRING  
 TUMBLING MOTION

### MIXING

GS MIXING  
 COLLOIDING  
 COMPOUNDING  
 DISSOLVING  
 HOMOGENIZING  
 LAMINAR MIXING  
 PREMIXING  
 SIGNAL MIXING  
 SUSPENDING (MIXING)  
 TURBULENT MIXING

### MIXING-(CONT.)

RT AERATION  
 AGITATION  
 BLOWING  
 CHOKES  
 DIFFUSION  
 DILUTION  
 GRINDING (COMMINUTION)  
 JET MIXING FLOW  
 LIQUID INJECTION  
 METAL POWDER  
 MIXERS  
 MIXING LAYERS (FLUIDS)  
 MIXTURES  
 PREMIXED FLAMES  
 SEPARATION  
 SHAKING  
 SPRAYING  
 SWIRLING  
 TANGLING  
 TRAPPED VORTICES  
 TURBULENCE  
 VORTICES

### MIXING LAYERS (FLUIDS)

RT ADVECTION  
 ATMOSPHERIC BOUNDARY LAYER  
 ATMOSPHERIC STRATIFICATION  
 BOUNDARY LAYERS  
 CONVECTION  
 EKMAN LAYER  
 JET MIXING FLOW  
 LAMINAR MIXING  
 LAYERS  
 MIXING  
 MIXING LENGTH FLOW THEORY  
 SHEAR LAYERS  
 TURBULENT BOUNDARY LAYER  
 TURBULENT MIXING  
 TWO FLUID MODELS

### MIXING LENGTH FLOW THEORY

GS FLOW THEORY  
 MIXING LENGTH FLOW THEORY  
 KINETIC THEORY  
 TRANSPORT THEORY  
 MIXING LENGTH FLOW THEORY  
 RT MIXING LAYERS (FLUIDS)  
 SHEAR FLOW  
 THEORIES  
 TURBULENCE MODELS  
 TURBULENT FLOW  
 TURBULENT MIXING  
 VORTICITY TRANSPORT HYPOTHESIS

### MIXTURES

UF BLENDS  
 GS MIXTURES  
 ADMIXTURES  
 BINARY MIXTURES  
 BINARY FLUIDS  
 EUTECTICS  
 EUTECTIC ALLOYS  
 DISPERSIONS  
 COLLOIDS  
 AEROSOLS  
 FOG  
 COLLOIDAL PROPELLANTS  
 EMULSIONS  
 PHOTOGRAPHIC EMULSIONS  
 NUCLEAR EMULSIONS  
 LIQUID-GAS MIXTURES  
 AEROSOLS  
 FOG  
 PLASTISOLS  
 SMOKE  
 POLYMER BLENDS  
 SIALON  
 SLURRIES  
 SOLID SUSPENSIONS  
 SOLUTIONS  
 AQUEOUS SOLUTIONS  
 GAS MIXTURES  
 AIR  
 ALVEOLAR AIR  
 COMPRESSED AIR  
 EXPIRED AIR  
 HIGH TEMPERATURE AIR  
 LIQUID AIR  
 DETONABLE GAS MIXTURES  
 PHOTOGRAPHIC EMULSIONS  
 NUCLEAR EMULSIONS  
 SOLID SOLUTIONS  
 RT ALLOYS  
 AZEOTROPES

**MIXTURES-(CONT.)**

∞ COMBINATION  
COMPOSITE MATERIALS  
COMPOSITION (PROPERTY)  
DISSOLVED GASES  
EUTECTIC COMPOSITES  
FORMULATIONS  
INGREDIENTS  
MIXERS  
MIXING  
PASTE (CONSISTENCY)  
SOLUBILITY

**MOBILE LOUNGES**

RT AIRFIELD SURFACE MOVEMENTS  
AIRPORTS  
GROUND HANDLING  
∞ LOUNGES

**MODAL RESPONSE**

UF MODE SHAPES  
GS RESPONSES  
MODAL RESPONSE  
RT DYNAMIC RESPONSE  
STROKING TESTS

**MODE SHAPES**

USE MODAL RESPONSE

**MOHAWK AIRCRAFT**

USE OV-1 AIRCRAFT

**MOIRE INTERFEROMETRY**

GS INTERFEROMETRY  
MOIRE INTERFEROMETRY  
RT DIFFRACTION PATTERNS  
HOLOGRAPHIC INTERFEROMETRY  
MOIRE EFFECTS

**MOLECULAR COLLISIONS**

GS COLLISIONS  
MOLECULAR COLLISIONS  
PARTICLE INTERACTIONS  
MOLECULAR INTERACTIONS  
MOLECULAR COLLISIONS  
RT ATOMIC COLLISIONS  
∞ INTERACTIONS  
PARTICLE COLLISIONS  
RIGID ROTORS (PLASMA PHYSICS)

**MOLECULAR DIFFUSION**

GS DIFFUSION  
MOLECULAR DIFFUSION  
RT ATMOSPHERIC DIFFUSION  
DIFFUSION COEFFICIENT  
DIFFUSION WAVES  
DISSOCIATION  
GASEOUS DIFFUSION  
GASEOUS SELF-DIFFUSION  
PARTICLE DIFFUSION  
SELF DIFFUSION (SOLID STATE)  
SURFACE DIFFUSION

**MOLECULAR ELECTRONICS**

GS ELECTROPHYSICS  
MOLECULAR ELECTRONICS  
RT DTL INTEGRATED CIRCUITS  
∞ ELECTRONICS  
INTEGRATED CIRCUITS  
LARGE SCALE INTEGRATION  
LINEAR INTEGRATED CIRCUITS  
MEDIUM SCALE INTEGRATION  
MICROELECTRONICS  
MICROMINIATURIZATION  
MINIATURE ELECTRONIC EQUIPMENT  
MONOMOLECULAR FILMS  
PI-ELECTRONS  
SEMICONDUCTOR DEVICES  
THIN FILMS  
TTL INTEGRATED CIRCUITS  
VERY LARGE SCALE INTEGRATION

**MOLECULAR FLOW**

SN (FLOW WITH KNUDSEN NUMBERS  
GREATER THAN 0.01--FOR SPECIFIC  
FLOWS IN THIS RANGE USE  
NARROWER TERMS--FOR DUCTED  
MOLECULAR FLOW USE KNUDSEN  
FLOW)  
GS FLUID FLOW  
GAS FLOW  
MOLECULAR FLOW  
SLIP FLOW  
TRANSITION FLOW

**MOLECULAR FLOW-(CONT.)**

RT BOUNDARY LAYER TRANSITION  
CONTINUUM FLOW  
KNUDSEN FLOW  
LOW DENSITY FLOW  
RAREFIED GAS DYNAMICS  
TRANSPIRATION

**MOLECULAR GASES**

GS GASES  
MOLECULAR GASES  
POLAR GASES  
POLYATOMIC GASES  
DIATOMIC GASES  
RT ASSOCIATION REACTIONS  
GAS DYNAMICS  
MONATOMIC GASES  
NONPOLAR GASES  
RAREFIED GASES  
REAL GASES

**MOLECULAR INTERACTIONS**

GS PARTICLE INTERACTIONS  
MOLECULAR INTERACTIONS  
MOLECULAR COLLISIONS  
RT ASSOCIATION REACTIONS  
CONFIGURATION INTERACTION  
DISSOCIATION  
∞ INTERACTIONS  
INTERMOLECULAR FORCES  
INTERNUCLEAR PROPERTIES  
INTERSTELLAR CHEMISTRY  
IONIC REACTIONS  
LENNARD-JONES POTENTIAL  
MASS FLOW  
∞ MOLECULAR PHYSICS  
TRANSPORT THEORY

**MOLECULAR TRAJECTORIES**

GS TRAJECTORIES  
MOLECULAR TRAJECTORIES  
RT GAS FLOW

**MOLLIER DIAGRAM**

UF ENTHALPY-ENTROPY DIAGRAMS  
GS CHARTS  
GRAPHS (CHARTS)  
MOLLIER DIAGRAM  
DIAGRAMS  
MOLLIER DIAGRAM  
RT ENTHALPY  
ENTROPY  
EQUATIONS OF STATE  
IDEAL FLUIDS  
ISENTROPE  
THERMODYNAMICS

**MOMENTS**

GS MOMENTS  
BENDING MOMENTS  
DIPOLE MOMENTS  
ELECTRIC MOMENTS  
MAGNETIC MOMENTS  
DISTRIBUTION MOMENTS  
MEAN  
ORTHOGONALITY  
STANDARD DEVIATION  
LOADING MOMENTS  
MOMENTS OF INERTIA  
STABILITY DERIVATIVES  
PITCHING MOMENTS  
ROLLING MOMENTS  
YAWING MOMENTS  
TORQUE  
RT METHOD OF MOMENTS  
MODE (STATISTICS)  
MOMENT DISTRIBUTION  
MOMENTUM  
SKEWNESS  
TORSION  
VARIANCE (STATISTICS)

**MONATOMIC GASES**

UF ATOMIC GASES  
GS GASES  
MONATOMIC GASES  
RT CHAPMAN-ENSKOG THEORY  
MOLECULAR GASES  
RARE GASES  
REAL GASES

**MONAURAL SIGNALS**

RT AUDIO EQUIPMENT  
AUDIO FREQUENCIES  
AUDITORY PERCEPTION

**MONAURAL SIGNALS-(CONT.)**

AUDITORY SIGNALS  
LOUDSPEAKERS  
MICROPHONES  
SOUND TRANSMISSION

**MONITORS**

RT AIRCRAFT INSTRUMENTS  
ALARM PROJECT  
ANALYZERS  
CONICAL SCANNING  
COUNTERS  
DATA RECORDERS  
DETECTORS  
DISPLAY DEVICES  
ENVIRONMENTAL MONITORING  
GAS DETECTORS  
HELMET MOUNTED DISPLAYS  
IN-FLIGHT MONITORING  
INSTRUMENTS  
MEASUREMENT  
MEASURING INSTRUMENTS  
OPTICAL SCANNERS  
POLLUTION MONITORING  
RADIATION MEASURING INSTRUMENTS  
SCANNING  
WARNING  
WARNING SYSTEMS

**MONOCOQUE STRUCTURES**

RT CYLINDERS  
SHELLS (STRUCTURAL FORMS)  
STRESSED-SKIN STRUCTURES  
STRUCTURES

**MONOMOLECULAR FILMS**

GS SURFACE LAYERS  
MONOMOLECULAR FILMS  
THIN FILMS  
MONOMOLECULAR FILMS  
RT ENERGY ABSORPTION FILMS  
FILMS  
INTEGRATED OPTICS  
LAYERS  
MOLECULAR ELECTRONICS  
SURFACTANTS  
THIN LAYER CHROMATOGRAPHY

**MONOPLANES**

GS MONOPLANES  
A-1 AIRCRAFT  
A-2 AIRCRAFT  
A-3 AIRCRAFT  
A-4 AIRCRAFT  
A-5 AIRCRAFT  
A-6 AIRCRAFT  
A-7 AIRCRAFT  
A-37 AIRCRAFT  
AN-2 AIRCRAFT  
AN-22 AIRCRAFT  
AN-24 AIRCRAFT  
ARGOSY MK-1 AIRCRAFT  
AVRO 707 AIRCRAFT  
B-26 AIRCRAFT  
B-47 AIRCRAFT  
B-50 AIRCRAFT  
B-52 AIRCRAFT  
B-57 AIRCRAFT  
B-58 AIRCRAFT  
B-66 AIRCRAFT  
B-70 AIRCRAFT  
BAC 111 AIRCRAFT  
BEECHCRAFT 18 AIRCRAFT  
BOEING 707 AIRCRAFT  
BOEING 720 AIRCRAFT  
BOEING 733 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOEING 757 AIRCRAFT  
BOEING 767 AIRCRAFT  
BREGUET 940 AIRCRAFT  
BREGUET 941 AIRCRAFT  
BREGUET 1150 AIRCRAFT  
BUCCANEER AIRCRAFT  
C-2 AIRCRAFT  
C-33 AIRCRAFT  
C-35 AIRCRAFT  
C-46 AIRCRAFT  
C-47 AIRCRAFT  
C-54 AIRCRAFT  
C-118 AIRCRAFT  
C-121 AIRCRAFT  
C-123 AIRCRAFT  
C-124 AIRCRAFT  
C-130 AIRCRAFT  
C-131 AIRCRAFT

## MONTE CARLO METHOD

### MONOPLANES-(CONT.)

C-133 AIRCRAFT  
 C-135 AIRCRAFT  
 C-140 AIRCRAFT  
 C-141 AIRCRAFT  
 C-180 AIRCRAFT  
 CANBERRA AIRCRAFT  
 CESSNA L-19 AIRCRAFT  
 CESSNA 172 AIRCRAFT  
 CESSNA 205 AIRCRAFT  
 CESSNA 210 AIRCRAFT  
 CESSNA 402B AIRCRAFT  
 CL-41 AIRCRAFT  
 CL-44 AIRCRAFT  
 COMET 4 AIRCRAFT  
 CV-340 AIRCRAFT  
 CV-440 AIRCRAFT  
 CV-880 AIRCRAFT  
 CV-990 AIRCRAFT  
 D-558 AIRCRAFT  
 DC 3 AIRCRAFT  
 DC 7 AIRCRAFT  
 DC 8 AIRCRAFT  
 DH 112 AIRCRAFT  
 DH 115 AIRCRAFT  
 DH 121 AIRCRAFT  
 DH 125 AIRCRAFT  
 DHC 2 AIRCRAFT  
 DHC 4 AIRCRAFT  
 DHC 5 AIRCRAFT  
 DO-27 AIRCRAFT  
 DO-28 AIRCRAFT  
 DO-31 AIRCRAFT  
 EC-121 AIRCRAFT  
 ELECTRA AIRCRAFT  
 F-2 AIRCRAFT  
 F-5 AIRCRAFT  
 F-8 AIRCRAFT  
 F-9 AIRCRAFT  
 F-17 AIRCRAFT  
 F-27 AIRCRAFT  
 F-28 TRANSPORT AIRCRAFT  
 F-84 AIRCRAFT  
 F-86 AIRCRAFT  
 F-89 AIRCRAFT  
 F-94 AIRCRAFT  
 F-100 AIRCRAFT  
 F-102 AIRCRAFT  
 F-104 AIRCRAFT  
 F-105 AIRCRAFT  
 F-106 AIRCRAFT  
 FD 2 AIRCRAFT  
 G-1 AIRCRAFT  
 G-91 AIRCRAFT  
 G-95/4 AIRCRAFT  
 G-222 AIRCRAFT  
 GA-5 AIRCRAFT  
 H-126 AIRCRAFT  
 HFB-320 AIRCRAFT  
 HP-115 AIRCRAFT  
 HS-748 AIRCRAFT  
 IL-14 AIRCRAFT  
 IL-62 AIRCRAFT  
 JET PROVOST AIRCRAFT  
 JINDIVIK TARGET AIRCRAFT  
 L-29 JET TRAINER  
 LOCKHEED MODEL 18 AIRCRAFT  
 MH-262 AIRCRAFT  
 MIRAGE AIRCRAFT  
 . MIRAGE 3 AIRCRAFT  
 MYSTERE 20 AIRCRAFT  
 NORD 1500 AIRCRAFT  
 OV-1 AIRCRAFT  
 OV-10 AIRCRAFT  
 P-3 AIRCRAFT  
 P-51 AIRCRAFT  
 P-166 AIRCRAFT  
 P-308 AIRCRAFT  
 P-1052 AIRCRAFT  
 P-1127 AIRCRAFT  
 P-1154 AIRCRAFT  
 PD-808 AIRCRAFT  
 PHANTOM AIRCRAFT  
 . F-4 AIRCRAFT  
 RB-50 AIRCRAFT  
 RF-4 AIRCRAFT  
 S-2 AIRCRAFT  
 SAAB 105 AIRCRAFT  
 SC-1 AIRCRAFT  
 SC-5 AIRCRAFT  
 SC-7 AIRCRAFT  
 SCIMITAR AIRCRAFT  
 SE-210 AIRCRAFT  
 SHACKLETON BOMBER  
 T-2 AIRCRAFT  
 T-28 AIRCRAFT

### MONOPLANES-(CONT.)

T-33 AIRCRAFT  
 T-37 AIRCRAFT  
 T-38 AIRCRAFT  
 T-39 AIRCRAFT  
 TS-11 AIRCRAFT  
 TSR-2 AIRCRAFT  
 TU-104 AIRCRAFT  
 TU-124 AIRCRAFT  
 TU-134 AIRCRAFT  
 U-2 AIRCRAFT  
 U-10 AIRCRAFT  
 VALIANT AIRCRAFT  
 VC-10 AIRCRAFT  
 VICTOR MK-1 AIRCRAFT  
 VISCOUNT AIRCRAFT  
 VJ-101 AIRCRAFT  
 X-1 AIRCRAFT  
 X-2 AIRCRAFT  
 X-3 AIRCRAFT  
 X-5 AIRCRAFT  
 X-13 AIRCRAFT  
 X-14 AIRCRAFT  
 X-21 AIRCRAFT  
 X-21A AIRCRAFT  
 XC-142 AIRCRAFT  
 XV-4 AIRCRAFT  
 XV-5 AIRCRAFT  
 YS-11 AIRCRAFT  
 Z-37 AIRCRAFT  
 RT AERODYNAMIC CONFIGURATIONS  
 ∞ AIRCRAFT  
 AIRFOILS  
 BIPLANES  
 CARGO AIRCRAFT  
 GLIDERS  
 ∞ LOW WING AIRCRAFT  
 SEAPLANES  
 TAILLESS AIRCRAFT  
 WATER TAKEOFF AND LANDING  
 AIRCRAFT  
 WING PLANFORMS  
 WING PROFILES  
 ∞ WINGED VEHICLES

### MONTE CARLO METHOD

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . MONTE CARLO METHOD  
 RT DIFFUSION THEORY  
 EXPECTANCY HYPOTHESIS  
 GAME THEORY  
 MARKOV CHAINS  
 MATHEMATICAL MODELS  
 ∞ METHODOLOGY  
 PROBABILITY THEORY  
 RANDOM PROCESSES  
 RANDOM WALK  
 RENORMALIZATION GROUP METHODS  
 SIMULATION  
 STATISTICAL ANALYSIS  
 STOCHASTIC PROCESSES  
 TRANSPORT THEORY

### MOORING

UF MOORINGS  
 RT AIRPORTS  
 ANCHORS (FASTENERS)  
 FASTENERS  
 ∞ JOINING  
 MATERIALS HANDLING  
 MULTIPLE DOCKING ADAPTERS  
 SPACECRAFT DOCKING

### MOORINGS

USE MOORING

### MOPS (PROPULSION SYSTEMS)

USE MAN OPERATED PROPULSION SYSTEMS

### MORSE POTENTIAL

RT DIATOMIC MOLECULES  
 KINETIC THEORY  
 POTENTIAL ENERGY

### ∞ MOTION

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)  
 UF MOVEMENT  
 RT ACCELERATION (PHYSICS)  
 ATTITUDE (INCLINATION)  
 BROWNIAN MOVEMENTS  
 DISPLACEMENT  
 DOMAIN WALL

### MOTION-(CONT.)

GLIDING  
 GYRATION  
 HARMONIC MOTION  
 HEAD MOVEMENT  
 HEAVING  
 HIGH ACCELERATION  
 IMMOBILIZATION  
 INERTIA  
 ION MOTION  
 IONIC MOBILITY  
 KINEMATICS  
 LIBRATION  
 MOMENTUM  
 NUTATION  
 ORBITS  
 OSCILLATIONS  
 OSCILLATORS  
 PARTICLE MOTION  
 PARTICLE TRAJECTORIES  
 PITCH (INCLINATION)  
 ROTATION  
 SACCADIC EYE MOVEMENTS  
 SOLAR ORBITS  
 SPACECRAFT MOTION  
 SPACECRAFT TRAJECTORIES  
 STELLAR MOTIONS  
 SWARMING  
 TEETERING  
 TRANSIT TIME  
 TRANSLATIONAL MOTION  
 TUMBLING MOTION  
 TURBULENCE  
 VELOCITY  
 VERTICAL MOTION  
 VERTICAL MOTION SIMULATORS  
 VIBRATION  
 VISCOSITY  
 YAW

### MOTION EQUATIONS

USE EQUATIONS OF MOTION

### MOTION PICTURES

UF CINEFLUOROGRAPHY  
 CINERADIOGRAPHY  
 PHOTOGRAPHS  
 RT . MOTION PICTURES  
 ANIMATION  
 CHRONOPHOTOGRAPHY  
 CINEMATOGRAPHY  
 COMPUTER ANIMATION  
 GRAPHIC ARTS  
 PROJECTORS  
 SUPPLEMENTS  
 VIDEO EQUIPMENT  
 VIDEO TAPES

### MOTION SIMULATION

GS HUMAN FACTORS ENGINEERING  
 . MOTION SIMULATION  
 SIMULATION  
 . MOTION SIMULATION  
 RT FLIGHT SIMULATION  
 FLIGHT SIMULATORS  
 MOTION SIMULATORS

### MOTION SIMULATORS

GS SIMULATORS  
 . MOTION SIMULATORS  
 RT COMPUTERIZED SIMULATION  
 CONTROL SIMULATION  
 FLIGHT SIMULATORS  
 MOTION SIMULATION  
 SPACE ENVIRONMENT SIMULATION  
 TEST FACILITIES

### MOTION STABILITY

GS DYNAMIC CHARACTERISTICS  
 . DYNAMIC STABILITY  
 . MOTION STABILITY  
 . . . AERODYNAMIC STABILITY  
 . . . AIRCRAFT STABILITY  
 . . . HOVERING STABILITY  
 . . . ATTITUDE STABILITY  
 . . . DIRECTIONAL STABILITY  
 . . . GYROSCOPIC STABILITY  
 . . . LATERAL STABILITY  
 . . . LONGITUDINAL STABILITY  
 . . . FLOW STABILITY  
 . . . BOUNDARY LAYER STABILITY  
 . . . FLAME STABILITY  
 . . . MAGNETOHYDRODYNAMIC  
 STABILITY  
 . . . WEIBEL INSTABILITY

**MOTION STABILITY-(CONT.)**

... LOW SPEED STABILITY  
 ... ROTARY STABILITY  
 ... GYROSCOPIC STABILITY  
 ... SPACECRAFT STABILITY  
 STABILITY  
 ... DYNAMIC STABILITY  
 ... **MOTION STABILITY**  
 ... AERODYNAMIC STABILITY  
 ... AIRCRAFT STABILITY  
 ... HOVERING STABILITY  
 ... ATTITUDE STABILITY  
 ... DIRECTIONAL STABILITY  
 ... GYROSCOPIC STABILITY  
 ... LATERAL STABILITY  
 ... LONGITUDINAL STABILITY  
 ... FLOW STABILITY  
 ... BOUNDARY LAYER STABILITY  
 ... FLAME STABILITY  
 ... MAGNETOHYDRODYNAMIC STABILITY  
 ... WEIBEL INSTABILITY  
 ... LOW SPEED STABILITY  
 ... ROTARY STABILITY  
 ... GYROSCOPIC STABILITY  
 ... SPACECRAFT STABILITY  
 RT COMBUSTION STABILITY  
 CONTROL STABILITY  
 DYNAMIC TESTS  
 ROUGHNESS  
 SEA KEEPING  
 SPACECRAFT MOTION  
 STABLE OSCILLATIONS  
 SURFACE STABILITY

**MOTORS**

SN (LIMITED TO MACHINES SUPPLIED WITH EXTERNAL ENERGY WHICH IS CONVERTED INTO FORCE AND/OR MOTION-SEE ENGINES FOR MACHINES WITH SELF-CONTAINED POWER SOURCES)  
 GS **MOTORS**  
 ... ELECTRIC MOTORS  
 ... ASYNCHRONOUS MOTORS  
 ... INDUCTION MOTORS  
 ... MICROMOTORS  
 ... STEPPING MOTORS  
 ... SYNCHRONOUS MOTORS  
 ... TORQUE MOTORS  
 ... SERVO MOTORS  
 RT APOGEE BOOST MOTORS  
 ... ELECTRIC EQUIPMENT  
 ENERGY CONVERSION EFFICIENCY  
 ENGINES  
 ... GENERATORS  
 HYDRAULIC EQUIPMENT  
 STATORS

**MOUNTING**

GS **MOUNTING**  
 ... RIGID MOUNTING  
 RT ASSEMBLING  
 ... ATTACHMENT  
 BRACKETS  
 ... JOINING  
 SUSPENDING (HANGING)

**MOVEMENT**

USE MOTION

**MRCIA AIRCRAFT**

UF MULTI-ROLE COMBAT AIRCRAFT  
 TORNADO AIRCRAFT  
 RT ... AIRCRAFT  
 ATTACK AIRCRAFT  
 FIGHTER AIRCRAFT  
 ... MILITARY AIRCRAFT

**MUFFLERS**

RT ACOUSTIC RETROFITTING  
 AIRCRAFT NOISE  
 ATTENUATORS  
 BAFFLES  
 DAMPING  
 ... DIFFUSERS  
 EXHAUST SYSTEMS  
 FURNACES  
 JET AIRCRAFT NOISE  
 NOISE (SOUND)  
 NOISE REDUCTION  
 PROPELLER NOISE  
 ROCKET ENGINE NOISE  
 SILENCERS  
 SUPPRESSORS

**MULTI-ROLE COMBAT AIRCRAFT**

USE MRCIA AIRCRAFT

**MULTIENGINE VEHICLE**

RT ... AIRCRAFT  
 B-1 AIRCRAFT  
 LAUNCH VEHICLES  
 LIGHT TRANSPORT AIRCRAFT  
 MISSILE CONFIGURATIONS  
 MISSILES  
 MULTISTAGE ROCKET VEHICLES  
 RECOVERABLE LAUNCH VEHICLES  
 ROCKET VEHICLES  
 ... VEHICLES

**MULTILAYER INSULATION**

GS INSULATION  
 ... **MULTILAYER INSULATION**  
 INTERLAYERS  
 ... **MULTILAYER INSULATION**  
 COMPOSITE MATERIALS  
 CRYOGENIC FLUID STORAGE  
 FABRICS  
 ... FOILS  
 FOILS (MATERIALS)  
 LAMINATES  
 ... LAYERS  
 METAL FOILS  
 PLY ORIENTATION  
 SANDWICH STRUCTURES  
 ... SHEETS

**MULTIPHASE FLOW**

UF MIXED FLOW  
 GS FLUID FLOW  
 ... **MULTIPHASE FLOW**  
 ... TWO PHASE FLOW  
 RT CONICAL FLOW  
 CRITICAL FLOW  
 CROCCO-LEE THEORY  
 FLOW DISTORTION  
 FLOW MEASUREMENT  
 GAS FLOW  
 LAMINAR FLOW  
 LIQUID FLOW  
 MASS FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE GRADIENTS  
 SINGLE-PHASE FLOW  
 SOLIDS FLOW  
 STEADY FLOW  
 STEAM FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENT FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW

**MULTISPECTRAL PHOTOGRAPHY**

GS PHOTOGRAPHY  
 ... **MULTISPECTRAL PHOTOGRAPHY**  
 ... INFRARED PHOTOGRAPHY  
 ... COLOR INFRARED PHOTOGRAPHY  
 ... RADAR PHOTOGRAPHY  
 RT CHANGE DETECTION  
 CROP IDENTIFICATION  
 EARTH OBSERVATIONS (FROM SPACE)  
 IMAGE RESOLUTION  
 IMAGERY  
 IMAGING TECHNIQUES  
 I2S CAMERAS  
 SPECTRAL RECONNAISSANCE

**MULTISTAGE COMPRESSORS**

USE TURBOCOMPRESSORS

**MULTISTAGE ROCKET VEHICLES**

GS ROCKET VEHICLES  
 ... **MULTISTAGE ROCKET VEHICLES**  
 ... ABLESTAR LAUNCH VEHICLE  
 ... ANTARES ROCKET VEHICLE  
 ... ARGO ROCKET VEHICLES  
 ... ARIANE LAUNCH VEHICLE  
 ... ASTROBEE ROCKET VEHICLES  
 ... ASTROBEE 1500 ROCKET VEHICLE  
 ... ATHENA ROCKET VEHICLE  
 ... ATLAS LAUNCH VEHICLES  
 ... ATLAS ABLE 5 LAUNCH VEHICLE  
 ... ATLAS AGENA B LAUNCH VEHICLE  
 ... ATLAS AGENA LAUNCH VEHICLES  
 ... ATLAS CENTAUR LAUNCH VEHICLE  
 ... ATLAS SLV-3 LAUNCH VEHICLE  
 ... BERENICE ROCKET VEHICLE  
 ... BLACK KNIGHT ROCKET VEHICLE

**MULTISTAGE ROCKET VEHICLES-(CONT.)**

... BLUE SCOUT ROCKET VEHICLE  
 ... DIAMANT LAUNCH VEHICLE  
 ... ELDO LAUNCH VEHICLE  
 ... EXOS SOUNDING ROCKET  
 ... JAGUAR ROCKET VEHICLE  
 ... JAVELIN ROCKET VEHICLE  
 ... JUNO LAUNCH VEHICLES  
 ... JUNO 1 LAUNCH VEHICLE  
 ... JUNO 2 LAUNCH VEHICLE  
 ... JUPITER C ROCKET VEHICLE  
 ... KAPPA ROCKET VEHICLES  
 ... KAPPA 8 ROCKET VEHICLE  
 ... KAPPA 9 ROCKET VEHICLE  
 ... LAMBDA ROCKET VEHICLES  
 ... LITTLE JOE 2 LAUNCH VEHICLE  
 ... NIKE ROCKET VEHICLES  
 ... NIKE-APACHE ROCKET VEHICLE  
 ... NIKE-CAJUN ROCKET VEHICLE  
 ... NIKE-HYDAC ROCKET VEHICLE  
 ... NIKE-IROQUOIS ROCKET VEHICLE  
 ... NIKE-JAVELIN ROCKET VEHICLE  
 ... NIKE-TOMAHAWK ROCKET VEHICLE  
 ... NOVA LAUNCH VEHICLES  
 ... PEGASUS AIR-LAUNCHED BOOSTER  
 ... PHOENIX SOUNDING ROCKET  
 ... RAM B LAUNCH VEHICLE  
 ... RUBIS ROCKET VEHICLE  
 ... SATURN LAUNCH VEHICLES  
 ... SATURN D LAUNCH VEHICLE  
 ... SATURN 1 LAUNCH VEHICLES  
 ... SATURN 1 SA-1 LAUNCH VEHICLE  
 ... SATURN 1 SA-2 LAUNCH VEHICLE  
 ... SATURN 1 SA-3 LAUNCH VEHICLE  
 ... SATURN 1 SA-4 LAUNCH VEHICLE  
 ... SATURN 1 SA-5 LAUNCH VEHICLE  
 ... SATURN 1 SA-6 LAUNCH VEHICLE  
 ... SATURN 1 SA-7 LAUNCH VEHICLE  
 ... SATURN 1 SA-8 LAUNCH VEHICLE  
 ... SATURN 1 SA-9 LAUNCH VEHICLE  
 ... SATURN 1 SA-10 LAUNCH VEHICLE  
 ... SATURN 1B LAUNCH VEHICLES  
 ... SATURN 2 LAUNCH VEHICLES  
 ... SATURN 5 LAUNCH VEHICLES  
 ... SCOUT LAUNCH VEHICLE  
 ... SKYLARK ROCKET VEHICLE  
 ... THOR LAUNCH VEHICLES  
 ... THOR ABLE ROCKET VEHICLE  
 ... THOR AGENA LAUNCH VEHICLE  
 ... THOR DELTA LAUNCH VEHICLE  
 ... TITAN LAUNCH VEHICLES  
 ... TITAN 3 LAUNCH VEHICLE  
 ... VANGUARD 2 LAUNCH VEHICLE  
 ... VEGA LAUNCH VEHICLE  
 ... WASP SOUNDING ROCKET  
 RT AIR LAUNCHING  
 EXPENDABLE STAGES (SPACECRAFT)  
 INTERIM STAGES (SPACECRAFT)  
 LAUNCH VEHICLES  
 MINUTEMAN ICBM  
 MULTIENGINE VEHICLES  
 NAVAHO MISSILE  
 PAYLOAD MASS RATIO  
 PERSHING MISSILE  
 PIGGYBACK SYSTEMS  
 POLARIS MISSILES  
 PROPULSIVE EFFICIENCY  
 ROCKET ENGINES  
 SS-11 MISSILE  
 STAGE SEPARATION  
 SUNBLAZER SPACE PROBE  
 TALOS MISSILE  
 TERRIER MISSILE  
 TITAN ICBM  
 TRAILBLAZER 1 REENTRY VEHICLE  
 TRAILBLAZER 2 REENTRY VEHICLE  
 UPPER STAGE ROCKET ENGINES  
 ... VEHICLES

**MULTITEMPORAL ANALYSIS**

USE TEMPORAL RESOLUTION

**MUSTANG AIRCRAFT**

USE P-51 AIRCRAFT

**MX MISSILE**

GS MISSILES  
 ... SURFACE TO SURFACE MISSILES  
 ... INTERCONTINENTAL BALLISTIC MISSILES  
 ... **MX MISSILE**  
 RT MISSILE SILOS

## MYSTERE 20 AIRCRAFT

### MYSTERE 20 AIRCRAFT

UF DASSAULT MYSTERE 20 AIRCRAFT  
 GS DASSAULT AIRCRAFT  
 . MYSTERE 20 AIRCRAFT  
 . JET AIRCRAFT  
 . TURBOFAN AIRCRAFT  
 . MYSTERE 20 AIRCRAFT  
 LIGHT AIRCRAFT  
 . MYSTERE 20 AIRCRAFT  
 MONOPLANES  
 . MYSTERE 20 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . MYSTERE 20 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . MYSTERE 20 AIRCRAFT

### MYSTERE 50 AIRCRAFT

UF DASSAULT MYSTERE 50 AIRCRAFT  
 RT DASSAULT AIRCRAFT  
 . JET AIRCRAFT  
 . LIGHT AIRCRAFT  
 . PASSENGER AIRCRAFT  
 . TRANSPORT AIRCRAFT  
 . TURBOFAN AIRCRAFT

## N

### N-156 AIRCRAFT

USE F-5 AIRCRAFT

### NA-300 AIRCRAFT

USE OV-10 AIRCRAFT

### NACELLES

RT AERODYNAMIC CONFIGURATIONS  
 AIR INTAKES  
 AIRFRAMES  
 COWLINGS  
 DUCTED BODIES  
 ENGINE INLETS  
 EXTERNAL STORE SEPARATION  
 EXTERNAL STORES  
 EXTERNAL TANKS  
 FAIRINGS  
 HOUSINGS  
 NOSE INLETS  
 PERFORATED SHELLS  
 PODS (EXTERNAL STORES)  
 PROTUBERANCES  
 SHELLS (STRUCTURAL FORMS)  
 WING-FUSELAGE STORES

### NAMC AIRCRAFT

USE NIHON AIRCRAFT

### MAP-OF-THE-EARTH NAVIGATION

UF NOE NAVIGATION  
 GS NAVIGATION  
 . AIR NAVIGATION  
 . . . . . MAP-OF-THE-EARTH NAVIGATION  
 RT HELICOPTERS  
 IMAGE PROCESSING  
 LOW ALTITUDE  
 NIGHT FLIGHTS (AIRCRAFT)  
 NIGHT VISION  
 TARGET RECOGNITION  
 TERRAIN ANALYSIS  
 TERRAIN FOLLOWING AIRCRAFT

### NATIONAL AEROSPACE PLANE PROGRAM

GS PROGRAMS  
 . NASA PROGRAMS  
 . . . . . NATIONAL AEROSPACE PLANE PROGRAM  
 RT AEROSPACE PLANES  
 HYPERSONIC VEHICLES  
 TRANSATMOSPHERIC VEHICLES  
 X-30 VEHICLE

### NATIONAL AIRSPACE SYSTEM

RT AIR TRAFFIC CONTROL  
 AIRCRAFT SAFETY  
 AIRPORTS  
 AIRSPACE  
 NATIONAL AIRSPACE UTILIZATION SYSTEM  
 NATIONAL AVIATION SYSTEM

### NATIONAL AIRSPACE UTILIZATION SYSTEM

RT AIR LAW  
 AIR NAVIGATION

### NATIONAL AIRSPACE UTILIZATION-(CONT.)

AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 AIRCRAFT APPROACH SPACING  
 AIRSPACE  
 COLLISION AVOIDANCE  
 FLIGHT PATHS  
 FLIGHT PLANS  
 FLIGHT RULES  
 NATIONAL AIRSPACE SYSTEM  
 ∞ SYSTEMS

### NATIONAL AVIATION SYSTEM

RT AIR TRAFFIC  
 AIR TRAFFIC CONTROL  
 AIR TRANSPORTATION  
 AIRCRAFT APPROACH SPACING  
 FLIGHT RULES  
 LANDING AIDS  
 NATIONAL AIRSPACE SYSTEM  
 ∞ SYSTEMS  
 TRAFFIC CONTROL

### NATIONAL LAUNCH VEHICLE PROGRAM

GS PROGRAMS  
 . NASA PROGRAMS  
 . . NASA SPACE PROGRAMS  
 . . . . . NATIONAL LAUNCH VEHICLE PROGRAM  
 . SPACE PROGRAMS  
 . . NASA SPACE PROGRAMS  
 . . . . . NATIONAL LAUNCH VEHICLE PROGRAM  
 RT LAUNCH VEHICLES  
 LAUNCHERS  
 LAUNCHING  
 LAUNCHING SITES

### NAVAGO MISSILE

GS MISSILES  
 . RAMJET MISSILES  
 . . NAVAGO MISSILE  
 . . SURFACE TO SURFACE MISSILES  
 . . CRUISE MISSILES  
 . . . . . NAVAGO MISSILE  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 MULTISTAGE ROCKET VEHICLES  
 RAMJET ENGINES

### NAVIER-STOKES EQUATION

GS EQUATIONS OF MOTION  
 . NAVIER-STOKES EQUATION  
 FLOW EQUATIONS  
 . NAVIER-STOKES EQUATION  
 RT BURGER EQUATION  
 COMPUTATIONAL FLUID DYNAMICS  
 ∞ EQUATIONS  
 FLOW THEORY  
 INCOMPRESSIBLE FLOW  
 INCOMPRESSIBLE FLUIDS  
 MILNE-THOMSON METHOD  
 NEWTONIAN FLUIDS  
 OSEEN APPROXIMATION  
 REYNOLDS EQUATION  
 REYNOLDS STRESS  
 VISCOUS FLOW  
 VISCOUS FLUIDS

### NAVIGATION

GS NAVIGATION  
 . AIR NAVIGATION  
 . . ALL-WEATHER AIR NAVIGATION  
 . . AREA NAVIGATION  
 . . . . . MAP-OF-THE-EARTH NAVIGATION  
 . . CELESTIAL NAVIGATION  
 . . . . . ASTROGUIDE NAVIGATION SYSTEM  
 . . . . . ASTRONAVIGATION  
 . . DEAD RECKONING  
 . . DIGITAL NAVIGATION  
 . . DOPPLER NAVIGATION  
 . . HYBRID NAVIGATION SYSTEMS  
 . . INERTIAL NAVIGATION  
 . . . . . ASTROGUIDE NAVIGATION SYSTEM  
 . . . . . GIMBALLLESS INERTIAL NAVIGATION  
 . . . . . OMEGA NAVIGATION SYSTEM  
 . . . . . POLAR NAVIGATION  
 . . . . . RADAR NAVIGATION  
 . . . . . RADIO NAVIGATION  
 . . . . . HYPERBOLIC NAVIGATION  
 . . . . . DECCA NAVIGATION  
 . . . . . LORAN NAVIGATION SYSTEM  
 . . . . . LORAN  
 . . . . . LORAN C  
 . . . . . LORAN D  
 . . . . . SHORAN

### NAVIGATION-(CONT.)

. . . . . TACAN  
 . . . . . VHF OMNIRANGE NAVIGATION  
 . . . . . SPACE NAVIGATION  
 . . . . . INTERPLANETARY NAVIGATION  
 . . . . . SURFACE NAVIGATION  
 RT AUTOMATIC FLIGHT CONTROL  
 AZIMUTH  
 BAY ICE  
 DECLINATION  
 DISTANCE MEASURING EQUIPMENT  
 ∞ FIXING  
 FLIGHT CONTROL  
 FLIGHT PATHS  
 GLOBAL POSITIONING SYSTEM  
 GUIDANCE (MOTION)  
 GYROSCOPIC COUPLING  
 HOMING DEVICES  
 LATITUDE MEASUREMENT  
 LOCOMOTION  
 LONGITUDE MEASUREMENT  
 ORBITAL POSITION ESTIMATION  
 PLOTTING  
 POSITION (LOCATION)  
 POSITION ERRORS  
 POSITIONING  
 STAR TRACKERS  
 STATIONKEEPING  
 ∞ SYSTEMS  
 TRIANGULATION

### NAVIGATION AIDS

GS NAVIGATION AIDS  
 . BEACONS  
 . . AIRPORT BEACONS  
 . . . . . DISCRETE ADDRESS BEACON SYSTEM  
 . . . . . RADAR BEACONS  
 . . . . . DISCRETE ADDRESS BEACON SYSTEM  
 . . . . . RADIO BEACONS  
 . . . . . OMNIDIRECTIONAL RADIO RANGES  
 . . . . . SELF CALIBRATING OMNIRANGE  
 . . . . . RADIO DIRECTION FINDERS  
 . . . . . LIGHT AIRBORNE MULTIPURPOSE SYSTEM  
 . . . . . MICROWAVE SCANNING BEAM LANDING SYSTEM  
 . . . . . NAVIGATION INSTRUMENTS  
 . . . . . ATTITUDE INDICATORS  
 . . . . . GYRO HORIZONS  
 . . . . . COMPASSES  
 . . . . . GYROCOMPASSES  
 . . . . . MAGNETIC COMPASSES  
 . . . . . SOLAR COMPASSES  
 . . . . . RADIO DIRECTION FINDERS  
 . . . . . TERCOM  
 RT ∞ AIDS  
 AIR NAVIGATION  
 AIR TRAFFIC CONTROL  
 AIRCRAFT EQUIPMENT  
 AIRCRAFT INSTRUMENTS  
 AIRCRAFT SAFETY  
 AIRPORTS  
 ALL-WEATHER AIR NAVIGATION  
 ALTIMETERS  
 APPROACH INDICATORS  
 AUTOMATIC FLIGHT CONTROL  
 AUTOMATIC PILOTS  
 AUTOMATIC TRAFFIC ADVISORY AND RESOLUTION  
 AUTONOMOUS NAVIGATION  
 BUOYS  
 CHARTS  
 DECCA NAVIGATION  
 DISPLAY DEVICES  
 DISTANCE MEASURING EQUIPMENT  
 ECHO SOUNDING  
 FLIGHT CONTROL  
 FLIGHT MANAGEMENT SYSTEMS  
 FLIGHT PATHS  
 GYROSTABILIZERS  
 HEAD-UP DISPLAYS  
 HELIPOINTS  
 HOMING DEVICES  
 HYBRID NAVIGATION SYSTEMS  
 INERTIAL NAVIGATION  
 KALMAN FILTERS  
 LANDING AIDS  
 LASER RANGE FINDERS  
 LORAN NAVIGATION SYSTEM  
 LORAN  
 LORAN C  
 LORAN D  
 MAPS  
 ∞ MARS

# NAVIGATION AIDS-(CONT.)

MILITARY AIR FACILITIES  
NAUTICAL CHARTS  
PLOTTERS  
POSITION INDICATORS  
RADIO NAVIGATION  
RANGE FINDERS  
REDUCED ORDER FILTERS  
REFERENCE STARS  
SEXTANTS  
SHORAN  
SOLAR SENSORS  
SONAR  
STAR TRACKERS  
SURFACE NAVIGATION  
TACAN  
VHF OMNIRANGE NAVIGATION  
WEATHER

# NAVIGATION INSTRUMENTS

GS NAVIGATION AIDS  
    . NAVIGATION INSTRUMENTS  
    . . ATTITUDE INDICATORS  
    . . . GYRO HORIZONS  
    . . . COMPASSES  
    . . . GYROCOMPASSES  
    . . . MAGNETIC COMPASSES  
    . . . SOLAR COMPASSES  
    . . RADIO DIRECTION FINDERS  
RT AIRCRAFT EQUIPMENT  
AIRCRAFT INSTRUMENTS  
ALTIMETERS  
AUTONOMOUS NAVIGATION  
BORESIGHT ERROR  
FLIGHT CONTROL  
FLIGHT INSTRUMENTS  
GIMBALLESS INERTIAL NAVIGATION  
HORIZON SCANNERS  
HYBRID NAVIGATION SYSTEMS  
INERTIAL PLATFORMS  
    . INSTRUMENTS  
    . KALMAN-SCHMIDT FILTERING  
    . LASER RANGE FINDERS  
    . LIGHT AIRBORNE MULTIPURPOSE  
    . SYSTEM  
    . LORAC NAVIGATION SYSTEM  
    . LORAN  
    . MEASURING INSTRUMENTS  
    . POSITION INDICATORS  
    . RADAR  
    . SOLAR SENSORS  
    . STAR TRACKERS  
    . TERCOM

# NAVIGATION SATELLITES

GS ARTIFICIAL SATELLITES  
    . NAVIGATION SATELLITES  
    . . AEROSAT SATELLITES  
    . . EXPLORER 22 SATELLITE  
    . . NAVIGATION TECHNOLOGY  
    . . SATELLITES  
    . . NAVSTAR SATELLITES  
    . . NOVA SATELLITES  
    . . REFSAT  
    . . TRANSIT ATTITUDE CONTROL  
    . . SATELLITE  
    . . TRANSIT SATELLITES  
RT ACTIVE SATELLITES  
ATS  
GEODETIC SATELLITES  
LOCATES SYSTEM  
METEOROLOGICAL SATELLITES  
MILITARY SPACECRAFT  
NAUTICAL CHARTS  
PASSIVE SATELLITES  
SATELLITE NAVIGATION SYSTEMS  
SATELLITE NETWORKS  
SYNCHRONOUS SATELLITES  
TRANSIT NAVIGATION SYSTEM

# NAVIGATORS

GS PERSONNEL  
    . NAVIGATORS  
RT FLIGHT CREWS  
FLYING PERSONNEL

# NAVION AIRCRAFT

GS NAVION AIRCRAFT  
    . G-1 AIRCRAFT  
RT . AIRCRAFT

# NAVION G-1 AIRCRAFT

USE G-1 AIRCRAFT

# NAVION RANGEMASTER AIRCRAFT

USE G-1 AIRCRAFT

# NAVSTAR SATELLITES

GS ARTIFICIAL SATELLITES  
    . NAVIGATION SATELLITES  
    . . NAVSTAR SATELLITES  
RT ACTIVE SATELLITES  
ATS  
GEODETIC SATELLITES  
NAVIGATION TECHNOLOGY SATELLITES  
REFSAT  
SATELLITE NETWORKS

# NC-130 AIRCRAFT

USE C-130 AIRCRAFT

# NEAR WAKES

GS WAKES  
    . NEAR WAKES

# NEUTRAL BUOYANCY SIMULATION

GS ENVIRONMENTAL TESTS  
    . UNDERWATER TESTS  
    . . NEUTRAL BUOYANCY SIMULATION  
    . SIMULATION  
    . ENVIRONMENT SIMULATION  
    . . SPACE ENVIRONMENT SIMULATION  
    . . . WEIGHTLESSNESS SIMULATION  
    . . . . NEUTRAL BUOYANCY  
    . . . . SIMULATION  
RT BUOYANCY  
SPACE SIMULATORS  
WEIGHTLESSNESS

# NEUTRAL CURRENTS

RT CURRENT DISTRIBUTION  
GRAVITATIONAL COLLAPSE  
NEUTRAL PARTICLES  
NEUTRINOS  
NEUTRON STARS  
PARTICLE INTERACTIONS  
STELLAR EVOLUTION

# NEUTRAL GASES

GS GASES  
    . NEUTRAL GASES  
RT COSMIC GASES  
H I REGIONS  
HYDROGEN CLOUDS  
INTERPLANETARY GAS  
INTERSTELLAR GAS  
IONIZED GASES  
NEUTRAL ATMOSPHERES  
NEUTRAL ATOMS  
PLASMAS (PHYSICS)

# NEWTON METHODS

GS ANALYSIS (MATHEMATICS)  
    . NUMERICAL ANALYSIS  
    . . APPROXIMATION  
    . . . NEWTON METHODS  
    . . . . NEWTON-RAPHSON METHOD  
    . . . . ITERATION  
    . . . . NEWTON METHODS  
RT ITERATIVE SOLUTION  
PROBLEM SOLVING  
ROOTS OF EQUATIONS

# NEWTON PRESSURE LAW

GS LAWS  
    . NEWTON PRESSURE LAW  
RT COMPRESSIBLE FLOW  
LAMINAR FLOW  
NEWTONIAN FLUIDS  
PRANDTL-MEYER EXPANSION  
PRESSURE  
PRESSURE DISTRIBUTION

# NEWTON-BUSEMANN LAW

GS LAWS  
    . NEWTON-BUSEMANN LAW

# NEWTON-RAPHSON METHOD

GS ANALYSIS (MATHEMATICS)  
    . NUMERICAL ANALYSIS  
    . . APPROXIMATION  
    . . . NEWTON METHODS  
    . . . . NEWTON-RAPHSON METHOD  
RT . METHODOLOGY

# NEWTONIAN FLUIDS

RT ANISOTROPIC FLUIDS  
    . FLUIDS

# NEWTONIAN FLUIDS-(CONT.)

NAVIER-STOKES EQUATION  
NEWTON  
NEWTON PRESSURE LAW  
NEWTON THEORY  
NONNEWTONIAN FLUIDS  
STRESS-STRAIN-TIME RELATIONS  
VISCOUS FLUIDS

# NIGHT

RT DARKENING  
DARKNESS  
DAYTIME  
DIURNAL VARIATIONS  
EVENING  
SHADOWS  
SKY BRIGHTNESS  
TWILIGHT GLOW

# NIGHT FLIGHTS (AIRCRAFT)

RT . AIRCRAFT  
APPROACH CONTROL  
BLIND LANDING  
DARKNESS  
FLIGHT INSTRUMENTS  
INSTRUMENT APPROACH  
INSTRUMENT LANDING SYSTEMS  
NAP-OF-THE-EARTH NAVIGATION  
RADAR  
RADIO BEACONS  
VISIBILITY

# NIHON AIRCRAFT

UF NAMC AIRCRAFT  
GS NIHON AIRCRAFT  
    . YS-11 AIRCRAFT  
RT . AIRCRAFT

# NIHON YS-11 AIRCRAFT

USE YS-11 AIRCRAFT

# NIKE BOOSTER ROCKET ENGINES

GS ENGINES  
    . ROCKET ENGINES  
    . . BOOSTER ROCKET ENGINES  
    . . . NIKE BOOSTER ROCKET ENGINES  
    . . . SOLID PROPELLANT ROCKET  
    . . . ENGINES  
    . . . . NIKE BOOSTER ROCKET ENGINES  
RT . NIKE ROCKETS

# NIKE MISSILES

GS MISSILES  
    . SURFACE TO AIR MISSILES  
    . . NIKE MISSILES  
    . . . NIKE-AJAX MISSILE  
    . . . NIKE-HERCULES MISSILE  
    . . . NIKE-ZEUS MISSILE  
RT ANTI-AIRCRAFT MISSILES  
ANTIMISSILE MISSILES  
    . NIKE ROCKETS  
SENTINEL SYSTEM

# NIKE PROJECT

GS PROGRAMS  
    . PROJECTS  
    . . NIKE PROJECT  
RT . NIKE ROCKETS

# NIKE ROCKET VEHICLES

GS ROCKET VEHICLES  
    . MULTISTAGE ROCKET VEHICLES  
    . . NIKE ROCKET VEHICLES  
    . . . NIKE-APACHE ROCKET VEHICLE  
    . . . NIKE-CAJUN ROCKET VEHICLE  
    . . . NIKE-HYDAC ROCKET VEHICLE  
    . . . NIKE-IROQUOIS ROCKET VEHICLE  
    . . . NIKE-JAVELIN ROCKET VEHICLE  
    . . . NIKE-TOMAHAWK ROCKET VEHICLE  
RT . NIKE ROCKETS  
    . VEHICLES

# NIKE ROCKETS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)  
RT NIKE BOOSTER ROCKET ENGINES  
NIKE MISSILES  
NIKE PROJECT  
NIKE ROCKET VEHICLES

# NIKE X SYSTEMS

GS WEAPON SYSTEMS  
    . MISSILE SYSTEMS

## NIKE-AJAX MISSILE

### NIKE X SYSTEMS-(CONT.)

RT . . NIKE X SYSTEMS  
ANTIMISSILE MISSILES  
MISSILES  
SURFACE TO AIR MISSILES  
∞ SYSTEMS

### NIKE-AJAX MISSILE

GS MISSILES  
. ANTI-AIRCRAFT MISSILES  
. . NIKE-AJAX MISSILE  
. SURFACE TO AIR MISSILES  
. NIKE MISSILES  
. . NIKE-AJAX MISSILE  
RT ARGO ROCKET VEHICLES  
EXOS SOUNDING ROCKET  
LIQUID PROPELLANT ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
TRAILBLAZER 1 REENTRY VEHICLE

### NIKE-APACHE ROCKET VEHICLE

GS ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. NIKE ROCKET VEHICLES  
. . NIKE-APACHE ROCKET VEHICLE  
RT SOLID PROPELLANT ROCKET ENGINES

### NIKE-ASP ROCKET

USE ASP ROCKET VEHICLE

### NIKE-CAJUN ROCKET VEHICLE

GS ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. NIKE ROCKET VEHICLES  
. . NIKE-CAJUN ROCKET VEHICLE  
RT CAJUN ROCKET VEHICLE  
SOLID PROPELLANT ROCKET ENGINES

### NIKE-HERCULES MISSILE

GS MISSILES  
. ANTI-AIRCRAFT MISSILES  
. . NIKE-HERCULES MISSILE  
. SURFACE TO AIR MISSILES  
. NIKE MISSILES  
. . NIKE-HERCULES MISSILE  
RT SOLID PROPELLANT ROCKET ENGINES

### NIKE-HYDAC ROCKET VEHICLE

GS ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. NIKE ROCKET VEHICLES  
. . NIKE-HYDAC ROCKET VEHICLE  
RT ∞ VEHICLES

### NIKE-IROQUOIS ROCKET VEHICLE

GS ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. NIKE ROCKET VEHICLES  
. . NIKE-IROQUOIS ROCKET VEHICLE  
RT ∞ VEHICLES

### NIKE-JAVELIN ROCKET VEHICLE

GS ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. NIKE ROCKET VEHICLES  
. . NIKE-JAVELIN ROCKET VEHICLE  
RT SOLID PROPELLANT ROCKET ENGINES  
SOUNDING ROCKETS

### NIKE-TOMAHAWK ROCKET VEHICLE

GS ROCKET VEHICLES  
. MULTISTAGE ROCKET VEHICLES  
. NIKE ROCKET VEHICLES  
. . NIKE-TOMAHAWK ROCKET  
VEHICLE  
RT SOLID PROPELLANT ROCKET ENGINES

### NIKE-ZEUS MISSILE

UF ZEUS MISSILE  
GS MISSILES  
. ANTIMISSILE MISSILES  
. . NIKE-ZEUS MISSILE  
. SURFACE TO AIR MISSILES  
. NIKE MISSILES  
. . NIKE-ZEUS MISSILE  
RT SOLID PROPELLANT ROCKET ENGINES  
SPARTAN MISSILE  
SPRINT MISSILE

### NITRAMINE PROPELLANTS

GS PROPELLANTS  
. ROCKET PROPELLANTS  
. . NITRAMINE PROPELLANTS  
. SOLID PROPELLANTS

### NITRAMINE PROPELLANTS-(CONT.)

RT . . NITRAMINE PROPELLANTS  
OXIDIZERS

### NOE NAVIGATION

USE NAP-OF-THE-EARTH NAVIGATION

### NOISE ATTENUATION

USE NOISE REDUCTION

### NOISE ELIMINATION

USE NOISE REDUCTION

### NOISE INJURIES

GS INJURIES  
. NOISE INJURIES  
RT EAR PROTECTORS

### NOISE INTENSITY

RT AIRCRAFT NOISE  
AUDITORY STIMULI  
EFFECTIVE PERCEIVED NOISE LEVELS  
ELECTROMAGNETIC NOISE  
∞ INTENSITY  
PROPELLER NOISE  
PSYCHOACOUSTICS  
SIRENS  
SOUND INTENSITY

### NOISE MEASUREMENT

GS ACOUSTIC MEASUREMENT  
. NOISE MEASUREMENT  
RT AERODYNAMIC NOISE  
AIRCRAFT NOISE  
BACKGROUND NOISE  
JET AIRCRAFT NOISE  
LOUDNESS  
∞ MEASUREMENT  
NOISE (SOUND)  
PROPELLER NOISE  
SOUND INTENSITY

### NOISE POLLUTION

GS POLLUTION  
. NOISE POLLUTION  
RT ACOUSTICS  
AUDIO FREQUENCIES  
ENVIRONMENT EFFECTS  
ENVIRONMENT POLLUTION  
ENVIRONMENTAL QUALITY  
HUMAN REACTIONS  
HUMAN TOLERANCES  
PHYSIOLOGICAL EFFECTS  
PHYSIOLOGICAL FACTORS  
SOUND WAVES

### NOISE PREDICTION (AIRCRAFT)

UF AIRCRAFT NOISE PREDICTION  
GS PREDICTIONS  
. NOISE PREDICTION (AIRCRAFT)  
RT AEROACOUSTICS  
∞ AIRCRAFT  
AIRCRAFT NOISE  
ESTIMATES  
FORECASTING  
PROPELLER NOISE  
SOUND WAVES

### NOISE REDUCTION

UF NOISE ATTENUATION  
NOISE ELIMINATION  
NOISE SUPPRESSORS  
RT ACOUSTIC ATTENUATION  
ACOUSTIC DUCTS  
ACOUSTIC RETROFITTING  
ACOUSTICS  
AERODYNAMIC NOISE  
AIRCRAFT NOISE  
COAXIAL NOZZLES  
DELAYED FLAP APPROACH  
EAR PROTECTORS  
ECHO SUPPRESSORS  
EFFECTIVE PERCEIVED NOISE LEVELS  
ELECTRICAL GROUNDING  
ELECTROMAGNETIC INTERFERENCE  
ELECTROMAGNETIC NOISE  
FLIGHT RULES  
GRAZING FLOW  
HELMHOLTZ RESONATORS  
INTERFERENCE IMMUNITY  
ISOLATORS  
JET AIRCRAFT NOISE  
LOUDNESS  
MUFFLERS

### NOISE REDUCTION-(CONT.)

PROPELLER NOISE  
QUIET ENGINE PROGRAM  
∞ REDUCTION  
SHOCK WAVE ATTENUATION  
SILENCE  
SQUELCH CIRCUITS  
SUPPRESSORS  
SYNCHROPHASING  
VIBRATION ISOLATORS

### NOISE SPECTRA

GS SPECTRA  
. NOISE SPECTRA  
RT ACOUSTIC FREQUENCIES  
BACKGROUND NOISE  
CHANNEL NOISE  
ELECTROMAGNETIC COMPATIBILITY  
ELECTROMAGNETIC NOISE  
ELECTROMAGNETIC SPECTRA  
NOISE (SOUND)  
RADIATION SPECTRA  
RANDOM NOISE  
RANDOM SIGNALS  
SHOCK SPECTRA  
SIGNAL TO NOISE RATIOS  
WHITE NOISE

### NOISE SUPPRESSORS

USE NOISE REDUCTION

### NOISE TEMPERATURE

GS TEMPERATURE  
. NOISE TEMPERATURE  
RT ELECTROMAGNETIC NOISE  
ELECTRON ENERGY  
ELECTRON STATES  
TEMPERATURE MEASUREMENT  
THERMAL NOISE

### NOMAD LAUNCH VEHICLE

GS LAUNCH VEHICLES  
. NOMAD LAUNCH VEHICLE  
ROCKET VEHICLES  
. SINGLE STAGE ROCKET VEHICLES  
. . NOMAD LAUNCH VEHICLE  
RT ATLAS LAUNCH VEHICLES  
LIQUID PROPELLANT ROCKET ENGINES

### NOMINAL VALUES

USE APPROXIMATION

### NOMOGRAMS

USE NOMOGRAPHS

### NOMOGRAPHS

UF ISOPLETHS  
NOMOGRAMS  
GS ANALYSIS (MATHEMATICS)  
. NUMERICAL ANALYSIS  
. . NOMOGRAPHS  
RT CHARTS  
GRAPHS (CHARTS)

### NONADIABATIC CONDITIONS

GS CONDITIONS  
. NONADIABATIC CONDITIONS  
RT ENERGY TRANSFER  
HEAT TRANSFER  
NONISOTHERMAL PROCESSES  
THERMODYNAMICS

### NONADIABATIC PROCESSES

USE HEAT TRANSFER

### NONADIABATIC THEORY

RT ADIABATIC EQUATIONS  
CHARGED PARTICLES  
ENERGY DISSIPATION  
IONIZATION CROSS SECTIONS  
MAGNETIC DISTURBANCES  
∞ THEORIES  
WAVE PROPAGATION

### NONCONDENSABLE GASES

GS GASES  
. NONCONDENSABLE GASES  
RT CRITICAL TEMPERATURE  
GAS-LIQUID INTERACTIONS  
LIQUEFACTION

### NONDESTRUCTIVE TESTS

UF FLAW DETECTION  
GS NONDESTRUCTIVE TESTS



**NONDESTRUCTIVE TESTS-(CONT.)**

RT . NEUTRON RADIOGRAPHY  
ACOUSTIC EMISSION  
ADHESION TESTS  
CHEMICAL TESTS  
DESTRUCTIVE TESTS  
ELECTRONIC EQUIPMENT TESTS  
ENGINE TESTS  
HARDNESS TESTS  
HIGH TEMPERATURE TESTS  
INSPECTION  
LOAD TESTS  
LOW TEMPERATURE TESTS  
∞ MATERIALS TESTS  
PHOTOACOUSTIC MICROSCOPY  
QUALITY CONTROL  
RADIOGRAPHY  
RELIABILITY  
SH WAVES  
STATIC TESTS  
∞ TESTS  
THERMOGRAPHY  
TOLERANCES (MECHANICS)  
ULTRASONIC FLAW DETECTION  
ULTRASONIC SPECTROSCOPY  
ULTRASONIC TESTS  
X RAY INSPECTION

**NONEQUILIBRIUM DRAG**  
USE FRICTION DRAG

**NONEQUILIBRIUM FLOW**  
GS FLUID FLOW  
. GAS FLOW  
. . . NONEQUILIBRIUM FLOW  
RT EQUILIBRIUM FLOW  
∞ FLUIDS  
HEAT TRANSMISSION  
OSCILLATING FLOW  
QUASI-STEADY STATES  
UNSTEADY FLOW

**NONFLAMMABLE MATERIALS**  
RT ASBESTOS  
FIREPROOFING  
∞ INORGANIC MATERIALS  
KEVLAR (TRADEMARK)  
∞ MATERIALS  
OXIDES  
REFRACTORY MATERIALS

**NONISOTHERMAL PROCESSES**  
RT ENERGY TRANSFER  
HEAT TRANSFER  
NONADIABATIC CONDITIONS  
PRESSURE EFFECTS  
∞ PROCESSES  
TEMPERATURE GRADIENTS  
THERMODYNAMICS

**NONISOTROPY**  
USE ANISOTROPY

**NONLIFTING VEHICLES**  
USE BALLISTIC VEHICLES

**NONLINEAR EQUATIONS**  
GS ALGEBRA  
. . . NONLINEAR EQUATIONS  
. . . CUBIC EQUATIONS  
. . . DUFFING DIFFERENTIAL EQUATION  
. . . MONGE-AMPERE EQUATION  
. . . NONLINEAR EVOLUTION EQUATIONS  
. . . QUADRATIC EQUATIONS  
. . . QUARTIC EQUATIONS  
ANALYSIS (MATHEMATICS)  
. . . REAL VARIABLES  
. . . NONLINEAR EQUATIONS  
. . . CUBIC EQUATIONS  
. . . DUFFING DIFFERENTIAL EQUATION  
. . . MONGE-AMPERE EQUATION  
. . . NONLINEAR EVOLUTION EQUATIONS  
. . . QUADRATIC EQUATIONS  
. . . QUARTIC EQUATIONS  
RT BORN-INFELD THEORY  
DIFFERENTIAL EQUATIONS  
∞ EQUATIONS  
FIELD THEORY (ALGEBRA)  
INTEGRAL EQUATIONS  
POLYNOMIALS  
ROOTS OF EQUATIONS

**NONLINEAR EVOLUTION EQUATIONS**  
GS ALGEBRA

**NONLINEAR EVOLUTION EQUATIONS-(CONT.)**

. . . NONLINEAR EQUATIONS  
. . . NONLINEAR EVOLUTION EQUATIONS  
ANALYSIS (MATHEMATICS)  
. . . REAL VARIABLES  
. . . NONLINEAR EQUATIONS  
. . . . . NONLINEAR EVOLUTION EQUATIONS  
RT DIFFERENCE EQUATIONS  
∞ EQUATIONS

**NONNEWTONIAN FLOW**  
GS FLUID FLOW  
. . . NONNEWTONIAN FLOW  
RT LIQUID FLOW  
STEADY FLOW  
THIXOTROPY  
UNSTEADY FLOW  
VISCOELASTICITY  
VISCOPLASTICITY

**NONOHMIC EFFECT**  
RT BARRIER LAYERS  
CONTACT RESISTANCE  
∞ EFFECTS  
SPACE CHARGE

**NONUNIFORM FLOW**  
GS FLUID FLOW  
. . . NONUNIFORM FLOW  
RT FLOW CHARACTERISTICS  
GAS FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW

**NONVISCIOUS FLOW**  
USE INVISCID FLOW

**NORD AIRCRAFT**  
GS . NORD AIRCRAFT  
. C-160 AIRCRAFT  
. MH-262 AIRCRAFT  
. NORD 1500 AIRCRAFT  
RT ∞ AIRCRAFT

**NORD 262 AIRCRAFT**  
USE MH-262 AIRCRAFT

**NORMAL SHOCK WAVES**  
GS ELASTIC WAVES  
. SHOCK WAVES  
. . . NORMAL SHOCK WAVES  
RT LONGITUDINAL WAVES  
MAGNETOHYDRODYNAMIC WAVES  
OBLIQUE SHOCK WAVES  
PLANE WAVES  
SHOCK LAYERS

**NORTH AMERICAN AIRCRAFT**  
GS . NORTH AMERICAN AIRCRAFT

. A-2 AIRCRAFT  
. A-5 AIRCRAFT  
. B-1 AIRCRAFT  
. B-70 AIRCRAFT  
. F-86 AIRCRAFT  
. F-100 AIRCRAFT  
. OV-10 AIRCRAFT  
. P-51 AIRCRAFT  
. T-2 AIRCRAFT  
. T-28 AIRCRAFT  
. T-39 AIRCRAFT  
. X-15 AIRCRAFT  
RT ∞ AIRCRAFT

**NORTHROP AIRCRAFT**  
GS . NORTHROP AIRCRAFT  
. A-9 AIRCRAFT  
. F-5 AIRCRAFT  
. F-18 AIRCRAFT  
. F-20 AIRCRAFT  
. F-89 AIRCRAFT  
. T-38 AIRCRAFT  
. X-21 AIRCRAFT  
. X-21A AIRCRAFT  
RT ∞ AIRCRAFT

∞ NOSE  
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  
RT NOSE (ANATOMY)  
NOSES (FOREBODIES)

**NOSE CAPS**  
USE NOSE CONES

**NOSE CONES**  
UF NOSE CAPS  
GS CONES  
. . . NOSE CONES  
. . . ABLATIVE NOSE CONES  
. . . ROCKET NOSE CONES  
FOREBODIES  
. . . NOSES (FOREBODIES)  
. . . NOSE CONES  
. . . ABLATIVE NOSE CONES  
. . . ROCKET NOSE CONES  
RT ABLATIVE MATERIALS  
BLUNT BODIES  
∞ CAPS  
CIRCULAR CONES  
HALF CONES  
MISSILE COMPONENTS  
OGIVES  
REENTRY SHIELDING  
REENTRY VEHICLES  
SPACECRAFT COMPONENTS  
SPACECRAFT SHIELDING  
SPHERICAL CAPS  
WARHEADS

**NOSE FINIS**  
GS FINS  
. . . NOSE FINIS  
RT CONTROL SURFACES  
FINNED BODIES  
NOSES (FOREBODIES)  
VANES

**NOSE INLETS**  
GS INTAKE SYSTEMS  
. . . NOSE INLETS  
RT AIR INTAKES  
ANNULAR DUCTS  
BYPASS RATIO  
DUCTED BODIES  
DUCTS  
HYPERSONIC INLETS  
INLET AIRFRAME CONFIGURATIONS  
NACELLES  
NOSES (FOREBODIES)  
SCOOPS  
SIDE INLETS  
SUPERSONIC INLETS  
∞ WATER INTAKES

**NOSE TIPS**  
GS TIPS  
. . . NOSE TIPS  
RT AERODYNAMIC CONFIGURATIONS  
AIRFOIL PROFILES  
NOSES (FOREBODIES)

**NOSE WHEELS**  
GS WHEELS  
. VEHICLE WHEELS  
. . . NOSE WHEELS  
RT BRAKES (FOR ARRESTING MOTION)  
LANDING GEAR

**NOSES (FOREBODIES)**  
GS FOREBODIES  
. . . NOSES (FOREBODIES)  
. . . NOSE CONES  
. . . ABLATIVE NOSE CONES  
. . . ROCKET NOSE CONES  
RT AIRCRAFT STRUCTURES  
∞ NOSE  
NOSE FINIS  
NOSE INLETS  
NOSE TIPS

**NOVA LAUNCH VEHICLES**  
GS LAUNCH VEHICLES  
. . . NOVA LAUNCH VEHICLES  
ROCKET VEHICLES  
. . . MULTISTAGE ROCKET VEHICLES  
. . . NOVA LAUNCH VEHICLES  
RT F-1 ROCKET ENGINE  
J-2 ENGINE  
LIQUID PROPELLANT ROCKET ENGINES  
M-1 ENGINE  
∞ NOVA  
∞ VEHICLES

**NOZZLE COEFFICIENT**  
USE NOZZLE FLOW

## NOZZLE DESIGN

### NOZZLE DESIGN

- RT ∞ DESIGN
- ENGINE DESIGN
- ∞ NOZZLES

### NOZZLE EFFICIENCY

- GS EFFICIENCY
- . NOZZLE EFFICIENCY
- RT ∞ NOZZLES
- POWER EFFICIENCY
- PROPULSIVE EFFICIENCY
- THERMODYNAMIC EFFICIENCY

### NOZZLE FLOW

- UF NOZZLE COEFFICIENT
- GS FLUID FLOW
- . NOZZLE FLOW
- RT AEROTHERMOCHEMISTRY
- ANNULAR FLOW
- CORNER FLOW
- DISCHARGE COEFFICIENT
- EXHAUST GASES
- EXHAUST NOZZLES
- FISSIONABLE MATERIALS
- FLOW GEOMETRY
- FLUID INJECTION
- INJECTORS
- JET FLOW
- OUTLET FLOW
- PNEUMATIC PROBES
- SUPERSONIC JET FLOW
- TRANSONIC FLOW

### NOZZLE GEOMETRY

- GS GEOMETRY
- . NOZZLE GEOMETRY
- RT COAXIAL NOZZLES
- CONICAL NOZZLES
- CONVERGENT NOZZLES
- CONVERGENT-DIVERGENT NOZZLES
- DISCHARGE COEFFICIENT
- DIVERGENT NOZZLES
- MASS FLOW FACTORS
- ∞ NOZZLES
- PIPE NOZZLES
- PLUG NOZZLES
- SHROUDED NOZZLES
- SPIKE NOZZLES
- THROATS

### NOZZLE INSERTS

- GS INSERTS
- . NOZZLE INSERTS
- RT ABLATIVE MATERIALS
- CHOKES
- CONICAL NOZZLES
- CONVERGENT-DIVERGENT NOZZLES
- EXHAUST NOZZLES
- ∞ NOZZLES
- ROCKET NOZZLES
- THROATS

### NOZZLE WALLS

- GS WALLS
- . NOZZLE WALLS
- RT CONICAL NOZZLES
- CONVERGENT NOZZLES
- DIVERGENT NOZZLES
- JET AMPLIFIERS
- ∞ NOZZLES
- REFRACTORY MATERIALS
- SHROUDED NOZZLES
- THROATS

### ∞ NOZZLES

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*
- RT ACOUSTIC NOZZLES
- ANNULAR NOZZLES
- ATOMIZERS
- BLOWERS
- CHOKES
- CHOKES (RESTRICTIONS)
- COAXIAL NOZZLES
- CONICAL NOZZLES
- CONVERGENT NOZZLES
- CONVERGENT-DIVERGENT NOZZLES
- ∞ DIFFUSERS
- DIVERGENT NOZZLES
- DUAL THRUST NOZZLES
- EXHAUST NOZZLES
- FLOW MEASUREMENT
- FUNNELS
- HYPERSONIC NOZZLES

## NOZZLES-(CONT.)

- INJECTORS
- INLET NOZZLES
- NOZZLE DESIGN
- NOZZLE EFFICIENCY
- NOZZLE GEOMETRY
- NOZZLE INSERTS
- NOZZLE WALLS
- ORIFICES
- OUTLETS
- PIPE NOZZLES
- PLUG NOZZLES
- ROCKET NOZZLES
- SHROUDED NOZZLES
- SONIC NOZZLES
- SPIKE NOZZLES
- SPRAY NOZZLES
- SPRAYERS
- SUPERSONIC NOZZLES
- TRANSONIC NOZZLES
- TURBINES
- VENTS
- WIND TUNNEL NOZZLES

## NRX REACTORS

- GS NUCLEAR REACTORS
- . LIQUID COOLED REACTORS
- . . WATER COOLED REACTORS
- . . . NRX REACTORS
- . NUCLEAR RESEARCH AND TEST REACTORS
- . . . NRX REACTORS
- RT KIWI REACTORS
- NUCLEAR ENGINE FOR ROCKET VEHICLES

## NUCLEAR GYROSCOPES

- GS GYROSCOPES
- . NUCLEAR GYROSCOPES

## NUCLEAR LIGHTBULB ENGINES

- GS ENGINES
- . ROCKET ENGINES
- . . NUCLEAR ROCKET ENGINES
- . . . NUCLEAR LIGHTBULB ENGINES
- RT GASEOUS FISSION REACTORS

## NUCLEAR PROPELLED AIRCRAFT

- RT ∞ AIRCRAFT
- ∞ MILITARY AIRCRAFT
- RESEARCH AIRCRAFT

## NUCLEAR RAMJET ENGINES

- GS ENGINES
- . ROCKET ENGINES
- . . NUCLEAR RAMJET ENGINES
- RT PLUTO REACTORS
- ∞ ROCKETS
- SUPERSONIC LOW ALTITUDE MISSILE

## NUCLEAR ROCKET ENGINES

- UF THERMIONIC REACTORS
- GS ENGINES
- . ROCKET ENGINES
- . . NUCLEAR ROCKET ENGINES
- . . . NUCLEAR LIGHTBULB ENGINES
- RT BOOSTER ROCKET ENGINES
- ION ENGINES
- MERCURY ION ENGINES
- PHOEBUS NUCLEAR REACTOR
- PLUTO REACTORS
- RESTARTABLE ROCKET ENGINES
- ∞ ROCKETS
- SUSTAINER ROCKET ENGINES

## NUCLEAR WARHEADS

- GS WEAPONS
- . WARHEADS
- . . NUCLEAR WARHEADS

## NUMERICAL FLOW VISUALIZATION

- GS FLOW VISUALIZATION
- . NUMERICAL FLOW VISUALIZATION
- RT FLOW DISTRIBUTION
- HYDRAULIC ANALOGIES

## NUMERICAL INTEGRATION

- UF COWELL METHOD
- GS ANALYSIS (MATHEMATICS)
- . NUMERICAL ANALYSIS
- . . NUMERICAL INTEGRATION
- . . . RUNGE-KUTTA METHOD
- . . . REAL VARIABLES
- . . . MEASURE AND INTEGRATION

## NUMERICAL INTEGRATION-(CONT.)

- . . . . NUMERICAL INTEGRATION
- . . . . RUNGE-KUTTA METHOD
- RT DIFFERENTIAL EQUATIONS
- DIGITAL INTEGRATORS
- INTEGRAL CALCULUS

## NUMERICAL STABILITY

- RT APPROXIMATION
- BACKWARD DIFFERENCING
- DIFFERENCE EQUATIONS
- DIFFERENTIAL EQUATIONS
- STRANGE ATTRACTORS

## NUSSELT NUMBER

- GS RATIOS
- . DIMENSIONLESS NUMBERS
- . . NUSSELT NUMBER
- RT CONVECTIVE HEAT TRANSFER
- HEAT TRANSFER
- PRANDTL NUMBER
- SCHMIDT NUMBER

# O

## OBLIQUE SHOCK WAVES

- GS ELASTIC WAVES
- . SHOCK WAVES
- . . OBLIQUE SHOCK WAVES
- RT MAGNETOHYDRODYNAMIC WAVES
- NORMAL SHOCK WAVES
- SHOCK LAYERS
- SUPERSONIC COMPRESSORS

## OBLIQUE WINGS

- GS AIRFOILS
- . WINGS
- . . OBLIQUE WINGS
- RT AERODYNAMIC CONFIGURATIONS
- AIRCRAFT PARTS
- AIRCRAFT STRUCTURES
- DRONE AIRCRAFT
- PILOTLESS AIRCRAFT
- REMOTELY PILOTTED VEHICLES
- WING PLANFORMS

## OBSERVATION AIRCRAFT

- GS OBSERVATION AIRCRAFT
- . A-2 AIRCRAFT
- . BREGUET 1150 AIRCRAFT
- . CESSNA L-19 AIRCRAFT
- . CL-84 AIRCRAFT
- . E-2 AIRCRAFT
- . F-5 AIRCRAFT
- . G-91 AIRCRAFT
- . G-95/4 AIRCRAFT
- . MIRAGE AIRCRAFT
- . . MIRAGE 3 AIRCRAFT
- . OH-4 HELICOPTER
- . OH-5 HELICOPTER
- . OH-6 HELICOPTER
- . OV-1 AIRCRAFT
- . OV-10 AIRCRAFT
- . P-1127 AIRCRAFT
- . P-1154 AIRCRAFT
- . RB-50 AIRCRAFT
- . RF-4 AIRCRAFT
- . TSR-2 AIRCRAFT
- . U-2 AIRCRAFT
- RT ∞ AIRCRAFT
- ANTISUBMARINE WARFARE AIRCRAFT
- ARC CLOUDS
- BALLOONS
- FLYING PLATFORMS
- GLIDERS
- HS-801 AIRCRAFT
- KUIPER AIRBORNE OBSERVATORY
- LIGHT AIRCRAFT
- LIGHT HELICOPTERS
- ∞ MILITARY AIRCRAFT
- RECONNAISSANCE AIRCRAFT
- TERRAIN FOLLOWING AIRCRAFT
- UTILITY AIRCRAFT
- WEATHER RECONNAISSANCE AIRCRAFT

## OBSTACLES

- USE BARRIERS

## OCCCLUSION

- RT DEGASSING
- GAS-METAL INTERACTIONS
- GAS-SOLID INTERFACES

**OCCCLUSION-(CONT.)**  
SOLIDIFICATION

**∞ OCTANE**  
SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT ANTIKNOCK ADDITIVES  
OCTANES

**OCTANE NUMBER**  
RT GASOLINE

**OGEE WINGS**  
USE VARIABLE SWEEP WINGS

**OGIVES**  
RT BODIES OF REVOLUTION  
ELLIPSOIDS  
FAIRINGS  
NOSE CONES  
SPHERES  
STREAMLINED BODIES  
SYMMETRICAL BODIES

**OH-4 HELICOPTER**  
UF HO-4 HELICOPTER  
GS BELL AIRCRAFT  
OH-4 HELICOPTER  
LIGHT AIRCRAFT  
LIGHT HELICOPTERS  
OH-4 HELICOPTER  
OBSERVATION AIRCRAFT  
OH-4 HELICOPTER  
V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
LIGHT HELICOPTERS  
OH-4 HELICOPTER  
MILITARY HELICOPTERS  
OH-4 HELICOPTER

**OH-5 HELICOPTER**  
UF FH-1100 HELICOPTER  
HO-5 HELICOPTER  
GS FAIRCHILD-HILLER AIRCRAFT  
OH-5 HELICOPTER  
HILLER AIRCRAFT  
OH-5 HELICOPTER  
LIGHT AIRCRAFT  
LIGHT HELICOPTERS  
OH-5 HELICOPTER  
OBSERVATION AIRCRAFT  
OH-5 HELICOPTER  
PASSENGER AIRCRAFT  
OH-5 HELICOPTER  
V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
LIGHT HELICOPTERS  
OH-5 HELICOPTER  
MILITARY HELICOPTERS  
OH-5 HELICOPTER  
RT RIGID ROTOR HELICOPTERS

**OH-6 HELICOPTER**  
UF HO-6 HELICOPTER  
LOH HELICOPTER  
GS HUGHES AIRCRAFT  
OH-6 HELICOPTER  
LIGHT AIRCRAFT  
LIGHT HELICOPTERS  
OH-6 HELICOPTER  
OBSERVATION AIRCRAFT  
OH-6 HELICOPTER  
V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
LIGHT HELICOPTERS  
OH-6 HELICOPTER  
MILITARY HELICOPTERS  
OH-6 HELICOPTER

**OMEGA NAVIGATION SYSTEM**  
GS MEASURING INSTRUMENTS  
OMEGA NAVIGATION SYSTEM  
NAVIGATION  
OMEGA NAVIGATION SYSTEM  
RT AIR NAVIGATION  
SYSTEMS

**OMNIPOL HC-3 HELICOPTER**  
USE HC-3 HELICOPTER

**OMNIPOL L-29 AIRCRAFT**  
USE L-29 JET TRAINER

**OMNIPOL Z-37 AIRCRAFT**  
USE Z-37 AIRCRAFT

**OMNIRANGE NAVIGATION**  
USE VHF OMNIRANGE NAVIGATION

**ONBOARD EQUIPMENT**  
GS ONBOARD EQUIPMENT  
AIRBORNE EQUIPMENT  
AIRBORNE/SPACEBORNE  
COMPUTERS  
LIGHT AIRBORNE MULTIPURPOSE  
SYSTEM  
TERCOM  
AIRBORNE LASERS  
AIRCRAFT EQUIPMENT  
BOMBING EQUIPMENT  
EJECTION SEATS  
FLYING EJECTION SEATS  
TERCOM  
SPACECRAFT EQUIPMENT  
SPACECRAFT ELECTRONIC  
EQUIPMENT  
RT AIRBORNE SURVEILLANCE RADAR  
AIRCRAFT  
BUBBLE TECHNIQUE  
CREW PROCEDURES (PREFLIGHT)  
EQUIPMENT  
FLIGHT INSTRUMENTS  
FLIGHT OPERATIONS  
FLIGHT SAFETY  
HEATING EQUIPMENT  
LIFE SUPPORT SYSTEMS  
LIGHTING EQUIPMENT  
RADAR EQUIPMENT  
RADIO EQUIPMENT  
SPACECRAFT INSTRUMENTS  
STOWAGE (ONBOARD EQUIPMENT)  
SURVIVAL EQUIPMENT  
TELECOMMUNICATION  
TEST EQUIPMENT  
TRAINING DEVICES

**ONE DIMENSIONAL FLOW**  
GS FLUID FLOW  
ONE DIMENSIONAL FLOW  
RT ANNULAR FLOW  
AXIAL FLOW  
CORE FLOW  
FLOW GEOMETRY  
HUGONIOT EQUATION OF STATE  
THREE DIMENSIONAL FLOW  
TWO DIMENSIONAL FLOW

**ONE-PHASE FLOW**  
USE SINGLE-PHASE FLOW

**ONISOTROPY**  
USE ANISOTROPY

**ONSAGER PHENOMENOLOGICAL COEFFICIENT**  
GS COEFFICIENTS  
ONSAGER PHENOMENOLOGICAL  
COEFFICIENT  
RT FLUX DENSITY  
PLASMAS (PHYSICS)  
STATISTICAL MECHANICS  
VARIATIONAL PRINCIPLES

**OPEN CHANNEL FLOW**  
GS FLUID FLOW  
CHANNEL FLOW  
OPEN CHANNEL FLOW  
LIQUID FLOW  
OPEN CHANNEL FLOW  
RT LAMINAR FLOW  
MEANDERS  
PIPE FLOW  
TURBULENT FLOW  
WATER FLOW

**OPENINGS**  
UF CUT-OUTS  
GS OPENINGS  
APERTURES  
IRISES (MECHANICAL APERTURES)  
SYNTHETIC APERTURES  
PORTS (OPENINGS)  
SLITS  
RT ANNULAR DUCTS  
CAVITIES

**OPENINGS-(CONT.)**

CRACKS  
CURTAINS  
DOORS  
DUCT GEOMETRY  
DUCTS  
EGRESS  
EXHAUST NOZZLES  
EXHAUST SYSTEMS  
GAPS  
GATES (OPENINGS)  
INGRESS (SPACECRAFT PASSAGEWAY)  
INLET NOZZLES  
INTAKE SYSTEMS  
ORIFICES  
OUTLETS  
PASSAGEWAYS  
PERFORATED PLATES  
PIPE NOZZLES  
SLOTS  
VENTS  
WINDOWS (APERTURES)

**OPERATING TEMPERATURE**  
GS TEMPERATURE  
OPERATING TEMPERATURE  
RT AMBIENT TEMPERATURE  
COMBUSTION TEMPERATURE  
HIGH TEMPERATURE  
SUPERCONDUCTORS  
ROOM TEMPERATURE  
WALL TEMPERATURE

**OPERATIONAL HAZARDS**  
GS HAZARDS  
OPERATIONAL HAZARDS  
RT AIR PIRACY  
AIRCRAFT HAZARDS  
CUMULATIVE DAMAGE  
FLIGHT HAZARDS  
METEOROID HAZARDS  
NOISE (SOUND)  
OCCUPATIONAL DISEASES  
RADIATION HAZARDS

**OPTICAL DEPTH**  
USE OPTICAL THICKNESS

**OPTICAL GYROSCOPES**  
GS GYROSCOPES  
OPTICAL GYROSCOPES  
OPTICAL EQUIPMENT  
OPTICAL GYROSCOPES  
RT LASER GYROSCOPES  
OPTICS  
SAGNAC EFFECT

**OPTICAL MEASUREMENT**  
SN (MEASUREMENTS OF OPTICAL  
PROPERTIES, QUANTITIES OR  
CONDITIONS)  
GS OPTICAL MEASUREMENT  
COLORIMETRY  
OPTOMETRY  
PHOTOMETRY  
ASTRONOMICAL PHOTOMETRY  
STELLAR SPECTROPHOTOMETRY  
ELECTROPHOTOMETRY  
INFRARED PHOTOMETRY  
SPECTROPHOTOMETRY  
STELLAR SPECTROPHOTOMETRY  
TELEPHOTOMETRY  
ULTRAVIOLET PHOTOMETRY  
VISUAL PHOTOMETRY  
POLARIMETRY  
RT CHEMICAL ANALYSIS  
COLLIMATORS  
DENSITOMETERS  
DIFFRACTOMETERS  
ELECTRO-OPTICAL PHOTOGRAPHY  
ELLIPSOMETRY  
EMISSION  
ETALONS  
FARADAY EFFECT  
GAMMA RAY SPECTROMETERS  
GEODIMETERS  
GEOMETRICAL OPTICS  
GRAZING INCIDENCE  
INFRARED INTERFEROMETERS  
INTERFEROMETERS  
LIGHT (VISIBLE RADIATION)  
MEASUREMENT  
MICRODENSITOMETERS  
MODULATION TRANSFER FUNCTION  
NEPHELOMETERS

## OPTICAL MEASURING INSTRUMENTS

### OPTICAL MEASUREMENT-(CONT.)

∞ OPTICS  
 PHASE CONTRAST  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOMETERS  
 POLARIMETERS  
 RAY TRACING  
 REFLECTANCE  
 REFLECTOMETERS  
 REFRACTOMETERS  
 RONCHI TEST  
 SPECTRAL SIGNATURES  
 SPECTROMETERS  
 SPECTROPHOTOMETERS  
 STROBOSCOPES

### OPTICAL MEASURING INSTRUMENTS

SN (INSTRUMENTS UTILIZING OPTICAL PRINCIPLES FOR MEASUREMENT)  
 UF OPTICAL SENSORS  
 GS MEASURING INSTRUMENTS  
 . OPTICAL MEASURING INSTRUMENTS  
 . CATHETOMETERS  
 . DIFFRACTOMETERS  
 . EBERT SPECTROMETERS  
 . ELLIPSOMETERS  
 . ETALONS  
 . GEODIMETERS  
 . HAPLOSCOPES  
 . INFRARED SPECTROMETERS  
 . . . FILTER WHEEL INFRARED SPECTROMETERS  
 . LIGHT SCATTERING METERS  
 . MICRODENSITOMETERS  
 . NEPHELOMETERS  
 . OCULOMETERS  
 . OPTICAL PYROMETERS  
 . OPTICAL RANGE FINDERS  
 . . LASER RANGE FINDERS  
 . . PHOTOgoniometers  
 . . PHOTOMETERS  
 . . . ELECTROPHOTOMETERS  
 . . . ULTRAVIOLET SPECTROMETERS  
 . . . . TOTAL OZONE MAPPING SPECTROMETER  
 . . . ULTRAVIOLET SPECTROPHOTOMETERS  
 . . POLARIMETERS  
 . . REFLECTOMETERS  
 . . . MICROWAVE REFLECTOMETERS  
 . . REFRACTOMETERS  
 . . . SEXTANTS  
 . . . SPECTROPHOTOMETERS  
 . . . INFRARED SPECTROPHOTOMETERS  
 . . . ULTRAVIOLET SPECTROPHOTOMETERS  
 . . . TRANSITS  
 . . . THEODOLITES  
 . . . . CINETHOODOLITES  
 . . . TRANSMISSOMETERS  
 . OPTICAL EQUIPMENT  
 . OPTICAL MEASURING INSTRUMENTS  
 . . CATHETOMETERS  
 . . DIFFRACTOMETERS  
 . . EBERT SPECTROMETERS  
 . . ELLIPSOMETERS  
 . . ETALONS  
 . . GEODIMETERS  
 . . HAPLOSCOPES  
 . . INFRARED SPECTROMETERS  
 . . . FILTER WHEEL INFRARED SPECTROMETERS  
 . . LIGHT SCATTERING METERS  
 . . MICRODENSITOMETERS  
 . . NEPHELOMETERS  
 . . OCULOMETERS  
 . . OPTICAL PYROMETERS  
 . . OPTICAL RANGE FINDERS  
 . . . LASER RANGE FINDERS  
 . . . PHOTOgoniometers  
 . . . PHOTOMETERS  
 . . . . ELECTROPHOTOMETERS  
 . . . . ULTRAVIOLET SPECTROMETERS  
 . . . . . TOTAL OZONE MAPPING SPECTROMETER  
 . . . ULTRAVIOLET SPECTROPHOTOMETERS  
 . . . POLARIMETERS  
 . . . REFLECTOMETERS  
 . . . . MICROWAVE REFLECTOMETERS  
 . . . REFRACTOMETERS  
 . . . . SEXTANTS  
 . . . . SPECTROPHOTOMETERS  
 . . . . INFRARED SPECTROPHOTOMETERS  
 . . . . ULTRAVIOLET SPECTROPHOTOMETERS

### OPTICAL MEASURING INSTRUMENTS-(CONT.)

RT  
 . . . TRANSITS  
 . . . THEODOLITES  
 . . . . CINETHOODOLITES  
 . . . TRANSMISSOMETERS  
 . . . ABSORPTION SPECTROSCOPY  
 . . . CINESPECTROGRAPHS  
 . . . COLORIMETRY  
 . . . DENSITOMETERS  
 . . . FABRY-PEROT SPECTROMETERS  
 . . . FAINT OBJECT CAMERA  
 . . . GONIOMETERS  
 . . . GUIDANCE SENSORS  
 . . . INFRARED INTERFEROMETERS  
 . . . INTERFEROMETERS  
 . . . LASER DOPPLER VELOCIMETERS  
 . . . MACH-ZEHNDER INTERFEROMETERS  
 . . . MICROSCOPES  
 . . . MIROS SYSTEM  
 . . . MONOCHROMATORS  
 . . . MULTISPECTRAL TRACKING  
 . . . TELESCOPES  
 . . . OPTICAL BISTABILITY  
 ∞ OPTICS  
 . OPTOGALVANIC SPECTROSCOPY  
 . PERISCOPES  
 . POLARIMETRY  
 . POLARISCOPES  
 . RADIATION MEASURING INSTRUMENTS  
 . REFLECTING TELESCOPES  
 . REFRACTING TELESCOPES  
 . SELF FOCUSING  
 . SENARMONT POLARISCOPES  
 . SOLAR INSTRUMENTS  
 . TELEPHOTOMETRY  
 . TELESCOPES

### OPTICAL PYROMETERS

GS MEASURING INSTRUMENTS  
 . OPTICAL MEASURING INSTRUMENTS  
 . . OPTICAL PYROMETERS  
 . . TEMPERATURE MEASURING INSTRUMENTS  
 . . . OPTICAL PYROMETERS  
 . . OPTICAL EQUIPMENT  
 . . OPTICAL MEASURING INSTRUMENTS  
 . . . OPTICAL PYROMETERS  
 RT ∞ OPTICS  
 . RADIATION PYROMETERS

### OPTICAL RANGE FINDERS

GS MEASURING INSTRUMENTS  
 . DISTANCE MEASURING EQUIPMENT  
 . . RANGE FINDERS  
 . . . OPTICAL RANGE FINDERS  
 . . . . LASER RANGE FINDERS  
 . . . OPTICAL MEASURING INSTRUMENTS  
 . . . OPTICAL RANGE FINDERS  
 . . . . LASER RANGE FINDERS  
 . . OPTICAL EQUIPMENT  
 . . OPTICAL MEASURING INSTRUMENTS  
 . . . OPTICAL RANGE FINDERS  
 . . . . LASER RANGE FINDERS  
 RT LUNAR RANGE FINDING  
 ∞ OPTICS

### OPTICAL SENSORS

USE OPTICAL MEASURING INSTRUMENTS

### OPTICAL THICKNESS

UF OPTICAL DEPTH  
 RT ANTIREFLECTION COATINGS  
 FERMAT PRINCIPLE  
 ∞ OPTICS  
 . REFRACTIVITY  
 . THICKNESS

### OPTIMAL CONTROL

UF OPTIMUM CONTROL  
 GS AUTOMATIC CONTROL  
 . OPTIMAL CONTROL  
 . . LINEAR QUADRATIC REGULATOR  
 . . . LINEAR QUADRATIC GAUSSIAN CONTROL  
 . . . TIME OPTIMAL CONTROL OPTIMIZATION  
 . . . OPTIMAL CONTROL  
 . . . LINEAR QUADRATIC REGULATOR  
 . . . . LINEAR QUADRATIC GAUSSIAN CONTROL  
 . . . . TIME OPTIMAL CONTROL  
 . . . . ADAPTIVE CONTROL  
 RT ∞ CONTROL  
 . CONTROL SYSTEMS DESIGN  
 . CONTROL THEORY

### OPTIMAL CONTROL-(CONT.)

FEEDBACK CONTROL  
 FEEDFORWARD CONTROL  
 INVENTORY CONTROLS  
 KALMAN-SCHMIDT FILTERING  
 MODEL REFERENCE ADAPTIVE CONTROL  
 PARAMETER IDENTIFICATION  
 TRACKING PROBLEM  
 TRAJECTORY CONTROL

### OPTIMUM CONTROL

USE OPTIMAL CONTROL

### OPTIMUM THRUST PROGRAMMING

USE THRUST PROGRAMMING

### ORBITAL ASSEMBLY

UF CONSTRUCTION IN SPACE  
 SPACECRAFT ORBITAL ASSEMBLY  
 GS ASSEMBLING  
 . ORBITAL ASSEMBLY  
 RT EXPANDABLE STRUCTURES  
 INFLATABLE SPACECRAFT  
 SELF ERECTING DEVICES  
 SPACE ERECTABLE STRUCTURES  
 SPACE OPERATIONS CENTER (NASA)  
 SPACE STATION STRUCTURES  
 SPACECRAFT MODULES  
 SPACECRAFT STRUCTURES

### ORBITAL BREAKUP

USE SPACECRAFT BREAKUP

### ORBITAL SHOTS

RT ∞ SHOT  
 SPACECRAFT LAUNCHING

### ORIFICE FLOW

GS FLUID FLOW  
 . ORIFICE FLOW  
 RT CRITICAL FLOW  
 ∞ FLOW  
 . GAS FLOW  
 . GRAZING FLOW  
 . LAMINAR FLOW  
 . LIQUID FLOW  
 . MULTIPHASE FLOW  
 . ORIFICES  
 . PIPE FLOW  
 . PRESSURE GRADIENTS  
 . SINGLE-PHASE FLOW  
 . STEADY FLOW  
 . STEAM FLOW  
 . SUBCRITICAL FLOW  
 . SUPERCRITICAL FLOW  
 . TURBULENT FLOW  
 . UNSTEADY FLOW

### ORIFICES

RT ANNULAR DUCTS  
 APERTURES  
 CAVITIES  
 CHOKES (FUEL SYSTEMS)  
 CHOKES (RESTRICTIONS)  
 DUCTS  
 FLOW MEASUREMENT  
 FLOWMETERS  
 GAPS  
 INJECTORS  
 ∞ NOZZLES  
 . OPENINGS  
 ∞ OPERATIONS  
 . ORIFICE FLOW  
 . PORTS (OPENINGS)  
 . SPRAY NOZZLES  
 . THROATS  
 . VENTURI TUBES

### ORION (RADIO INTERFEROMETRY NETWORK)

RT RADIO INTERFEROMETERS  
 RADIO RECEIVERS  
 TRACKING NETWORKS

### ORION AIRCRAFT

USE P-3 AIRCRAFT

### ORNITHOPTER AIRCRAFT

USE RESEARCH AIRCRAFT

### ORR-SOMMERFELD EQUATIONS

RT ∞ EQUATIONS  
 . FLOW DISTORTION  
 . FLOW STABILITY

**ORR-SOMMERFELD EQUATIONS-(CONT.)**

FLOW THEORY  
QUANTUM MECHANICS  
VELOCITY DISTRIBUTION

**ORTHOPHOTOGRAPHY**

GS PHOTOGRAPHY  
    . ORTHOPHOTOGRAPHY  
RT AERIAL PHOTOGRAPHY  
    COLOR PHOTOGRAPHY  
    MAPPING

**OSCILLATING FLOW**

GS FLUID FLOW  
    . UNSTEADY FLOW  
    . OSCILLATING FLOW  
RT BUFFETING  
    COMPRESSIBILITY EFFECTS  
    FLOW DISTORTION  
    NONEQUILIBRIUM FLOW  
    SMALL PERTURBATION FLOW  
    STROUHAL NUMBER

**OSEEN APPROXIMATION**

GS ANALYSIS (MATHEMATICS)  
    . NUMERICAL ANALYSIS  
    . APPROXIMATION  
    . OSEEN APPROXIMATION  
RT INCOMPRESSIBLE FLUIDS  
    NAVIER-STOKES EQUATION  
    ROSHKO PREDICTION  
    STOKES FLOW  
    VISCOUS FLUIDS

**OSPREY AIRCRAFT**

USE V-22 AIRCRAFT

**OSPREY MISSILE**

GS MISSILES  
    . OSPREY MISSILE  
RT J-85 ENGINE

**OTTO CYCLE**

GS CYCLES  
    . THERMODYNAMIC CYCLES  
    . OTTO CYCLE  
RT RANKINE CYCLE

**OV-1 AIRCRAFT**

UF AO-1 AIRCRAFT  
GRUMMAN OV-1C AIRCRAFT  
MOHAWK AIRCRAFT  
GS GRUMMAN AIRCRAFT  
    . OV-1 AIRCRAFT  
    JET AIRCRAFT  
    . TURBOPROP AIRCRAFT  
    . OV-1 AIRCRAFT  
MONOPLANES  
    . OV-1 AIRCRAFT  
OBSERVATION AIRCRAFT  
    . OV-1 AIRCRAFT  
RT ∞ AIRCRAFT

**OVERPRESSURE**

GS PRESSURE  
    . OVERPRESSURE  
RT BLAST LOADS  
    DYNAMIC PRESSURE

**OXIDATION**

GS CHEMICAL REACTIONS  
    . OXIDATION  
    . ELECTROCHEMICAL OXIDATION  
    . PHOTOOXIDATION  
    . RUSTING  
RT ASSOCIATION REACTIONS  
    CHARRING  
    CHEMICAL ATTACK  
    COMBUSTION  
    COMBUSTION CHEMISTRY  
    CORROSION  
    DEGRADATION  
    DEHYDROGENATION  
    DOPA  
    ELECTRON TRANSFER  
    EPOXIDATION  
    EROSIVE BURNING  
    FUEL COMBUSTION  
    HOT CORROSION  
    HYDROCARBON COMBUSTION  
    METAL COMBUSTION  
    OXIDIZERS  
    OXYGENATION  
    PASSIVITY

**OXIDATION-(CONT.)**

REDUCTION (CHEMISTRY)  
ROASTING  
THERMAL RESISTANCE

**OXIDIZERS**

GS OXIDIZERS  
    . HIGH ENERGY OXIDIZERS  
    . LIQUID OXIDIZERS  
    . LIQUID OXYGEN  
    . PHOTOCHEMICAL OXIDANTS  
    . ROCKET OXIDIZERS  
    . FLOX  
    . TAGN  
RT ∞ AGENTS  
    AIR POLLUTION  
    FLUORINE  
    FUELS  
    NITRAMINE PROPELLANTS  
    OXIDATION

**OXYGEN MASKS**

GS BREATHING APPARATUS  
    . OXYGEN MASKS  
    MASKS  
    . OXYGEN MASKS  
    OXYGEN SUPPLY EQUIPMENT  
    . OXYGEN MASKS  
RT HIGH ALTITUDE BREATHING  
    LIFE SUPPORT SYSTEMS  
    PORTABLE LIFE SUPPORT SYSTEMS

**P**

**P WAVES**

GS ELASTIC WAVES  
    . P WAVES  
RT COMPRESSIBLE FLUIDS  
    COMPRESSION WAVES  
    CRUSTAL FRACTURES  
    DILATATIONAL WAVES  
    S WAVES  
    SEISMIC WAVES  
    SURFACE WAVES

**P-3 AIRCRAFT**

UF ORION AIRCRAFT  
P3V AIRCRAFT  
GS ANTISUBMARINE WARFARE AIRCRAFT  
    . P-3 AIRCRAFT  
    JET AIRCRAFT  
    . P-3 AIRCRAFT  
    LOCKHEED AIRCRAFT  
    . P-3 AIRCRAFT  
    MONOPLANES  
    . P-3 AIRCRAFT  
RT ∞ AIRCRAFT  
    TURBOPROP ENGINES

**P-51 AIRCRAFT**

UF MUSTANG AIRCRAFT  
GS ATTACK AIRCRAFT  
    . FIGHTER AIRCRAFT  
    . P-51 AIRCRAFT  
    MONOPLANES  
    . P-51 AIRCRAFT  
    NORTH AMERICAN AIRCRAFT  
    . P-51 AIRCRAFT  
    SINGLE ENGINE AIRCRAFT  
    . P-51 AIRCRAFT  
RT ∞ AIRCRAFT

**P-84 AIRCRAFT**

USE JET PROVOST AIRCRAFT

**PA-34 SENECA AIRCRAFT**

UF SENECA AIRCRAFT  
GS LIGHT AIRCRAFT  
    . PIPER AIRCRAFT  
    . PA-34 SENECA AIRCRAFT  
RT ∞ AIRCRAFT  
    ATLIT PROJECT  
    GAW-1 AIRFOIL  
    GENERAL DYNAMICS AIRCRAFT

**PACKAGES**

GS PACKAGES  
    . INSTRUMENT PACKAGES  
    . APOLLO LUNAR SURFACE  
    EXPERIMENTS PACKAGE  
    . EASEP

**PACKAGES-(CONT.)**

EREK  
RT BAGS  
    BOXES (CONTAINERS)  
    BUNDLES  
    CARTRIDGES  
    CASES (CONTAINERS)  
∞ CONTAINERS  
∞ INSTRUMENTS  
    PACKAGING

**PADE APPROXIMATION**

GS ANALYSIS (MATHEMATICS)  
    . CALCULUS  
    . SERIES (MATHEMATICS)  
    . PADE APPROXIMATION  
    NUMERICAL ANALYSIS  
    . APPROXIMATION  
    . PADE APPROXIMATION  
    REAL VARIABLES  
    . SERIES (MATHEMATICS)  
    . PADE APPROXIMATION

**PALMGREN-MINER RULE**

UF MINER RULE  
GS RULES  
    . PALMGREN-MINER RULE  
RT FATIGUE LIFE

**PANAVIA MILITARY AIRCRAFT**

RT ∞ AIRCRAFT  
    AIRCRAFT DESIGN  
    FIGHTER AIRCRAFT  
    . MILITARY AIRCRAFT  
    VARIABLE SWEEP WINGS  
    WEAPON SYSTEMS

**PANEL FLUTTER**

GS VIBRATION  
    . STRUCTURAL VIBRATION  
    . FLUTTER  
    . PANEL FLUTTER  
    . SELF INDUCED VIBRATION  
    . PANEL FLUTTER  
RT AERODYNAMIC NOISE  
    AEROELASTICITY  
    BENDING VIBRATION

**PANEL METHOD (FLUID DYNAMICS)**

GS PROCEDURES  
    . PANEL METHOD (FLUID DYNAMICS)  
RT BERNOULLI THEOREM  
    BOUNDARY LAYERS  
    COMPUTATIONAL FLUID DYNAMICS  
    FINITE ELEMENT METHOD  
∞ FLOW  
    FLOW THEORY  
    FLUID DYNAMICS  
    FLUX VECTOR SPLITTING  
    GAS-SOLID INTERACTIONS  
∞ METHODOLOGY  
    TURBULENCE

**PANTHER AIRCRAFT**

USE F-9 AIRCRAFT

**PARABOLIC BODIES**

UF PARABOLOIDS  
GS SYMMETRICAL BODIES  
    . BODIES OF REVOLUTION  
    . PARABOLIC BODIES

**PARABOLIC DIFFERENTIAL EQUATIONS**

GS ANALYSIS (MATHEMATICS)  
    . REAL VARIABLES  
    . DIFFERENTIAL EQUATIONS  
    . PARTIAL DIFFERENTIAL EQUATIONS  
    . PARABOLIC DIFFERENTIAL  
    EQUATIONS  
RT ∞ EQUATIONS

**PARABOLIC FLIGHT**

RT ASCENT TRAJECTORIES  
    BALLISTIC TRAJECTORIES  
    CLIMBING FLIGHT  
    COASTING FLIGHT  
    DESCENT TRAJECTORIES  
∞ FLIGHT  
    MIDCOURSE TRAJECTORIES  
    MISSILE TRAJECTORIES  
    SUBORBITAL FLIGHT  
    TRAJECTORIES  
    WEIGHTLESSNESS  
    WEIGHTLESSNESS SIMULATION

## PARABOLOIDS

### PARABOLOIDS

USE PARABOLIC BODIES

### PARACHUTE DESCENT

UF PARACHUTING  
GS DESCENT  
RT PARACHUTE DESCENT  
BAILOUT  
EJECTION  
EJECTION TRAINING  
ESCAPE (ABANDONMENT)  
FREE FALL  
PARACHUTES

### PARACHUTE FABRICS

GS FABRICS  
RT PARACHUTE FABRICS  
FORTISAN (TRADEMARK)  
GORES  
PARACHUTES

### PARACHUTES

GS PARACHUTES  
DRAG CHUTES  
RECOVERY PARACHUTES  
RIBBON PARACHUTES  
ROTOCHUTES  
RT AERODYNAMIC BRAKES  
AIR DROP OPERATIONS  
AIRDROPS  
BALLUTES  
BRAKES (FOR ARRESTING MOTION)  
FOLDING STRUCTURES  
PARACHUTE DESCENT  
PARACHUTE FABRICS  
PARACONE  
PARAVULCOONS  
PARAWINGS  
TOWED BODIES  
WHIRL TOWERS

### PARACHUTING

USE PARACHUTE DESCENT

### PARACONE

RT ESCAPE CAPSULES  
ESCAPE SYSTEMS  
PARACHUTES

### PARAGLIDERS

GS GLIDERS  
PARAGLIDERS  
INFLATABLE GLIDERS  
RT FOLDING STRUCTURES  
HYPERSONIC GLIDERS  
PARAWINGS  
SUBSONIC AIRCRAFT

### PARALLEL FLOW

GS FLUID FLOW  
PARALLEL FLOW  
PIPE FLOW  
THREE DIMENSIONAL FLOW  
RT FLOW GEOMETRY  
FLOW VELOCITY  
FLUID DYNAMICS  
LAMINAR FLOW  
STEADY FLOW

### PARALLEL PLATES

RT CAPACITORS  
CHANNELS  
FLAT PLATES  
METAL PLATES  
PLATES  
THIN PLATES  
WAVEGUIDES

### PARAVULCOONS

GS BRAKES (FOR ARRESTING MOTION)  
AERODYNAMIC BRAKES  
PARAVULCOONS  
DRAG DEVICES  
AERODYNAMIC BRAKES  
PARAVULCOONS  
EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
PARAVULCOONS  
RT AIR DROP OPERATIONS  
BALLOONS  
FOLDING STRUCTURES  
PARACHUTES

### PARAWINGS

GS AIRFOILS  
WINGS  
FLEXIBLE WINGS  
PARAWINGS  
RT AIR DROP OPERATIONS  
FOLDING STRUCTURES  
HANG GLIDERS  
PARACHUTES  
PARAGLIDERS

### PARKING

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)  
RT PARKING ORBITS  
RAMPS (STRUCTURES)

### PARTIAL DIFFERENTIAL EQUATIONS

GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
DIFFERENTIAL EQUATIONS  
PARTIAL DIFFERENTIAL  
EQUATIONS  
BIHARMONIC EQUATIONS  
BURGER EQUATION  
CAUCHY-RIEMANN EQUATIONS  
ELLIPTIC DIFFERENTIAL  
EQUATIONS  
MONGE-AMPERE EQUATION  
EULER-CAUCHY EQUATIONS  
FOKKER-PLANCK EQUATION  
GAUSS EQUATION  
HELMHOLTZ VORTICITY EQUATION  
LIOUVILLE EQUATIONS  
PARABOLIC DIFFERENTIAL  
EQUATIONS  
POISSON EQUATION  
VLASOV EQUATIONS  
RT ALTERNATING DIRECTION IMPLICIT  
METHODS  
BOLTZMANN-VLASOV EQUATION  
EQUATIONS  
FUNCTIONAL INTEGRATION  
KINETIC EQUATIONS  
LAPLACE EQUATION  
METHOD OF CHARACTERISTICS  
NEUMANN PROBLEM  
WAVE EQUATIONS

### PARTIAL PRESSURE

GS PRESSURE  
PARTIAL PRESSURE  
OXYGEN TENSION  
HYPOXEMIA  
RT DALTON LAW  
GAS PRESSURE  
HENRY LAW  
INTERNAL PRESSURE  
RAOULT LAW  
RESIDUAL GAS  
TENSION  
VAPOR PRESSURE

### PARTICLE IN CELL TECHNIQUE

GS ANALYSIS (MATHEMATICS)  
NUMERICAL ANALYSIS  
APPROXIMATION  
PARTICLE IN CELL TECHNIQUE  
RT CELLS  
CRYSTAL LATTICES  
FLOW EQUATIONS  
METHODODOLOGY

### PARTICLE LADEN JETS

RT FUEL FLOW  
JET FLOW  
PARTICLES  
TURBULENT FLOW

### PARTITIONS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED—CONSULT THE TERMS  
LISTED BELOW)  
RT CURTAINS  
PARTITIONS (MATHEMATICS)  
PARTITIONS (STRUCTURES)  
SEPTUM

### PASSAGEWAYS

GS PASSAGEWAYS  
STRAITS  
TORRES STRAIT  
TRANSFER TUNNELS  
RT APPROACH

### PASSAGEWAYS-(CONT.)

CAVITIES  
CORRIDORS  
GAPS  
NOTCHES  
OPENINGS  
PATHS  
ROADS  
TUNNELS  
UNDERGROUND STRUCTURES  
VESTIBULES

### PASSENGER AIRCRAFT

UF EXECUTIVE AIRCRAFT  
GS PASSENGER AIRCRAFT  
BAC 111 AIRCRAFT  
BO-105 HELICOPTER  
BOEING 707 AIRCRAFT  
BOEING 720 AIRCRAFT  
BOEING 727 AIRCRAFT  
BOEING 737 AIRCRAFT  
BOEING 747 AIRCRAFT  
BOEING 757 AIRCRAFT  
BOEING 767 AIRCRAFT  
BOEING 777 AIRCRAFT  
BREGUET 941 AIRCRAFT  
C-33 AIRCRAFT  
C-35 AIRCRAFT  
C-46 AIRCRAFT  
CESSNA 172 AIRCRAFT  
CESSNA 205 AIRCRAFT  
CESSNA 210 AIRCRAFT  
CESSNA 402B AIRCRAFT  
CH-3 HELICOPTER  
CH-46 HELICOPTER  
CH-47 HELICOPTER  
CH-54 HELICOPTER  
COMET 4 AIRCRAFT  
COMMUTER AIRCRAFT  
CV-340 AIRCRAFT  
CV-440 AIRCRAFT  
CV-880 AIRCRAFT  
CV-990 AIRCRAFT  
DC 8 AIRCRAFT  
DC 10 AIRCRAFT  
DH 121 AIRCRAFT  
DH 125 AIRCRAFT  
DO-27 AIRCRAFT  
DO-28 AIRCRAFT  
ELECTRA AIRCRAFT  
EUROPEAN AIRBUS  
A-300 AIRCRAFT  
A-310 AIRCRAFT  
A-320 AIRCRAFT  
F-27 AIRCRAFT  
F-28 HELICOPTER  
F-28 TRANSPORT AIRCRAFT  
G-1 AIRCRAFT  
G-222 AIRCRAFT  
H-19 HELICOPTER  
H-53 HELICOPTER  
H-56 HELICOPTER  
HFB-320 AIRCRAFT  
HS-748 AIRCRAFT  
IL-62 AIRCRAFT  
JETSTREAM AIRCRAFT  
L-1011 AIRCRAFT  
L-2000 AIRCRAFT  
MYSTERE 20 AIRCRAFT  
OH-5 HELICOPTER  
P-160 AIRCRAFT  
P-166 AIRCRAFT  
SE-210 AIRCRAFT  
T-39 AIRCRAFT  
TU-104 AIRCRAFT  
TU-124 AIRCRAFT  
TU-134 AIRCRAFT  
TU-144 AIRCRAFT  
U-10 AIRCRAFT  
VC-10 AIRCRAFT  
VISCOUNT AIRCRAFT  
YAK 40 AIRCRAFT  
YS-11 AIRCRAFT  
RT AIR TRANSPORTATION  
AIRCRAFT  
AN-22 AIRCRAFT  
AN-24 AIRCRAFT  
CARGO AIRCRAFT  
CIVIL AVIATION  
COMMERCIAL AIRCRAFT  
DC 7 AIRCRAFT  
E-2 AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
GROUND EFFECT MACHINES  
HC-3 HELICOPTER  
JET AIRCRAFT

**PASSENGER AIRCRAFT-(CONT.)**

LIGHT AIRCRAFT  
LIGHT TRANSPORT AIRCRAFT  
∞ LOW WING AIRCRAFT  
MERCURE AIRCRAFT  
MH-262 AIRCRAFT  
∞ MILITARY AIRCRAFT  
MYSTERE 50 AIRCRAFT  
P-531 HELICOPTER  
PD-808 AIRCRAFT  
ROTARY WING AIRCRAFT  
SAAB 105 AIRCRAFT  
SC-7 AIRCRAFT  
SHORT HAUL AIRCRAFT  
∞ SUBSONIC AIRCRAFT  
SUPERSONIC AIRCRAFT  
SUPERSONIC TRANSPORTS  
TRANSPORT AIRCRAFT  
TU-154 AIRCRAFT  
TURBOFAN AIRCRAFT  
TURBOPROP AIRCRAFT  
V/STOL AIRCRAFT  
WATER TAKEOFF AND LANDING  
AIRCRAFT

**PASSENGERS**

RT AIRLINE OPERATIONS  
AUTOMATED GUIDEWAY TRANSIT  
VEHICLES  
AUTOMATED MIXED TRAFFIC VEHICLES  
AUTOMATED TRANSIT VEHICLES  
PAYLOADS  
RAPID TRANSIT SYSTEMS  
RIDING QUALITY  
TRANSPORTATION

**PATHFINDER NUCLEAR REACTOR**

GS NUCLEAR ELECTRIC POWER  
GENERATION  
NUCLEAR POWER REACTORS  
PATHFINDER NUCLEAR REACTOR  
NUCLEAR REACTORS  
LIQUID COOLED REACTORS  
WATER COOLED REACTORS  
BOILING WATER REACTORS  
PATHFINDER NUCLEAR REACTOR  
NUCLEAR POWER REACTORS  
PATHFINDER NUCLEAR REACTOR

**∞ PATHS**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
UF COURSES  
LANES  
RT CRITICAL PATH METHOD  
DIFFRACTION PATHS  
DUALITY PRINCIPLE  
FLIGHT PATHS  
GROUND TRACKS  
MEAN FREE PATH  
METEOR TRAILS  
MULTIPATH TRANSMISSION  
NETWORK ANALYSIS  
OPERATIONS RESEARCH  
OPTICAL PATHS  
ORBITS  
PARTICLE TRAJECTORIES  
PASSAGEWAYS  
PERT  
ROUTES  
SOUND TRANSMISSION  
THERMODYNAMICS  
TRAJECTORIES

**PATRIOT MISSILE**

GS MISSILES  
SURFACE TO AIR MISSILES  
Patriot Missile  
RT MISSILE CONFIGURATIONS  
∞ ROCKETS  
WEAPONS

**PATTERN DISTRIBUTION**

USE DISTRIBUTION (PROPERTY)

**PAVEMENTS**

RT ASPHALT  
COATINGS  
CONCRETES  
FOUNDATIONS  
HIGHWAYS  
ROADS  
RUNWAYS  
STREETS

**PAYLOAD TRANSFER**

RT ORBITAL SERVICING  
PAYLOAD RETRIEVAL (STS)  
SPACE MAINTENANCE

**PAYLOADS**

GS PAYLOADS  
EXPOS (SPACELAB PAYLOAD)  
OSTA-2 PAYLOAD  
SEPAC (PAYLOAD)  
SHUTTLE IMAGING RADAR  
SORTIE SYSTEMS  
SPACE SHUTTLE PAYLOADS  
ADVANCED TECHNOLOGY  
LABORATORY  
ASTRO MISSIONS (STS)  
ATMOSPHERIC GENERAL  
CIRCULATION EXPERIMENT  
EARTH RADIATION BUDGET  
EXPERIMENT  
EARTH VIEWING APPLICATIONS  
LABORATORY  
ELECTROMAGNETIC ENVIRONMENT  
EXPERIMENT  
GET AWAY SPECIALS (STS)  
HALOGEN OCCULTATION  
EXPERIMENT  
OSS-1 PAYLOAD  
OSTA-1 PAYLOAD  
OSTA-3 PAYLOAD  
PHYSICS AND CHEMISTRY  
EXPERIMENT IN SPACE  
PLASMA INTERACTION EXPERIMENT  
SPACELAB  
X RAY ASTROPHYSICS FACILITY  
SPACE STATION PAYLOADS  
SPACELAB PAYLOADS  
AMPS (SATELLITE PAYLOAD)  
ATMOSPHERIC CLOUD PHYSICS LAB  
(SPACELAB)  
ATMOSPHERIC GENERAL  
CIRCULATION EXPERIMENT  
GEOPHYSICAL FLUID FLOW CELLS  
SOLAR CELL CALIBRATION FACILITY  
RT AIRCRAFT PERFORMANCE  
AIRCRAFT SPECIFICATIONS  
ANNULAR SUSPENSION AND POINTING  
SYSTEM  
APOLLO LUNAR SURFACE EXPERIMENTS  
PACKAGE  
ASTEROID CAPTURE  
EASEP  
GERMAN INFRARED LABORATORY  
INSTRUMENT PACKAGES  
LIRTS (TELESCOPE)  
∞ LOADING  
LOADS (FORCES)  
PASSENGERS  
PAYLOAD ASSIST MODULE  
PAYLOAD CONTROL  
PAYLOAD DELIVERY (STS)  
PAYLOAD DEPLOYMENT & RETRIEVAL  
SYSTEM  
PAYLOAD INTEGRATION  
PAYLOAD INTEGRATION PLAN  
PAYLOAD STATIONS  
PIGGYBACK SYSTEMS  
SPACE PROCESSING APPLICATIONS  
ROCKET  
SPACE TRANSPORTATION  
SPACE TUGS  
SPACEBORNE EXPERIMENTS  
VERTICAL 8 ROCKET  
WARHEADS  
∞ WEIGHT  
WEIGHT (MASS)

**PD-808 AIRCRAFT**

UF DOUGLAS PD-808 AIRCRAFT  
PIAGGIO-DOUGLAS PD-808 AIRCRAFT  
GS JET AIRCRAFT  
PD-808 AIRCRAFT  
LIGHT AIRCRAFT  
PD-808 AIRCRAFT  
MCDONNELL DOUGLAS AIRCRAFT  
DOUGLAS AIRCRAFT  
PD-808 AIRCRAFT  
MONOPLANES  
PD-808 AIRCRAFT  
PIAGGIO AIRCRAFT  
PD-808 AIRCRAFT  
UTILITY AIRCRAFT  
PD-808 AIRCRAFT  
RT ∞ AIRCRAFT  
PASSENGER AIRCRAFT

**PECLET NUMBER**

GS RATIOS  
DIMENSIONLESS NUMBERS  
PECLET NUMBER  
RT ADVECTION  
HEAT TRANSFER  
PRANDTL NUMBER  
REYNOLDS NUMBER  
THERMAL DIFFUSION

**PEGASUS AIR-LAUNCHED BOOSTER**

GS LAUNCH VEHICLES  
PEGASUS AIR-LAUNCHED BOOSTER  
ROCKET VEHICLES  
MULTISTAGE ROCKET VEHICLES  
PEGASUS AIR-LAUNCHED BOOSTER  
RT AIR LAUNCHING  
B-52 AIRCRAFT

**PEGASUS ENGINE**

USE BRISTOL-SIDDELEY BS 53 ENGINE

**PELTIER EFFECTS**

RT ∞ EFFECTS  
SEEBECK EFFECT  
TEMPERATURE EFFECTS  
THERMOCOUPLES  
THERMOELECTRIC COOLING  
THERMOELECTRICITY  
THERMOPHYSICAL PROPERTIES

**PENDULOUS GYROSCOPES**

USE GYROSCOPIC PENDULUMS

**PENDULUMS**

GS OSCILLATORS  
MECHANICAL OSCILLATORS  
PENDULUMS  
GYROSCOPIC PENDULUMS  
RT ACCELEROMETERS  
GRAVITATION  
MOMENTUM  
OSCILLATIONS  
TIMING DEVICES

**∞ PERFORATION**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT CAVITIES  
HOLES (MECHANICS)  
PERFORATED PLATES  
PERFORATED SHELLS  
PERFORATING  
PIERCING

**PERFUSION**

USE DIFFUSION

**PERILUNES**

GS APSIDES  
PERILUNES  
RT LUNAR ORBITS  
LUNAR SATELLITES  
PERIGEEES

**PERIPHERAL JET FLOW**

GS FLUID FLOW  
JET FLOW  
PERIPHERAL JET FLOW  
RT DOWNWASH  
GROUND EFFECT (AERODYNAMICS)  
GROUND EFFECT MACHINES  
LIFT AUGMENTATION

**PERIPHERIES**

USE BOUNDARIES

**PERSHING MISSILE**

GS MISSILES  
BALLISTIC MISSILES  
PERSHING MISSILE  
SURFACE TO SURFACE MISSILES  
PERSHING MISSILE  
RT MULTISTAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES

**PETREL SOUNDING ROCKET**

GS ROCKET VEHICLES  
SOUNDING ROCKETS  
PETREL SOUNDING ROCKET  
RT ∞ ROCKETS

## PETROLEUM PRODUCTS

### PETROLEUM PRODUCTS

GS PRODUCTS  
 . PETROLEUM PRODUCTS  
 . ASPHALT  
 . DIESEL FUELS  
 . GASOLINE  
 . TARS  
 RT BUTANES  
 CRUDE OIL  
 GREASES  
 LUBRICANTS  
 LUBRICATING OILS  
 METHANE  
 NATURAL GAS  
 OILS  
 PLASTICS  
 POLYNUCLEAR ORGANIC COMPOUNDS

### PHANTOM AIRCRAFT

GS JET AIRCRAFT  
 . PHANTOM AIRCRAFT  
 . F-4 AIRCRAFT  
 MCDONNELL DOUGLAS AIRCRAFT  
 . MCDONNELL AIRCRAFT  
 . PHANTOM AIRCRAFT  
 . F-4 AIRCRAFT  
 MONOPLANES  
 . PHANTOM AIRCRAFT  
 . F-4 AIRCRAFT  
 SUPERSONIC AIRCRAFT  
 . PHANTOM AIRCRAFT  
 . F-4 AIRCRAFT  
 RT ∞ AIRCRAFT

### PHASE SWITCHING INTERFEROMETERS

GS MEASURING INSTRUMENTS  
 . INTERFEROMETERS  
 . PHASE SWITCHING  
 INTERFEROMETERS  
 RT RADIO ASTRONOMY  
 RADIO TELESCOPES

### PHOENIX SOUNDING ROCKET

GS ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . PHOENIX SOUNDING ROCKET  
 . SOUNDING ROCKETS  
 . PHOENIX SOUNDING ROCKET  
 RT SOLID PROPELLANT ROCKET ENGINES

### PHOTODETECTORS

USE PHOTOMETERS

### PHOTOELASTIC ANALYSIS

UF PHOTOELASTIC STRESS MEASUREMENT  
 RT FRINGE MULTIPLICATION  
 MOIRE EFFECTS  
 ∞ OPTICS  
 PHOTOGRAPHIC MEASUREMENT  
 ∞ POLARIZATION  
 POLARIZATION (WAVES)  
 STRESS ANALYSIS  
 STRESS MEASUREMENT  
 TEMPERATURE INVERSIONS

### PHOTOELASTIC STRESS MEASUREMENT

USE PHOTOELASTIC ANALYSIS

### PHOTOGRAPH INTERPRETATION

USE PHOTOINTERPRETATION

### PHOTOGRAPHIC EQUIPMENT

GS PHOTOGRAPHIC EQUIPMENT  
 . CAMERAS  
 . BAKER-NUNN CAMERA  
 . BALLISTIC CAMERAS  
 . DELFT CAMERA  
 . DIFFRACTION LIMITED CAMERAS  
 . FAINT OBJECT CAMERA  
 . HIGH SPEED CAMERAS  
 . FRAMING CAMERAS  
 . I2S CAMERAS  
 . LALLEMAND CAMERAS  
 . MULTISPECTRAL BAND CAMERAS  
 . PANORAMIC CAMERAS  
 . PINHOLE CAMERAS  
 . SCHMIDT CAMERAS  
 . STREAK CAMERAS  
 . TELEVISION CAMERAS  
 . PHOTOGRAPHIC PROCESSING  
 EQUIPMENT  
 . PHOTOGRAPHIC RECTIFIERS  
 RT ∞ EQUIPMENT  
 LENSES  
 OPTICAL EQUIPMENT

### PHOTOGRAPHIC EQUIPMENT-(CONT.)

OPTICAL FILTERS  
 PHOTOGRAPHY  
 PHOTOMETERS  
 PROJECTORS

### PHOTOGRAPHIC FILM

GS PHOTOGRAPHIC FILM  
 . MICROFILMS  
 RT ∞ FILMS  
 MAGAZINES (SUPPLY CHAMBERS)  
 OPTICAL DATA STORAGE MATERIALS  
 OPTICAL FILTERS  
 PHOSPHORS  
 PHOTOGRAPHS  
 PHOTOGRAPHY  
 POLYMERIC FILMS  
 SABATIER REACTION

### PHOTOGRAPHIC MEASUREMENT

GS PHOTOGRAPHIC MEASUREMENT  
 . PHOTOGRAMMETRY  
 RT DOSIMETERS  
 ∞ MEASUREMENT  
 OPTICAL CORRECTION PROCEDURE  
 OPTICAL MEASUREMENT  
 PHOTOELASTIC ANALYSIS  
 PHOTOGRAPHY  
 PHOTOINTERPRETATION  
 PHOTOMETRY  
 PHOTORECONNAISSANCE  
 SPECTROMETERS

### PHOTOGRAPHIC RECORDING

GS RECORDING  
 . PHOTOGRAPHIC RECORDING  
 RT DATA RECORDING  
 HIGH SPEED PHOTOGRAPHY  
 HOLOGRAMMETRY  
 INTERMITTENCY HYPOTHESIS  
 PHOTOGRAPHS  
 PHOTOGRAPHY  
 RECORDING INSTRUMENTS

### PHOTOGRAPHIC TRACKING

GS TRACKING (POSITION)  
 . PHOTOGRAPHIC TRACKING  
 RT CINETHOODOLITES  
 OPTICAL TRACKING  
 PHOTOGRAPHY  
 SATELLITE TRACKING  
 SPACE DETECTION AND TRACKING  
 SYSTEM

### PHOTOGRAPHY

GS PHOTOGRAPHY  
 . AERIAL PHOTOGRAPHY  
 . ALL SKY PHOTOGRAPHY  
 . ASTRONOMICAL PHOTOGRAPHY  
 . AUTORADIOGRAPHY  
 . BLACK AND WHITE PHOTOGRAPHY  
 . CHRONOPHOTOGRAPHY  
 . CINEMATOGRAPHY  
 . CLOUD PHOTOGRAPHY  
 . COLOR PHOTOGRAPHY  
 . ELECTRO-OPTICAL PHOTOGRAPHY  
 . ELECTRON PHOTOGRAPHY  
 . FRACTOGRAPHY  
 . FRAME PHOTOGRAPHY  
 . HIGH SPEED PHOTOGRAPHY  
 . HOLOGRAPHY  
 . ACOUSTICAL HOLOGRAPHY  
 . MICROWAVE HOLOGRAPHY  
 . SPECKLE HOLOGRAPHY  
 . WHITE LIGHT HOLOGRAPHY  
 . INFRARED IMAGERY  
 . LUNAR PHOTOGRAPHY  
 . METRIC PHOTOGRAPHY  
 . MICROWAVE PHOTOGRAPHY  
 . MULTISPECTRAL PHOTOGRAPHY  
 . INFRARED PHOTOGRAPHY  
 . . . COLOR INFRARED PHOTOGRAPHY  
 . RADAR PHOTOGRAPHY  
 . ORTHOPHOTOGRAPHY  
 . PHOTOMICROGRAPHY  
 . ROCKET-BORNE PHOTOGRAPHY  
 . SHADOWGRAPH PHOTOGRAPHY  
 . SCHLIEREN PHOTOGRAPHY  
 . SPACEBORNE PHOTOGRAPHY  
 . SATELLITE-BORNE PHOTOGRAPHY  
 . SPECTROPHOTOGRAPHY  
 . STEREOSCOPY  
 . STEREOPHOTOGRAPHY  
 . STREAK PHOTOGRAPHY  
 . ULTRAVIOLET PHOTOGRAPHY

### PHOTOGRAPHY-(CONT.)

. ULTRAVIOLET PHOTOMETRY  
 . UNDERWATER PHOTOGRAPHY  
 . UROGRAPHY  
 RT BRIGHTNESS DISTRIBUTION  
 BRIGHTNESS TEMPERATURE  
 CAMERAS  
 CLOUD PHOTOGRAPHS  
 DARKROOMS  
 EARTH OBSERVATIONS (FROM SPACE)  
 EARTH RESOURCES  
 EVAPOROGRAPHY  
 EXPOSURE  
 GRAPHIC ARTS  
 HS-801 AIRCRAFT  
 ICE MAPPING  
 IMAGERY  
 IMAGING TECHNIQUES  
 LUNAR PHOTOGRAPHS  
 MAPPING  
 MARS PHOTOGRAPHS  
 MICROPHOTOGRAPHS  
 MULTISPECTRAL BAND CAMERAS  
 MULTISPECTRAL BAND SCANNERS  
 PANORAMIC CAMERAS  
 PHOTOGRAPHIC DEVELOPERS  
 PHOTOGRAPHIC EMULSIONS  
 PHOTOGRAPHIC EQUIPMENT  
 PHOTOGRAPHIC FILM  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOGRAPHIC PLATES  
 PHOTOGRAPHIC PROCESSING  
 PHOTOGRAPHIC PROCESSING  
 EQUIPMENT  
 PHOTOGRAPHIC RECORDING  
 PHOTOGRAPHIC RECTIFIERS  
 PHOTOGRAPHIC TRACKING  
 PHOTOGRAPHS  
 PHOTOINTERPRETATION  
 PHOTOLITHOGRAPHY  
 PHOTOMAPPING  
 PHOTOMAPS  
 PHOTOMASKS  
 PHOTOMECHANICAL EFFECT  
 PHOTORECONNAISSANCE  
 PINHOLE CAMERAS  
 PIXELS  
 PROJECTORS  
 RADIOGRAPHY  
 RAPID BALLISTICS IDENTIFICATION  
 REPRODUCTION (COPYING)  
 TIMBER INVENTORY  
 VIDEO TAPES  
 WAVE FRONT RECONSTRUCTION  
 XEROGRAPHY

### PHOTOINTERPRETATION

UF PHOTOGRAPH INTERPRETATION  
 RT AERIAL PHOTOGRAPHY  
 ∞ ANALYZING  
 CHANGE DETECTION  
 GROUND TRUTH  
 ∞ INTERPRETATION  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOGRAPHY  
 PHOTOMAPPING  
 PHOTORECONNAISSANCE  
 SEA TRUTH  
 SPATIAL FILTERING

### PHOTOMAPPING

GS MAPPING  
 . PHOTOMAPPING  
 RT AERIAL PHOTOGRAPHY  
 COASTAL ZONE COLOR SCANNER  
 COLOR PHOTOGRAPHY  
 DMSP SATELLITES  
 EARTH RESOURCES  
 GEODESY  
 GEOLOGY  
 GNOMONIC PROJECTION  
 HOLOGRAMMETRY  
 ICE MAPPING  
 MAPS  
 OCEAN COLOR SCANNER  
 PHOTOGEOLOGY  
 PHOTOGRAPHY  
 PHOTOINTERPRETATION  
 ROCKET-BORNE PHOTOGRAPHY  
 SATELLITE-BORNE PHOTOGRAPHY  
 SOIL MAPPING  
 SPACEBORNE PHOTOGRAPHY  
 THEMATIC MAPPING  
 THERMAL MAPPING  
 TOPOGRAPHY



**PHOTOMAPS**

GS MAPS  
 . **PHOTOMAPS**  
 RT AERIAL PHOTOGRAPHY  
 PHOTOGRAPHY  
 RELIEF MAPS  
 SATELLITE-BORNE PHOTOGRAPHY  
 SPACEBORNE PHOTOGRAPHY  
 THEMATIC MAPPING

**PHOTOMETERS**

UF MICROPHOTOMETERS  
 PHOTODETECTORS  
 GS MEASURING INSTRUMENTS  
 . OPTICAL MEASURING INSTRUMENTS  
 . . **PHOTOMETERS**  
 . . . ELECTROPHOTOMETERS  
 . . . ULTRAVIOLET SPECTROMETERS  
 . . . . TOTAL OZONE MAPPING  
 . . . . SPECTROMETER  
 . . . ULTRAVIOLET  
 . . . SPECTROPHOTOMETERS  
 . RADIATION MEASURING INSTRUMENTS  
 . . **PHOTOMETERS**  
 . . . ELECTROPHOTOMETERS  
 . . . ULTRAVIOLET SPECTROMETERS  
 . . . . TOTAL OZONE MAPPING  
 . . . . SPECTROMETER  
 . . . ULTRAVIOLET  
 . . . SPECTROPHOTOMETERS  
 OPTICAL EQUIPMENT  
 . OPTICAL MEASURING INSTRUMENTS  
 . . **PHOTOMETERS**  
 . . . ELECTROPHOTOMETERS  
 . . . ULTRAVIOLET SPECTROMETERS  
 . . . . TOTAL OZONE MAPPING  
 . . . . SPECTROMETER  
 . . . ULTRAVIOLET  
 . . . SPECTROPHOTOMETERS  
 RT BOLOMETERS  
 DENSITOMETERS  
 ELECTROPHOTOMETRY  
 ELLIPSOMETERS  
 HORIZON SCANNERS  
 INFRARED SPECTROPHOTOMETERS  
 MICRODENSITOMETERS  
 NEPHELOMETERS  
 OPTICAL MEASUREMENT  
 PHOTOCONDUCTORS  
 PHOTOELECTRIC CELLS  
 PHOTOGRAPHIC EQUIPMENT  
 PHOTOMETRY  
 PHOTOTRANSISTORS  
 POLARIMETERS  
 PYRANOMETERS  
 RADIOMETERS  
 REFLECTOMETERS  
 SPECTROMETERS  
 SPECTROPHOTOMETERS  
 TELEPHOTOMETRY  
 TRANSMISSOMETERS  
 ULTRAVIOLET DETECTORS

**PHOTOMETRY**

GS OPTICAL MEASUREMENT  
 . **PHOTOMETRY**  
 . . ASTRONOMICAL PHOTOMETRY  
 . . . STELLAR SPECTROPHOTOMETRY  
 . . . ELECTROPHOTOMETRY  
 . . . INFRARED PHOTOMETRY  
 . . . SPECTROPHOTOMETRY  
 . . . STELLAR SPECTROPHOTOMETRY  
 . . . TELEPHOTOMETRY  
 . . . ULTRAVIOLET PHOTOMETRY  
 . . . VISUAL PHOTOMETRY  
 RT CHEMICAL ANALYSIS  
 COLORIMETRY  
 ILLUMINATING  
 ∞ ILLUMINATION  
 LIGHT (VISIBLE RADIATION)  
 LUMINANCE  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOMETERS  
 POLARIMETRY  
 REFLECTANCE  
 SPECTROSCOPY  
 TRANSMITTANCE

**PHOTOMICROGRAPHS**

GS PHOTOGRAPHS  
 . **PHOTOMICROGRAPHS**  
 RT PHOTOMICROGRAPHY

**PHOTOMICROGRAPHY**

UF MICROGRAPHY

**PHOTOMICROGRAPHY-(CONT.)**

GS IMAGERY  
 . **PHOTOMICROGRAPHY**  
 PHOTOGRAPHY  
 . **PHOTOMICROGRAPHY**  
 RT BLACK AND WHITE PHOTOGRAPHY  
 ELECTRON MICROSCOPES  
 METALLOGRAPHY  
 MICROSCOPES  
 MICROSCOPY  
 MICROSTRUCTURE  
 PHOTOMICROGRAPHS

**PHOTORECONNAISSANCE**

GS IMAGERY  
 . **PHOTORECONNAISSANCE**  
 RECONNAISSANCE  
 . **PHOTORECONNAISSANCE**  
 RT AERIAL RECONNAISSANCE  
 AIRBORNE INTEGRATED  
 RECONNAISSANCE SYSTEM  
 BLACK AND WHITE PHOTOGRAPHY  
 DMSP SATELLITES  
 EARTH RESOURCES SURVEY AIRCRAFT  
 GROUND TRUTH  
 HS-801 AIRCRAFT  
 PHOTOGRAMMETRY  
 PHOTOGRAPHIC MEASUREMENT  
 PHOTOGRAPHY  
 PHOTOINTERPRETATION  
 SPECTRAL RECONNAISSANCE

**PHOTOTHERMOTROPISM**

USE ANISOTROPY  
 PHOTOTROPISM  
 TEMPERATURE EFFECTS

**PHUGOID OSCILLATIONS**

USE OSCILLATIONS  
 OSCILLATORS  
 PITCH (INCLINATION)

**PIAGGIO AIRCRAFT**

GS **PIAGGIO AIRCRAFT**  
 . P-166 AIRCRAFT  
 . PD-808 AIRCRAFT  
 RT ∞ AIRCRAFT

**PIAGGIO P-166 AIRCRAFT**

USE P-166 AIRCRAFT

**PIAGGIO-DOUGLAS PD-808 AIRCRAFT**

USE PD-808 AIRCRAFT

**PIASECKI AIRCRAFT**

GS **PIASECKI AIRCRAFT**  
 . VZ-8 AIRCRAFT  
 RT ∞ AIRCRAFT

**PICTURE ELEMENTS**

USE PIXELS

**PIEZOELECTRIC GAGES**

GS MEASURING INSTRUMENTS  
 . PRESSURE GAGES  
 . . **PIEZOELECTRIC GAGES**  
 TRANSDUCERS  
 . PIEZOELECTRIC TRANSDUCERS  
 . . **PIEZOELECTRIC GAGES**  
 . PIEZORESISTIVE TRANSDUCERS  
 . . **PIEZOELECTRIC GAGES**  
 RT PRESSURE SENSORS  
 STRAIN GAGES

**PIEZOMETERS**

GS MEASURING INSTRUMENTS  
 . PRESSURE GAGES  
 . . **PIEZOMETERS**  
 RT SEEPAGE

**PIEZORESISTIVE TRANSDUCERS**

GS TRANSDUCERS  
 . **PIEZORESISTIVE TRANSDUCERS**  
 . . PIEZOELECTRIC GAGES  
 RT PIEZOELECTRIC CRYSTALS  
 PIEZOELECTRICITY

**PIGGYBACK SYSTEMS**

RT AIR LAUNCHING  
 MULTISTAGE ROCKET VEHICLES  
 PAYLOAD MASS RATIO  
 PAYLOADS  
 ∞ SYSTEMS

**PILOT ERROR**

UF FLIGHT TECHNICAL ERROR  
 GS ERRORS  
 . **PILOT ERROR**  
 RT AIRCRAFT ACCIDENTS  
 COLLISIONS  
 CRASH LANDING  
 CRASHES  
 HUMAN FACTORS ENGINEERING  
 HUMAN PERFORMANCE  
 MIDAIR COLLISIONS  
 PILOT INDUCED OSCILLATION

**PILOT INDUCED OSCILLATION**

RT AERODYNAMIC STABILITY  
 AIRCRAFT CONTROL  
 AIRCRAFT STABILITY  
 CONTROL STABILITY  
 HIGH GAIN  
 LONGITUDINAL CONTROL  
 MAN MACHINE SYSTEMS  
 NONSTABILIZED OSCILLATION  
 PILOT ERROR  
 PILOT PERFORMANCE  
 SELF INDUCED VIBRATION  
 STABLE OSCILLATIONS  
 TRANSIENT OSCILLATIONS

**PILOT LANDING AID TELEVISION SYSTEM**

USE PLAT SYSTEM

**PILOT TRAINING**

GS EDUCATION  
 . **PILOT TRAINING**  
 RT ASTRONAUT TRAINING  
 AVIATION PSYCHOLOGY  
 EJECTION INJURIES  
 EJECTION TRAINING  
 FLIGHT SIMULATORS  
 FLIGHT TRAINING  
 SPACE FLIGHT TRAINING  
 TRAINING SIMULATORS

**PILOTLESS AIRCRAFT**

SN (CONVENTIONAL AIRCRAFT CONVERTED  
 FOR REMOTE CONTROL)  
 GS **PILOTLESS AIRCRAFT**  
 . DRONE AIRCRAFT  
 . . TARGET DRONE AIRCRAFT  
 . . . FIREBEE 2 TARGET DRONE  
 . . . AIRCRAFT  
 . . . JINDIVIK TARGET AIRCRAFT  
 RT ∞ AIRCRAFT  
 BALLOONS  
 DRONE VEHICLES  
 LIGHT AIRCRAFT  
 ∞ MILITARY AIRCRAFT  
 OBLIQUE WINGS  
 RECONNAISSANCE AIRCRAFT  
 REMOTELY PILOTED VEHICLES

**∞ PILOTS**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)*  
 RT AIRCRAFT PILOTS  
 AUTOMATIC PILOTS  
 PILOTS (PERSONNEL)  
 TEST PILOTS

**PILOTS (PERSONNEL)**

GS PERSONNEL  
 . FLYING PERSONNEL  
 . . **PILOTS (PERSONNEL)**  
 . . . AIRCRAFT PILOTS  
 . . . . TEST PILOTS  
 . . . OPERATORS (PERSONNEL)  
 . . . **PILOTS (PERSONNEL)**  
 . . . . AIRCRAFT PILOTS  
 . . . . . TEST PILOTS  
 RT ASTRONAUTS  
 COSMONAUTS  
 CREWS  
 FLIGHT CREWS  
 ∞ PILOTS

**PINTLES**

RT PIVOTS  
 RUDDERS  
 SHAFTS (MACHINE ELEMENTS)

**PIPE FLOW**

UF KIRCHHOFF-HELMHOLTZ FLOW  
 GS FLUID FLOW  
 . GAS FLOW

## PIPER AIRCRAFT

### PIPE FLOW-(CONT.)

PIPE FLOW  
PARALLEL FLOW  
PIPE FLOW  
RT CHANNEL FLOW  
CRITICAL FLOW  
LAMINAR FLOW  
LIQUID FLOW  
MASS FLOW  
MULTIPHASE FLOW  
OPEN CHANNEL FLOW  
ORIFICE FLOW  
PIPES (TUBES)  
PRESSURE GRADIENTS  
SINGLE-PHASE FLOW  
STEADY FLOW  
STEAM FLOW  
SUBCRITICAL FLOW  
SUPERCRITICAL FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW  
WATER FLOW  
WATER HAMMER  
WATER PRESSURE

### PIPER AIRCRAFT

GS LIGHT AIRCRAFT  
PIPER AIRCRAFT  
PA-34 SENECA AIRCRAFT  
RT AIRCRAFT  
GENERAL AVIATION AIRCRAFT

### PIPES (TUBES)

UF TUBING  
GS PIPES (TUBES)  
GAS PIPES  
U BENDS  
RT CASING  
CIRCULAR TUBES  
DUCTS  
FLUID FLOW  
HEADERS  
HOSES  
HYDRAULICS  
MANIFOLDS  
PIPE FLOW  
PIPELINES  
RISERS  
SIPHONS  
SYRINGES  
TUBES

### PIRANI GAGES

GS MEASURING INSTRUMENTS  
PRESSURE GAGES  
VACUUM GAGES  
PIRANI GAGES  
VACUUM APPARATUS  
VACUUM GAGES  
PIRANI GAGES  
RT HOT-WIRE FLOWMETERS  
IONIZATION GAGES  
KNUDSEN GAGES  
MCLEOD GAGES  
PRESSURE MEASUREMENT

### PISTON ENGINES

UF RECIPROCATING ENGINES  
GS ENGINES  
PISTON ENGINES  
DIESEL ENGINES  
FREE-PISTON ENGINES  
STIRLING ENGINES  
RT AIRCRAFT ENGINES  
AUTOMOBILE ENGINES  
EXTERNAL COMBUSTION ENGINES  
FUEL INJECTION  
INTERNAL COMBUSTION ENGINES  
PISTONS  
RECIPROCATION  
ROTARY ENGINES  
WANKEL ENGINES

### PISTONS

GS PISTONS  
MAGNETIC PISTONS  
RT COMBUSTION CHAMBERS  
ENGINE PARTS  
FREE-PISTON ENGINES  
INTERNAL COMBUSTION ENGINES  
PISTON ENGINES  
PISTON THEORY  
PLUNGERS  
RECIPROCATION

### PITCH

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
UF TONE  
RT FREQUENCIES  
PITCH (INCLINATION)  
PITCH (MATERIAL)

### PITCH (INCLINATION)

UF DAMPING IN PITCH  
PHUGOID OSCILLATIONS  
PITCH ANGLES  
GS ATTITUDE (INCLINATION)  
PITCH (INCLINATION)  
RT ANGLES (GEOMETRY)  
HEAVING  
LONGITUDINAL CONTROL  
LONGITUDINAL STABILITY  
MOTION  
PITCH  
ROLL  
ROTATION  
SLOPES  
STABILITY AUGMENTATION  
VARIABLE PITCH PROPELLERS  
YAW

### PITCH ANGLES

USE PITCH (INCLINATION)

### PITCH ATTITUDE CONTROL

USE LONGITUDINAL CONTROL

### PITCHING MOMENTS

GS MOMENTS  
STABILITY DERIVATIVES  
PITCHING MOMENTS  
RT AERODYNAMIC COEFFICIENTS  
LONGITUDINAL STABILITY  
MOMENTS OF INERTIA  
ROLLING MOMENTS  
TORQUE  
YAWING MOMENTS

### PITOT TUBES

UF PRESTON TUBES  
RT FLOW MEASUREMENT  
FLOWMETERS  
PRESSURE MEASUREMENT  
PROTUBERANCES  
SPEED INDICATORS  
STATIC PRESSURE  
TUBES  
VELOCITY MEASUREMENT  
VENTURI TUBES

### PIVOTED WING AIRCRAFT

USE TILT WING AIRCRAFT

### PIVOTS

UF TROCHOIDS  
RT BEARINGS  
GIMBALS  
HINGES  
PINTLES  
SHAFTS (MACHINE ELEMENTS)  
SUPPORTS  
SWIVELS

### PIXELS

UF PICTURE ELEMENTS  
GS IMAGERY  
PIXELS  
RT AERIAL PHOTOGRAPHY  
ELECTROPHOTOMETRY  
IMAGING TECHNIQUES  
PHOTOGRAPHS  
PHOTOGRAPHY  
REMOTE SENSING  
SATELLITE IMAGERY  
VIDICONS

### PLAN POSITION INDICATORS

UF PPI (POSITION INDICATORS)  
DISPLAY DEVICES  
GS POSITION INDICATORS  
PLAN POSITION INDICATORS  
RADARSCOPES  
PLAN POSITION INDICATORS  
MEASURING INSTRUMENTS  
INDICATING INSTRUMENTS  
POSITION INDICATORS  
PLAN POSITION INDICATORS

### PLAN POSITION INDICATORS-(CONT.)

RADAR EQUIPMENT  
RADARSCOPES  
PLAN POSITION INDICATORS

### PLANAR STRUCTURES

RT FLAT LAYERS  
FLAT PLATES  
FLAT SURFACES  
FLATNESS  
STRUCTURES  
SURFACE PROPERTIES

### PLANETARY BOUNDARY LAYER

GS BOUNDARY LAYERS  
PLANETARY BOUNDARY LAYER  
RT ATMOSPHERIC BOUNDARY LAYER

### PLANETARY ENTRY

USE ATMOSPHERIC ENTRY

### PLANETARY LANDING

SN (EXCLUDES LANDING ON THE PLANET  
EARTH)  
GS LANDING  
SPACECRAFT LANDING  
PLANETARY LANDING  
RT CRASH LANDING  
GLIDE LANDINGS  
HARD LANDING  
HORIZONTAL SPACECRAFT LANDING  
INTERPLANETARY FLIGHT  
LUNAR LANDING  
MARS LANDING  
ORBITAL MECHANICS  
ROVING VEHICLES  
SOFT LANDING  
WATER LANDING

### PLANFORMS

GS PLANFORMS  
CARET WINGS  
RECTANGULAR PLANFORMS  
RECTANGULAR PANELS  
RECTANGULAR PLATES  
RECTANGULAR WINGS  
SWEEPBACK TAIL SURFACES  
TRAPEZOIDAL TAIL SURFACES  
WING PLANFORMS  
CHANNEL WINGS  
INFINITE SPAN WINGS  
SWEEP FORWARD WINGS  
TRAPEZOIDAL WINGS  
SWEEPBACK WINGS  
ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
VARIABLE SWEEP WINGS  
RT BODIES  
CROSS SECTIONS  
GEOMETRY  
PROFILES  
SHAPES  
SURFACE GEOMETRY

### PLANISPHERES

GS MAPS  
ASTRONOMICAL MAPS  
PLANISPHERES  
RT ASTRONOMICAL COORDINATES  
CELESTIAL SPHERE  
CONSTELLATIONS  
POLAR COORDINATES

### PLASMA FLOW

USE MAGNETOHYDRODYNAMIC FLOW

### PLASMA INSTABILITY

USE MAGNETOHYDRODYNAMIC STABILITY

### PLASMA JET WIND TUNNELS

UF HYDRODYNAMIC TUNNELS  
GS TEST FACILITIES  
WIND TUNNELS  
HYPERSONIC WIND TUNNELS  
PLASMA JET WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
PLASMA JET WIND TUNNELS  
RT PLASMAS (PHYSICS)

### PLASMA SHEATHS

GS PARTICLES  
CHARGED PARTICLES  
PLASMA LAYERS

**PLASMA SHEATHS-(CONT.)**

... **PLASMA SHEATHS**  
 SHEATHS  
 . **PLASMA SHEATHS**  
 RT BLACKOUT (PROPAGATION)  
 BOUNDARY LAYER PLASMAS  
 ION SHEATHS  
 MAGNETOHYDRODYNAMIC SHEAR  
 HEATING  
 MAGNETOSHEATH  
 METALLIC PLASMAS  
 MISSILES  
 NONEQUILIBRIUM PLASMAS  
 PLASMAS (PHYSICS)  
 REENTRY COMMUNICATION  
 REENTRY EFFECTS  
 REENTRY PHYSICS  
 SYSTEM GENERATED  
 ELECTROMAGNETIC PULSES  
 UNCONTROLLED REENTRY  
 (SPACECRAFT)

**PLASMA SOUND WAVES**

USE MAGNETOHYDRODYNAMIC WAVES  
 PLASMA WAVES

**PLASMA STABILITY**

USE MAGNETOHYDRODYNAMIC STABILITY

**PLASTIC AIRCRAFT STRUCTURES**

GS AIRCRAFT STRUCTURES  
 . **PLASTIC AIRCRAFT STRUCTURES**  
 RT AIRCRAFT CONSTRUCTION MATERIALS  
 AIRCRAFT SURVIVABILITY  
 BORON-EPOXY COMPOSITES  
 GLASS FIBER REINFORCED PLASTICS  
 PLASTICS

**PLASTIC BODIES**

RT BEAMS (SUPPORTS)  
 ∞ BODIES  
 CYLINDRICAL BODIES  
 ELASTIC BODIES  
 ELASTIC PLATES  
 ELASTOPLASTICITY  
 PLASTIC PROPERTIES  
 PLASTIC SHELLS  
 RIGID STRUCTURES

**PLASTIC DEFORMATION**

UF LUDER BANDS  
 PLASTIC YIELDING  
 STRAIN SOFTENING  
 GS DEFORMATION  
 . **PLASTIC DEFORMATION**  
 RT ∞ BANDS  
 BENDING  
 BORDONI PEAKS  
 CREEP PROPERTIES  
 CREEP TESTS  
 ELASTIC DEFORMATION  
 ELONGATION  
 J INTEGRAL  
 PLANE STRAIN  
 SAINT VENANT PRINCIPLE  
 SHEAR CREEP  
 ∞ SLIP  
 STRAIN DISTRIBUTION  
 STRESS PROPAGATION  
 STRESS RELAXATION  
 STRESS-STRAIN RELATIONSHIPS  
 STRETCHING  
 STRUCTURAL STRAIN  
 SUPERPLASTICITY  
 TEMPERATURE INVERSIONS  
 TENSILE CREEP  
 TENSILE DEFORMATION  
 THERMOMECHANICAL TREATMENT  
 WARPAGE  
 WORK SOFTENING  
 YIELD STRENGTH

**PLASTIC YIELDING**

USE PLASTIC DEFORMATION

**PLAT SYSTEM**

UF PILOT LANDING AID TELEVISION  
 SYSTEM  
 GS COMMUNICATION EQUIPMENT  
 . **PLAT SYSTEM**  
 TELECOMMUNICATION  
 . **PLAT SYSTEM**  
 TELEVISION SYSTEMS  
 . **PLAT SYSTEM**  
 RT LANDING AIDS

**PLAT SYSTEM-(CONT.)**

∞ SYSTEMS

**PLATE (METAL)**

USE METAL PLATES

**∞ PLATFORMS**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)*  
 RT FLIGHT MECHANICS  
 FLOORS  
 FLYING PLATFORMS  
 GUIDANCE (MOTION)  
 INERTIAL PLATFORMS  
 LANDFORMS  
 LAUNCHING PADS  
 OFFSHORE PLATFORMS  
 SLABS  
 SOLETTAS  
 SPACE PLATFORMS  
 SPACE STATIONS  
 STABILIZED PLATFORMS  
 SUPPORTS  
 SYNCHRONOUS PLATFORMS

**PLAYBACKS**

RT MAGNETIC TAPES  
 ∞ RECORDERS  
 RECORDING  
 RECORDS  
 ∞ TAPES  
 VIDEO DISKS

**PNEUM CHAMBERS**

RT AIR INTAKES  
 ∞ CHAMBERS  
 DUCTS  
 EXHAUST SYSTEMS  
 FUEL SYSTEMS  
 INTAKE SYSTEMS  
 MANIFOLDS  
 ∞ WATER INTAKES

**PLEXIGLASS (TRADEMARK)**

USE POLYMETHYL METHACRYLATE

**PLIES**

USE LAYERS

**∞ PLOTS**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)*  
 RT CHARTS  
 DISPLAY DEVICES  
 PLOTTERS  
 PLOTTING  
 SITES

**PLOTTERS**

UF PLOTTING INSTRUMENTS  
 GS RECORDING INSTRUMENTS  
 . **PLOTTERS**  
 . . X-Y PLOTTERS  
 RT COMPUTER GRAPHICS  
 DIGITAL TO ANALOG CONVERTERS  
 DISPLAY DEVICES  
 NAVIGATION AIDS  
 PERIPHERAL EQUIPMENT (COMPUTERS)  
 ∞ PLOTS  
 PLOTTING  
 POSITION INDICATORS  
 PRINTERS  
 REMOTE CONSOLES

**PLOTTING**

RT ANALOG TO DIGITAL CONVERTERS  
 DISPLAY DEVICES  
 NAVIGATION  
 ∞ PLOTS  
 PLOTTERS  
 PRINTING  
 RECORDING

**PLOTTING INSTRUMENTS**

USE PLOTTERS

**PLUMES**

GS **PLUMES**  
 . ROCKET EXHAUST  
 RT CHIMNEYS  
 CONDENSATES  
 POLLUTION TRANSPORT

**PLUMES-(CONT.)**

SHOCK WAVES

**PLUTO REACTORS**

GS NUCLEAR REACTORS  
 . **PLUTO REACTORS**  
 RT NUCLEAR RAMJET ENGINES  
 NUCLEAR ROCKET ENGINES  
 SUPERSONIC LOW ALTITUDE MISSILE

**PLUVIOGRAPHS**

USE RAIN GAGES  
 RECORDING INSTRUMENTS

**PNEUMATIC CIRCUITS**

GS CIRCUITS  
 . **PNEUMATIC CIRCUITS**  
 PNEUMATIC EQUIPMENT  
 . **PNEUMATIC CIRCUITS**  
 RT FLUIDICS  
 VALVES

**PNEUMATIC CONTROL**

UF PNEUMATIC RESET  
 RT AUTOMATIC CONTROL  
 AUTOMATIC CONTROL VALVES  
 COMPRESSED GAS  
 ∞ CONTROL  
 CONTROL EQUIPMENT  
 CONTROL VALVES  
 CONTROLLERS  
 ELECTRONIC CONTROL  
 ENGINE CONTROL  
 FLUID POWER  
 FLUIDICS  
 HYDRAULIC CONTROL  
 REMOTE CONTROL

**PNEUMATIC EQUIPMENT**

GS **PNEUMATIC EQUIPMENT**  
 . GAS VALVES  
 . **PNEUMATIC CIRCUITS**  
 RT AIR BAG RESTRAINT DEVICES  
 COMPRESSED AIR  
 CUSHIONS  
 ∞ EQUIPMENT  
 FLUID AMPLIFIERS  
 FLUID POWER  
 FLUID SWITCHING ELEMENTS  
 FLUIDICS  
 GAS GENERATORS  
 GOLAY DETECTOR CELLS  
 INFLATABLE STRUCTURES  
 ∞ NETWORKS  
 SERVOCONTROL  
 SERVOMECHANISMS  
 SHOCK ABSORBERS  
 ∞ SYSTEMS  
 VALVES

**PNEUMATIC PROBES**

GS MEASURING INSTRUMENTS  
 . TEMPERATURE MEASURING  
 INSTRUMENTS  
 . . TEMPERATURE PROBES  
 . . **PNEUMATIC PROBES**  
 RT FLOW MEASUREMENT  
 HIGH TEMPERATURE GASES  
 MASS FLOW RATE  
 NOZZLE FLOW  
 PRESSURE MEASUREMENT

**PNEUMATIC RESET**

USE PNEUMATIC CONTROL

**PNEUMATICS**

GS FLUID MECHANICS  
 . **PNEUMATICS**  
 RT FLOW THEORY  
 FLUID POWER  
 FLUIDICS  
 GASES  
 ∞ HYDRAULICS

**PODS (EXTERNAL STORES)**

GS EXTERNAL STORES  
 . **PODS (EXTERNAL STORES)**  
 RT COWLINGS  
 EXTERNAL STORE SEPARATION  
 FUEL TANKS  
 NACELLES  
 WING-FUSELAGE STORES

## POHLHAUSEN METHOD

### POHLHAUSEN METHOD

UF POHLHAUSEN SOLUTION  
GS ANALYSIS (MATHEMATICS)  
... NUMERICAL ANALYSIS  
... APPROXIMATION  
... POHLHAUSEN METHOD  
RT LAMINAR BOUNDARY LAYER  
∞ METHODOLOGY  
VELOCITY DISTRIBUTION  
VISCOUS FLOW

### POHLHAUSEN SOLUTION

USE POHLHAUSEN METHOD

### POINTERS

USE DIALS

### POINTING CONTROL SYSTEMS

GS FLIGHT CONTROL  
... POINTING CONTROL SYSTEMS  
... ANNULAR SUSPENSION AND  
... POINTING SYSTEM  
RT ∞ CONTROL  
ENTRY GUIDANCE (STS)  
GUIDANCE (MOTION)  
SPACE FLIGHT  
SPACECRAFT CONTROL  
∞ SYSTEMS

### POISEUILLE FLOW

USE LAMINAR FLOW

### POISSON EQUATION

GS ANALYSIS (MATHEMATICS)  
... REAL VARIABLES  
... DIFFERENTIAL EQUATIONS  
... PARTIAL DIFFERENTIAL EQUATIONS  
... POISSON EQUATION  
RT CLASSICAL MECHANICS  
ELECTROSTATICS  
∞ EQUATIONS  
ISENTROPE  
LAPLACE EQUATION

### POLAR COORDINATES

GS COORDINATES  
... POLAR COORDINATES  
RT ASTRONOMICAL COORDINATES  
PLANISPHERES  
SMITH CHART  
SPHERICAL COORDINATES

### POLAR NAVIGATION

GS NAVIGATION  
... POLAR NAVIGATION  
RT AIR NAVIGATION  
CELESTIAL NAVIGATION  
DEAD RECKONING  
DIGITAL NAVIGATION  
INERTIAL NAVIGATION  
LORAN

### POLAR ORBITS

GS ORBITS  
... SPACECRAFT ORBITS  
... SATELLITE ORBITS  
... POLAR ORBITS  
RT CIRCULAR ORBITS  
EARTH ORBITS  
ELLIPTICAL ORBITS  
EQUATORIAL ORBITS  
LUNAR ORBITS  
LUNAR SATELLITES  
PLANETARY ORBITS  
SPACE STATION POLAR PLATFORMS  
TIROS SATELLITES  
TWENTY-FOUR HOUR ORBITS

### POLARIMETERS

UF SPECTROPOLARIMETERS  
GS MEASURING INSTRUMENTS  
... OPTICAL MEASURING INSTRUMENTS  
... POLARIMETERS  
OPTICAL EQUIPMENT  
... OPTICAL MEASURING INSTRUMENTS  
... POLARIMETERS  
RT CHEMICAL ANALYSIS  
ELLIPSOMETERS  
OPTICAL MEASUREMENT  
PHOTOMETERS  
POLARIMETRY  
POLARISCOPES  
POLARIZERS  
POLAROGRAPHY

### POLARIMETERS-(CONT.)

SOLAR MAXIMUM MISSION

### POLARIMETRY

GS OPTICAL MEASUREMENT  
... POLARIMETRY  
RT OPTICAL ACTIVITY  
OPTICAL MEASURING INSTRUMENTS  
PHOTOMETRY  
POLARIMETERS  
POLARIZATION (WAVES)

### POLARIS A1 MISSILE

GS MISSILES  
... BALLISTIC MISSILES  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A1 MISSILE  
... SURFACE TO SURFACE MISSILES  
... FLEET BALLISTIC MISSILES  
... POLARIS A1 MISSILE  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A1 MISSILE

### POLARIS A2 MISSILE

GS MISSILES  
... BALLISTIC MISSILES  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A2 MISSILE  
... SURFACE TO SURFACE MISSILES  
... FLEET BALLISTIC MISSILES  
... POLARIS A2 MISSILE  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A2 MISSILE

### POLARIS A3 MISSILE

GS MISSILES  
... BALLISTIC MISSILES  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A3 MISSILE  
... SURFACE TO SURFACE MISSILES  
... FLEET BALLISTIC MISSILES  
... POLARIS A3 MISSILE  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A3 MISSILE

### POLARIS MISSILES

GS MISSILES  
... BALLISTIC MISSILES  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A1 MISSILE  
... POLARIS A2 MISSILE  
... POLARIS A3 MISSILE  
... SURFACE TO SURFACE MISSILES  
... INTERMEDIATE RANGE BALLISTIC  
MISSILES  
... POLARIS MISSILES  
... POLARIS A1 MISSILE  
... POLARIS A2 MISSILE  
... POLARIS A3 MISSILE  
RT MULTISTAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES  
XM-33 ENGINE

### POLISH TS-11 AIRCRAFT

USE TS-11 AIRCRAFT

### POLLUTION TRANSPORT

UF ATMOSPHERIC LOADING  
RT AEROSOLS  
AIR POLLUTION  
ATMOSPHERIC CIRCULATION  
ATMOSPHERIC DIFFUSION  
COMBUSTION PRODUCTS  
DISPERSING  
ENVIRONMENT POLLUTION  
EXHAUST EMISSION  
EXHAUST GASES  
GAS TRANSPORT  
GASEOUS DIFFUSION  
GLOBAL AIR POLLUTION  
PLUMES

### POLLUTION TRANSPORT-(CONT.)

THERMAL POLLUTION  
TRACE CONTAMINANTS  
TRANSPORT PROPERTIES  
TRANSPORT THEORY  
WATER CIRCULATION  
WATER POLLUTION

### POLONIUM

GS CHEMICAL ELEMENTS  
... METALLOIDS  
... POLONIUM  
... POLONIUM ISOTOPES  
... POLONIUM 208  
... POLONIUM 209  
... POLONIUM 210  
RT METALS

### POLYMETHYL METHACRYLATE

UF LUCITE (TRADEMARK)  
PLEXIGLASS (TRADEMARK)  
GS PLASTICS  
... SYNTHETIC RESINS  
... POLYETHER RESINS  
... POLYMETHYL METHACRYLATE  
RESINS  
... SYNTHETIC RESINS  
... POLYETHER RESINS  
... POLYMETHYL METHACRYLATE

### POROUS AIRFOILS

USE POROUS BOUNDARY LAYER CONTROL

### POROUS BOUNDARY LAYER CONTROL

UF POROUS AIRFOILS  
GS BOUNDARY LAYER CONTROL  
... POROUS BOUNDARY LAYER CONTROL  
RT ∞ CONTROL  
CONVECTIVE FLOW  
EKMAN LAYER  
FREE CONVECTION  
HOLES (MECHANICS)  
MASS TRANSFER  
PERFORATED PLATES  
POROSITY  
WINGS

### POROUS WALLS

GS WALLS  
... POROUS WALLS  
RT ∞ DIFFUSERS

### ∞ PORTS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT AIRPORTS  
DRYDOCKS  
HARBORS  
PORTS (OPENINGS)  
SHIPYARDS  
WHARVES

### POSEIDON MISSILES

GS MISSILES  
... BALLISTIC MISSILES  
... POSEIDON MISSILES  
... SURFACE TO SURFACE MISSILES  
... FLEET BALLISTIC MISSILES  
... POSEIDON MISSILES  
RT BALLISTIC MISSILE SUBMARINES  
GUIDED MISSILE SUBMARINES  
SEA LAUNCHING

### ∞ POSITION

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT ATTITUDE (INCLINATION)  
POSITION (LOCATION)  
POSITION (TITLE)

### POSITION (LOCATION)

UF LOCALIZATION  
LOCATION  
GS POSITION (LOCATION)  
... SOLAR POSITION  
RT ALTITUDE  
ASTROLABES  
AZIMUTH  
BEARING (DIRECTION)  
COLLATING  
COLLOCATION  
COORDINATES

**POSITION (LOCATION)-(CONT.)**

DETECTION  
DISTANCE  
EPHEMERIDES  
EXPOSURE  
∞ FIXING  
GEOMETRY  
LATITUDE  
LONGITUDE  
MISALIGNMENT  
NAVIGATION  
ORBITAL POSITION ESTIMATION  
∞ ORIENTATION  
∞ POINTS  
POSITION ERRORS  
POSITION SENSING  
POSITIONING  
RADAR BEACONS  
SITES  
SOUND RANGING  
SPATIAL DISTRIBUTION  
SPHERICAL COORDINATES  
STATIONS  
SURVEYS  
TRACKING (POSITION)

**POSITION ERRORS**

GS ERRORS  
    . **POSITION ERRORS**  
    . BORESIGHT ERROR  
RT ASTROLABES  
    ERROR SIGNALS  
    NAVIGATION  
    OPTICAL CORRECTION PROCEDURE  
    ORBITAL POSITION ESTIMATION  
    POSITIONING  
    VELOCITY ERRORS

**POSITION INDICATORS**

GS DISPLAY DEVICES  
    . **POSITION INDICATORS**  
    . PLAN POSITION INDICATORS  
    . RADIO DIRECTION FINDERS  
    . SPACECRAFT POSITION INDICATORS  
    MEASURING INSTRUMENTS  
    . INDICATING INSTRUMENTS  
    . **POSITION INDICATORS**  
    . PLAN POSITION INDICATORS  
    . RADIO DIRECTION FINDERS  
    . SPACECRAFT POSITION INDICATORS  
RT AIRCRAFT INSTRUMENTS  
    ALTIMETERS  
    BEACONS  
    DISTANCE MEASURING EQUIPMENT  
    FLIGHT INSTRUMENTS  
    GLOBAL POSITIONING SYSTEM  
    HEAD-UP DISPLAYS  
    NAVIGATION AIDS  
    NAVIGATION INSTRUMENTS  
    PLOTTERS  
    POSITION SENSING  
    RANGE FINDERS  
    ROCKET-BORNE INSTRUMENTS  
    SEXTANTS  
    SOLAR COMPASSES  
    SOUND LOCALIZATION

**POSITION SENSING**

RT COMPUTER VISION  
    ELECTRO-OPTICS  
    POSITION (LOCATION)  
    POSITION INDICATORS  
    ROBOTICS

**POSITIONING DEVICES (MACHINERY)**

GS **POSITIONING DEVICES (MACHINERY)**  
    . BOOMS (EQUIPMENT)  
    . CAMS  
    . JIGS  
RT ∞ DEVICES  
    HOLDERS  
    JACKS (LIFTS)  
    ∞ MACHINERY  
    SLEWING

**POST BOOST PROPULSION SYSTEM**

RT ASCENT TRAJECTORIES  
    PROPULSION  
    PROPULSION SYSTEM CONFIGURATIONS  
    ROCKET ENGINES  
    SPACECRAFT PROPULSION  
    ∞ SYSTEMS  
    TRAJECTORY CONTROL

**POSTFLIGHT ANALYSIS**

RT ∞ ANALYZING  
    ∞ PERFORMANCE  
    POSTMISSION ANALYSIS (SPACECRAFT)

**POSTMISSION ANALYSIS (SPACECRAFT)**

RT FLIGHT TESTS  
    POSTFLIGHT ANALYSIS

**POTENTIAL FLOW**

UF IRRROTATIONAL FLOW  
GS FLUID FLOW  
    . **POTENTIAL FLOW**  
    . EQUIPOTENTIALS  
RT CARTAN SPACE  
    HEAT TRANSMISSION  
    INVISCID FLOW  
    VORTICITY

**POTENTIAL GRADIENTS**

GS GRADIENTS  
    . **POTENTIAL GRADIENTS**  
RT PRESSURE GRADIENTS  
    SPARK GAPS  
    TEMPERATURE GRADIENTS

**POTENTIAL THEORY**

RT DIFFERENTIAL EQUATIONS  
    JACOBI INTEGRAL  
    LENNARD-JONES POTENTIAL  
    ∞ POTENTIAL  
    STREAM FUNCTIONS (FLUIDS)  
    ∞ THEORIES

**POTENTIOMETERS (INSTRUMENTS)**

GS MEASURING INSTRUMENTS  
    . **POTENTIOMETERS (INSTRUMENTS)**  
RT BOLOMETERS  
    ELECTRIC POTENTIAL  
    ELECTRICAL MEASUREMENT  
    ELECTROMETERS  
    ∞ POTENTIOMETERS  
    THERMOCOUPLE PYROMETERS  
    THERMOCOUPLES  
    VOLT METERS

**POTETZ AIRCRAFT**

RT ∞ AIRCRAFT

**∞ POWER**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT ELECTRIC GENERATORS  
    FLUID POWER  
    FLUX (RATE)  
    FLUX DENSITY  
    HORSEPOWER  
    RESOLUTION  
    THRUST

**POWERED LIFT AIRCRAFT**

RT ∞ AIRCRAFT  
    EXTERNALLY BLOWN FLAPS  
    SHORT TAKEOFF AIRCRAFT  
    VERTICAL TAKEOFF AIRCRAFT

**PPI (POSITION INDICATORS)**

USE PLAN POSITION INDICATORS

**PRANDTL NUMBER**

GS RATIOS  
    . DIMENSIONLESS NUMBERS  
    . **PRANDTL NUMBER**  
RT FORCED CONVECTION  
    GRASHOF NUMBER  
    HEAT TRANSFER  
    INVISCID FLOW  
    MOMENTUM TRANSFER  
    NUSSELT NUMBER  
    PECLET NUMBER  
    REYNOLDS NUMBER  
    SCHMIDT NUMBER  
    THERMODYNAMIC PROPERTIES  
    VISCOUS FLOW

**PRANDTL-MEYER EXPANSION**

GS EXPANSION  
    . **PRANDTL-MEYER EXPANSION**  
RT BLASIUS EQUATION  
    FALKNER-SKAN EQUATION  
    FLOW DEFLECTION  
    LAMINAR FLOW  
    METHOD OF CHARACTERISTICS

**PRANDTL-MEYER EXPANSION-(CONT.)**

NEWTON PRESSURE LAW  
SUPERSONIC FLOW  
TWO DIMENSIONAL FLOW

**PRECESSION**

GS GYRATION  
    . **PRECESSION**  
    . LARMOR PRECESSION  
    . PROTON PRECESSION  
    . QUENCHING (ATOMIC PHYSICS)  
RT EARTH ORIENTATION  
    GYROSCOPES  
    GYROSCOPIC STABILITY  
    LARMOR RADIUS  
    LIBRATION  
    MUON SPIN ROTATION  
    NUTATION  
    POLAR WANDERING (GEOLOGY)  
    ROTATION  
    VORTEX PRECESSION

**PRECOOLING**

GS COOLING  
    . **PRECOOLING**  
RT REGENERATIVE COOLING

**PREDICTOR-CORRECTOR METHODS**

GS ANALYSIS (MATHEMATICS)  
    . NUMERICAL ANALYSIS  
    . APPROXIMATION  
    . **PREDICTOR-CORRECTOR METHODS**  
    . ITERATION  
    . **PREDICTOR-CORRECTOR METHODS**  
RT DIFFERENTIAL EQUATIONS  
    ITERATIVE SOLUTION

**PREFIRING TESTS**

GS ENGINE TESTS  
    . **PREFIRING TESTS**  
RT CAPTIVE TESTS  
    CHECKOUT  
    GROUND TESTS  
    PREFLIGHT ANALYSIS  
    PRELAUNCH TESTS  
    ROCKET ENGINE DESIGN  
    SPACE VEHICLE CHECKOUT PROGRAM  
    STATIC TESTS  
    TEST FIRING  
    TEST STANDS  
    ∞ TESTS

**PREHEATING**

USE HEATING

**PREMIXED FLAMES**

GS FLAMES  
    . **PREMIXED FLAMES**  
RT CARBURETORS  
    FLAME PROPAGATION  
    GAS MIXTURES  
    MIXING  
    PREMIXING

**PREMIXING**

GS MIXING  
    . **PREMIXING**  
RT FUEL-AIR RATIO  
    FUELS  
    GAS MIXTURES  
    HOMOGENIZING  
    IGNITION  
    JET MIXING FLOW  
    PREMIXED FLAMES  
    SPRAYING

**PREPROCESSING**

RT DATA PROCESSING  
    DATA REDUCTION  
    IMAGE PROCESSING

**PRESSURE**

UF SURFACE PRESSURE  
GS **PRESSURE**  
    . ATMOSPHERIC PRESSURE  
    . BASE PRESSURE  
    . BLOOD PRESSURE  
    . DIASTOLIC PRESSURE  
    . HYPERTENSION  
    . HYPOTENSION  
    . LOWER BODY NEGATIVE PRESSURE  
    . SYSTOLIC PRESSURE  
    . CRITICAL PRESSURE  
    . DENSIFICATION

## PRESSURE DEPENDENCE

### PRESSURE-(CONT.)

. DIFFERENTIAL PRESSURE  
 . DYNAMIC PRESSURE  
 . FLUID PRESSURE  
 . WATER PRESSURE  
 . GAS PRESSURE  
 . GEOPRESSURE  
 . HIGH PRESSURE  
 . INLET PRESSURE  
 . INTERNAL PRESSURE  
 . INTRACRANIAL PRESSURE  
 . INTRAOCULAR PRESSURE  
 . ISOSTATIC PRESSURE  
 . LOW PRESSURE  
 . HIGH ALTITUDE PRESSURE  
 . MIDDLE EAR PRESSURE  
 . OVERPRESSURE  
 . PARTIAL PRESSURE  
 . OXYGEN TENSION  
 . . . HYPOXEMIA  
 . PLASMA PRESSURE  
 . RADIATION PRESSURE  
 . ELECTRON PRESSURE  
 . LUMENS  
 . LUMINOUS INTENSITY  
 . . . ILLUMINANCE  
 . . . LUMINANCE  
 . SOUND PRESSURE  
 . STAGNATION PRESSURE  
 . STATIC PRESSURE  
 . HYDROSTATIC PRESSURE  
 . SUPERCRITICAL PRESSURES  
 . THRUST CHAMBER PRESSURE  
 . TRANSIENT PRESSURES  
 . TRANSITION PRESSURE  
 . VACUUM  
 . HIGH VACUUM  
 . LOW VACUUM  
 . ULTRAHIGH VACUUM  
 . VAPOR PRESSURE  
 . WALL PRESSURE  
 . WIND PRESSURE  
 RT BARORECEPTORS  
 BLAST LOADS  
 CENTER OF PRESSURE  
 COMPRESSING  
 EAR PRESSURE TEST  
 ELASTIC WAVES  
 ENVIRONMENTS  
 ∞ FORCE  
 FUEL TANK PRESSURIZATION  
 GIBBS-HELMHOLTZ EQUATIONS  
 HEAD (FLUID MECHANICS)  
 HIGH PRESSURE OXYGEN  
 IMPACT  
 ISOBARS (PRESSURE)  
 LOADS (FORCES)  
 NEWTON PRESSURE LAW  
 OSMOSIS  
 PRESSURE BREATHING  
 PRESSURE BROADENING  
 PRESSURE CHAMBERS  
 PRESSURE DISTRIBUTION  
 PRESSURE DRAG  
 ∞ PRESSURE DROP  
 PRESSURE EFFECTS  
 PRESSURE GAGES  
 PRESSURE GRADIENTS  
 PRESSURE HEADS  
 PRESSURE ICE  
 PRESSURE MEASUREMENT  
 PRESSURE MODULATOR RADIOMETERS  
 PRESSURE OSCILLATIONS  
 PRESSURE PULSES  
 PRESSURE RATIO  
 PRESSURE RECORDERS  
 PRESSURE RECOVERY  
 PRESSURE REDUCTION  
 PRESSURE SENSORS  
 PRESSURE SUITS  
 PRESSURE VESSEL DESIGN  
 PRESSURE VESSELS  
 PRESSURE WELDING  
 PRESSURIZED CABINS  
 PRESSURIZED WATER REACTORS  
 PRESSURIZING  
 TEMPERATURE INVERSIONS  
 VACUUM CHAMBERS  
 WEIGHT (MASS)

### PRESSURE DEPENDENCE

RT BURNING RATE  
 HYDROSTATIC PRESSURE  
 REACTION KINETICS

### PRESSURE DISTRIBUTION

UF PRESSURE FIELDS  
 GS DISTRIBUTION (PROPERTY)  
 . PRESSURE DISTRIBUTION  
 RT AERODYNAMIC COEFFICIENTS  
 AERODYNAMIC LOADS  
 AERODYNAMIC STABILITY  
 CENTER OF PRESSURE  
 DIFFERENTIAL PRESSURE  
 ∞ DISTRIBUTION  
 FIELD THEORY (PHYSICS)  
 INFLUENCE COEFFICIENT  
 INTERNAL PRESSURE  
 ISOBARS (PRESSURE)  
 LIFT  
 LOADING MOMENTS  
 LOADS (FORCES)  
 MANOMETERS  
 MASS DISTRIBUTION  
 MOMENT DISTRIBUTION  
 NEWTON PRESSURE LAW  
 PRESSURE  
 ∞ PRESSURE DROP  
 SHOCK WAVE PROFILES  
 SPANWISE BLOWING  
 STATIC LOADS  
 STRUCTURAL DESIGN CRITERIA  
 THEODORSEN TRANSFORMATION  
 THRUST DISTRIBUTION  
 VELOCITY DISTRIBUTION  
 VERTICAL DISTRIBUTION  
 WALL PRESSURE

### PRESSURE DRAG

GS DYNAMIC CHARACTERISTICS  
 . DRAG  
 . PRESSURE DRAG  
 . . . SUPERSONIC DRAG  
 . . . WAVE DRAG  
 . . . INTERFERENCE DRAG  
 RT AERODYNAMIC DRAG  
 FRICTION DRAG  
 PRESSURE

### ∞ PRESSURE DROP

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT FLUID POWER  
 FRICTION  
 GAS FLOW  
 HEAD FLOW  
 INLET FLOW  
 PRESSURE  
 PRESSURE DISTRIBUTION  
 PRESSURE GRADIENTS  
 PRESSURE OSCILLATIONS  
 PRESSURE REDUCTION  
 TWO PHASE FLOW

### PRESSURE EFFECTS

RT BETA FACTOR  
 COMPRESSIBILITY EFFECTS  
 ∞ EFFECTS  
 JET BLAST EFFECTS  
 LOADS (FORCES)  
 NONISOTHERMAL PROCESSES  
 PRESSURE  
 SUCTION  
 TEMPERATURE EFFECTS  
 TEMPERATURE INVERSIONS  
 TRANSITION PRESSURE  
 VACUUM EFFECTS  
 WIND EFFECTS

### PRESSURE FIELDS

USE PRESSURE DISTRIBUTION

### PRESSURE GAGES

UF BOMBS (PRESSURE GAGES)  
 GS MEASURING INSTRUMENTS  
 . PRESSURE GAGES  
 . . BAROMETERS  
 . . MANOMETERS  
 . . OSMOMETERS  
 . . PIEZOELECTRIC GAGES  
 . . PIEZOMETERS  
 . . VACUUM GAGES  
 . . . IONIZATION GAGES  
 . . . ALPHATRONS  
 . . . BAYARD-ALPERT IONIZATION  
 GAGES  
 . . . PENNING GAGES  
 . . . PHILIPS IONIZATION GAGES  
 . . . KNUDSEN GAGES

### PRESSURE GAGES-(CONT.)

. . . MCLEOD GAGES  
 . . . PIRANI GAGES  
 RT ∞ BOMBS  
 BOURDON TUBES  
 FLOWMETERS  
 HYPSONOMETERS  
 PRESSURE  
 SHOCK MEASURING INSTRUMENTS  
 STRAIN GAGE ACCELEROMETERS  
 STRAIN GAGE BALANCES  
 STRAIN GAGES  
 WEIGHT INDICATORS

### PRESSURE GRADIENTS

GS GRADIENTS  
 . PRESSURE GRADIENTS  
 RT ATMOSPHERIC PRESSURE  
 BATHYTHERMOGRAPHS  
 CRITICAL FLOW  
 DIFFERENTIAL PRESSURE  
 FLUID BOUNDARIES  
 FLUID FLOW  
 FRICTION FACTOR  
 GEOPRESSURE  
 HYDRODYNAMICS  
 HYDROSTATICS  
 INLET PRESSURE  
 ISOBARS (PRESSURE)  
 KNUDSEN FLOW  
 LIQUID FLOW  
 LIQUID-LIQUID INTERFACES  
 LIQUID-VAPOR INTERFACES  
 MULTIPHASE FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 POTENTIAL GRADIENTS  
 PRESSURE  
 ∞ PRESSURE DROP  
 RANKINE-HUGONOT RELATION  
 STEADY FLOW  
 STEAM FLOW  
 SUBCRITICAL FLOW  
 SUCTION  
 SUPERCRITICAL FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW  
 VENTURI TUBES

### PRESSURE HEADS

UF HEAD (PRESSURE)  
 GS FLUID FLOW  
 . HEAD (FLUID MECHANICS)  
 . PRESSURE HEADS  
 RT CENTER OF PRESSURE  
 ELEVATION  
 ∞ HYDRAULICS  
 HYDRODYNAMICS  
 HYDROSTATIC PRESSURE  
 HYDROSTATICS  
 LIQUID FLOW  
 PRESSURE

### PRESSURE MEASUREMENT

UF TONOMETRY  
 GS MECHANICAL MEASUREMENT  
 . PRESSURE MEASUREMENT  
 RT BAROMETERS  
 BOURDON TUBES  
 DIFFERENTIAL PRESSURE  
 FLOW MEASUREMENT  
 FLOWMETERS  
 IONIZATION GAGES  
 KNUDSEN GAGES  
 MANOMETERS  
 MCLEOD GAGES  
 ∞ MEASUREMENT  
 NOISE METERS  
 PHILIPS IONIZATION GAGES  
 PIRANI GAGES  
 PITOT TUBES  
 PNEUMATIC PROBES  
 PRESSURE  
 VACUUM  
 VACUUM GAGES  
 VELOCITY  
 VELOCITY MEASUREMENT  
 VENTURI TUBES  
 WEIGHT INDICATORS  
 WIND TUNNEL CALIBRATION  
 WIND TUNNEL TESTS

### PRESSURE OSCILLATIONS

GS OSCILLATIONS  
 . PRESSURE OSCILLATIONS

**PRESSURE OSCILLATIONS-(CONT.)**

RT ACOUSTIC FREQUENCIES  
COMBUSTION STABILITY  
FLAME PROPAGATION  
PRESSURE  
∞ PRESSURE DROP  
SOUTHERN OSCILLATION  
TURBULENT FLOW

**PRESSURE PROBES**

USE PRESSURE SENSORS

**PRESSURE PULSES**

GS PULSES  
PRESSURE PULSES  
RT BLAST LOADS  
FLAME PROPAGATION  
PRESSURE  
SHOCK WAVES

**PRESSURE RATIO**

GS RATIOS  
PRESSURE RATIO  
RT FUEL-AIR RATIO  
LIFT DRAG RATIO  
MASS RATIOS  
PAYLOAD MASS RATIO  
PRESSURE  
PROPELLANT MASS RATIO  
STRESS RATIO  
THRUST-WEIGHT RATIO

**PRESSURE RECORDERS**

GS RECORDING INSTRUMENTS  
PRESSURE RECORDERS  
RT PRESSURE

**PRESSURE RECOVERY**

RT ∞ DIFFUSERS  
EXPLOSIVE DECOMPRESSION  
FLUID AMPLIFIERS  
INLET PRESSURE  
PRESSURE  
∞ RECOVERY

**PRESSURE REDUCTION**

UF BLEED-OFF  
DECOMPRESSION  
DEFLATING  
DEPRESSURIZATION  
GS PRESSURE REDUCTION  
EXPLOSIVE DECOMPRESSION  
RT ∞ BLEEDING  
COMPRESSING  
GAS EXPANSION  
INFLATING  
PRESSURE  
∞ PRESSURE DROP  
∞ REDUCTION

**PRESSURE REGULATORS**

GS CONTROL EQUIPMENT  
PRESSURE REGULATORS  
REGULATORS  
PRESSURE REGULATORS  
VALVES  
AUTOMATIC CONTROL VALVES  
PRESSURE REGULATORS  
RT CONTROLLERS  
FLOW REGULATORS  
FUEL TANK PRESSURIZATION  
OXYGEN REGULATORS  
PRESSURIZING  
RELIEF VALVES

**PRESSURE SENSORS**

UF PRESSURE PROBES  
PRESSURE TRANSDUCERS  
GS TRANSDUCERS  
PRESSURE SENSORS  
BOURDON TUBES  
RT ELECTROACOUSTIC WAVES  
PIEZOELECTRIC GAGES  
PRESSURE  
QUARTZ TRANSDUCERS  
∞ RAKES  
SHOCK WAVE GENERATORS  
TRANSIENT PRESSURES  
TRANSIENT RESPONSE  
ULTRASONIC WAVE TRANSDUCERS

**PRESSURE TRANSDUCERS**

USE PRESSURE SENSORS

**PRESSURE VESSEL DESIGN**

GS STRUCTURAL DESIGN  
PRESSURE VESSEL DESIGN  
RT ∞ DESIGN  
PERFORATED SHELLS  
PRESSURE  
SHELLS (STRUCTURAL FORMS)

**PRESSURE WAVES**

USE ELASTIC WAVES

**PRESSURIZING**

GS PRESSURIZING  
FUEL TANK PRESSURIZATION  
RT ACCUMULATORS  
DENSIFICATION  
EXPULSION  
EXPULSION BLADDERS  
GAS GENERATORS  
GAS INJECTION  
INFLATING  
PRESSURE  
PRESSURE REGULATORS  
STIMULATION

**PRESTON TUBES**

USE PITOT TUBES  
SPEED INDICATORS

**PRETESTS**

USE TESTS

**PRIMITIVE EQUATIONS**

RT ATMOSPHERIC BOUNDARY LAYER  
CLIMATOLOGY  
∞ EQUATIONS  
EULER EQUATIONS OF MOTION  
FLUID DYNAMICS  
∞ MATHEMATICS

**PRINCETON SAILWINGS**

USE SAILWINGS

**PRIVATE AIRCRAFT**

USE GENERAL AVIATION AIRCRAFT

**PROJECTILES**

GS PROJECTILES  
HYPERVELOCITY PROJECTILES  
PRECISION GUIDED PROJECTILES  
SABOT PROJECTILES  
RT AMMUNITION  
BALLISTICS  
BOMBS (ORDNANCE)  
CARTRIDGES  
FINNED BODIES  
GUNFIRE  
GUNS (ORDNANCE)  
INCENDIARY AMMUNITION  
NUCLEAR WEAPONS  
PYROTECHNICS  
SHAPED CHARGES  
SHRAPNEL  
TERMINAL BALLISTICS  
TERRADYNAMICS  
WARHEADS  
WEAPONS

**PROJECTORS**

SN (LIGHT AND IMAGE)  
RT BEACONS  
ILLUMINATING  
LUMINAIRES  
MOTION PICTURES  
PHOTOGRAMMETRY  
PHOTOGRAPHIC EQUIPMENT  
PHOTOGRAPHY  
PRINTERS  
∞ PROJECTION  
SEARCHLIGHTS

**PROLATENESS**

RT SHAPES

**PRONY SERIES**

GS ANALYSIS (MATHEMATICS)  
CALCULUS  
SERIES (MATHEMATICS)  
PRONY SERIES  
REAL VARIABLES  
SERIES (MATHEMATICS)  
PRONY SERIES

**PROP-FAN TECHNOLOGY**

RT PROPELLER BLADES  
PROPELLER EFFICIENCY  
PROPELLER FANS  
TURBOPROP ENGINES

**PROPELLANT ACTUATED DEVICES**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT EJECTION SEATS  
EXPLOSIVE DEVICES  
PROPELLANT ACTUATED INSTRUMENTS  
ROCKET ENGINES

**PROPELLANT ADDITIVES**

GS ADDITIVES  
PROPELLANT ADDITIVES  
PROPELLANT BINDERS  
SOLID ROCKET BINDERS  
RT ANTICING ADDITIVES  
ANTIOXIDANTS  
CATALYSTS  
COMPOSITE PROPELLANTS  
CORROSION PREVENTION  
GELLED PROPELLANTS  
INHIBITORS  
PLASTICIZERS  
STORABLE PROPELLANTS

**PROPELLANT COMBUSTION**

GS COMBUSTION  
PROPELLANT COMBUSTION  
SOLID PROPELLANT COMBUSTION  
SOLID PROPELLANT IGNITION  
RT AXIAL MODES  
COMBUSTION EFFICIENCY  
COMBUSTION STABILITY  
EROSIVE BURNING  
FUEL COMBUSTION  
HYDROCARBON COMBUSTION  
IGNITION  
METAL COMBUSTION  
VELOCITY COUPLING

**PROPELLANT EXPLOSIONS**

RT DETONATION  
IMPLOSIONS  
ROCKET ENGINES

**PROPELLANT GRAINS**

RT BURNING RATE  
GRAINS  
SOLID PROPELLANTS  
SOLID ROCKET PROPELLANTS

**PROPELLANT MASS RATIO**

GS RATIOS  
MASS RATIOS  
PROPELLANT MASS RATIO  
RT PAYLOAD MASS RATIO  
PRESSURE RATIO  
PROPULSION SYSTEM PERFORMANCE  
PROPULSIVE EFFICIENCY  
SPECIFIC IMPULSE  
STAGE SEPARATION

**PROPELLANT OXIDIZERS**

USE ROCKET OXIDIZERS

**PROPELLANT PROPERTIES**

GS PROPELLANT PROPERTIES  
PROPELLANT SENSITIVITY  
PROPELLANT STORABILITY  
RT CHEMICAL PROPERTIES  
ELASTIC PROPERTIES  
MECHANICAL PROPERTIES  
∞ PHYSICAL PROPERTIES  
∞ PROPERTIES  
THERMODYNAMIC PROPERTIES

**PROPELLANT SPRAYS**

RT FUEL INJECTION  
FUEL SPRAYS  
LIQUID INJECTION  
LIQUID ROCKET PROPELLANTS  
SPRAYERS

**PROPELLANTS**

GS PROPELLANTS  
COLLOIDAL PROPELLANTS  
DOUBLE BASE PROPELLANTS  
DOUBLE BASE ROCKET  
PROPELLANTS

## PROPELLER BLADES

### PROPELLANTS-(CONT.)

- . GELLED PROPELLANTS
- . GELLED ROCKET PROPELLANTS
- . GUN PROPELLANTS
- . HIGH ENERGY PROPELLANTS
- . DOMINO PROPELLANTS
- . HIGH TEMPERATURE PROPELLANTS
- . HYBRID PROPELLANTS
- . HYDRAZINE NITROFORM
- . HYDROGEN AZIDES
- . NITRASOL EXPLOSIVES
- . PENTOLITE
- . RDX
- . ROCKET PROPELLANTS
- . GASEOUS ROCKET PROPELLANTS
- . LIQUID ROCKET PROPELLANTS
- . CRYOGENIC ROCKET PROPELLANTS
- . GELLED ROCKET PROPELLANTS
- . HYPERGOLIC ROCKET PROPELLANTS
- . MONOPROPELLANTS
- . AEROZINE
- . RP-1 ROCKET PROPELLANTS
- . SLURRY PROPELLANTS
- . SLUSH HYDROGEN
- . NITRAMINE PROPELLANTS
- . SOLID ROCKET PROPELLANTS
- . DOUBLE BASE ROCKET PROPELLANTS
- . METAL PROPELLANTS
- . TAGN
- . TATB
- . SOLID PROPELLANTS
- . CASE BONDED PROPELLANTS
- . COMPOSITE PROPELLANTS
- . NITRAMINE PROPELLANTS
- . PLASTIC PROPELLANTS
- . SOLID ROCKET PROPELLANTS
- . DOUBLE BASE ROCKET PROPELLANTS
- . HMX
- . HTPB PROPELLANTS
- . METAL PROPELLANTS
- . STORABLE PROPELLANTS
- . TETRYL

RT AMMUNITION  
ASCENT PROPULSION SYSTEMS  
AUXILIARY PROPULSION  
BALLISTICS  
BURNING RATE  
CARTRIDGES  
CHEMICAL FUELS  
∞ ENERGY SOURCES  
EXPLOSIVES  
FUEL TANKS  
FUELS  
FULMINATES  
GUNS (ORDNANCE)  
INCENDIARY AMMUNITION  
∞ POWER SUPPLIES  
PROPULSION  
SPACECRAFT POWER SUPPLIES  
SPACECRAFT PROPULSION  
SPECIFIC IMPULSE  
TORPEDOES

### PROPELLER BLADES

GS AIRFOILS  
RT PROPELLER BLADES  
∞ BLADES  
FAN BLADES  
FEATHERING  
PROP-FAN TECHNOLOGY  
PROPELLERS  
ROTARY WINGS  
SYNCHROPHASING

### PROPELLER DRIVE

GS MECHANICAL DRIVES  
PROPELLER DRIVE  
RT HELICOPTER PROPELLER DRIVE  
CONTRAROTATING PROPELLERS  
MARINE PROPULSION  
PROPELLERS  
UNDERWATER PROPULSION

### PROPELLER EFFICIENCY

GS EFFICIENCY  
PROPULSIVE EFFICIENCY  
PROPELLER EFFICIENCY  
RT CONTRAROTATING PROPELLERS  
POWER EFFICIENCY  
PROP-FAN TECHNOLOGY  
PROPELLERS

### PROPELLER FANS

GS PROPELLERS  
RT PROPELLER FANS  
DUCTED FANS  
∞ FANS  
LIFT FANS  
PROP-FAN TECHNOLOGY

### PROPELLER NOISE

GS ELASTIC WAVES  
SOUND WAVES  
NOISE (SOUND)  
AERODYNAMIC NOISE  
PROPELLER NOISE  
AIRCRAFT NOISE  
RT PROPELLER NOISE  
ACOUSTIC RETROFITTING  
AEROACOUSTICS  
BLADE SLAP NOISE  
ENGINE NOISE  
MUFFLERS  
NOISE INTENSITY  
NOISE MEASUREMENT  
NOISE PREDICTION (AIRCRAFT)  
NOISE REDUCTION  
SOUND FIELDS  
SOUND TRANSMISSION

### PROPELLER SLIPSTREAMS

GS WAKES  
AIRCRAFT WAKES  
SLIPSTREAMS  
PROPELLER SLIPSTREAMS  
TURBULENT WAKES  
SLIPSTREAMS  
RT PROPELLER SLIPSTREAMS  
INTERFERENCE DRAG

### PROPELLERS

GS PROPELLERS  
CONTRAROTATING PROPELLERS  
PROPELLER FANS  
SHROUDED PROPELLERS  
TILTED PROPELLERS  
VARIABLE PITCH PROPELLERS  
RT ACTUATOR DISKS  
FEATHERING  
PROPELLER BLADES  
PROPELLER DRIVE  
PROPELLER EFFICIENCY  
SHIPS

### PROPORTIONAL CONTROL

GS AUTOMATIC CONTROL  
PROPORTIONAL CONTROL  
RT ∞ CONTROL  
CONTROL EQUIPMENT  
FEEDBACK CONTROL  
OFF-ON CONTROL  
SERVOCONTROL

### PROPULSION

GS PROPULSION  
ASCENT PROPULSION SYSTEMS  
AUXILIARY PROPULSION  
CHEMICAL PROPULSION  
HYBRID PROPULSION  
DESCENT PROPULSION SYSTEMS  
ELECTRIC PROPULSION  
ELECTROMAGNETIC PROPULSION  
ELECTROSTATIC PROPULSION  
ION PROPULSION  
LASER PROPULSION  
PLASMA PROPULSION  
SOLAR ELECTRIC PROPULSION  
JET PROPULSION  
LOW THRUST PROPULSION  
ELECTROMAGNETIC PROPULSION  
ELECTROSTATIC PROPULSION  
ION PROPULSION  
MAN OPERATED PROPULSION SYSTEMS  
PHOTONIC PROPULSION  
PLASMA PROPULSION  
SOLAR PROPULSION  
SOLAR ELECTRIC PROPULSION  
SOLAR THERMAL PROPULSION  
MARINE PROPULSION  
UNDERWATER PROPULSION  
SUBMARINE PROPULSION  
NUCLEAR PROPULSION  
NUCLEAR ELECTRIC PROPULSION  
SPACE STATION PROPULSION  
SPACECRAFT PROPULSION  
ELECTROMAGNETIC PROPULSION

### PROPULSION-(CONT.)

ELECTROSTATIC PROPULSION  
ION PROPULSION  
MATTER-ANTIMATTER PROPULSION  
PHOTONIC PROPULSION  
PLASMA PROPULSION  
SOLAR PROPULSION  
SOLAR ELECTRIC PROPULSION  
SOLAR THERMAL PROPULSION  
RT AERONAUTICAL ENGINEERING  
AIRCRAFT  
ASTRONAUTICS  
DRIVES  
ENGINES  
EXHAUST GASES  
FUEL TANK PRESSURIZATION  
FUEL TANKS  
HIGH IMPULSE  
LOCOMOTION  
MASS DRIVERS  
MISSILES  
POST BOOST PROPULSION SYSTEM  
PROPPELLANTS  
PROPULSIVE EFFICIENCY  
PULLING  
PUSHING  
ROCKET PROPELLANTS  
SOLAR SAILS  
SPACE FLIGHT  
SPACE SHUTTLE MAIN ENGINE  
SPACE TUGS  
THRUST

### PROPULSION SYSTEM CONFIGURATIONS

GS PROPULSION SYSTEM CONFIGURATIONS  
ASCENT PROPULSION SYSTEMS  
DESCENT PROPULSION SYSTEMS  
RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT CONFIGURATIONS  
AUXILIARY PROPULSION CONFIGURATIONS  
CONVERTIBLE FAN-SHAFT ENGINES  
LASER PROPULSION  
LAUNCH VEHICLE CONFIGURATIONS  
MISSILE CONFIGURATIONS  
POST BOOST PROPULSION SYSTEM  
SPACE STATION PROPULSION  
SPACECRAFT CONFIGURATIONS  
∞ SYSTEMS  
TOPPING CYCLE ENGINES

### PROPULSION SYSTEM PERFORMANCE

RT COLD FLOW TESTS  
COMBUSTION EFFICIENCY  
∞ PERFORMANCE  
POWER EFFICIENCY  
PROPELLANT MASS RATIO  
PROPULSIVE EFFICIENCY  
ROCKET THRUST  
SOLAR THERMAL PROPULSION  
SPECIFIC IMPULSE  
∞ SYSTEMS  
THERMODYNAMIC EFFICIENCY

### PROPULSIVE EFFICIENCY

GS EFFICIENCY  
PROPELLER EFFICIENCY  
RT COMBUSTION EFFICIENCY  
ENGINE TESTS  
LASER PROPULSION  
MULTISTAGE ROCKET VEHICLES  
NOZZLE EFFICIENCY  
POWER EFFICIENCY  
PROPELLANT MASS RATIO  
PROPELLANT TESTS  
PROPULSION  
PROPULSION SYSTEM PERFORMANCE  
SPECIFIC IMPULSE  
THERMODYNAMIC EFFICIENCY  
THRUST PROGRAMMING

### PROTOTYPES

RT BREADBOARD MODELS  
∞ PATTERNS  
PILOT PLANTS

### PROTUBERANCES

SN (COMPONENTS MOUNTED EXTERNAL TO THE STRUCTURE)  
GS PROTUBERANCES  
PROTON PROTUBERANCES  
RT AERODYNAMIC CONFIGURATIONS  
AERODYNAMIC INTERFERENCE



**PROTUBERANCES-(CONT.)**

AIRCRAFT ANTENNAS  
AIRCRAFT PARTS  
AIRFRAMES  
∞ BUSTERS  
COWLINGS  
DOMES (STRUCTURAL FORMS)  
EXTERNAL STORE SEPARATION  
EXTERNAL STORES  
FAIRINGS  
FUEL TANKS  
HOUSINGS  
NACELLES  
PAPILLAE  
PITOT TUBES  
RADOMES  
∞ RIDGES  
SHELLS (STRUCTURAL FORMS)  
VORTEX ALLEVIATION  
WING-FUSELAGE STORES  
WINGLETS

**PROVIDER AIRCRAFT**

USE C-123 AIRCRAFT

**PULSATING FLOW**

USE UNSTEADY FLOW

**PULSE HEATING**

GS HARDENING (MATERIALS)  
PULSE HEATING  
HEAT TREATMENT  
ANNEALING  
PULSE HEATING  
HEATING  
TRANSIENT HEATING  
PULSE HEATING  
RT LASER HEATING

**PULSED JET ENGINES**

GS ENGINES  
PULSED JET ENGINES  
RT ELECTRIC ROCKET ENGINES  
ELECTROTHERMAL ENGINES  
PLASMA ENGINES  
RESISTOJET ENGINES

**PULSEJET ENGINES**

GS ENGINES  
AIR BREATHING ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
RAMJET ENGINES  
PULSEJET ENGINES  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
RAMJET ENGINES  
PULSEJET ENGINES  
TURBINE ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
RAMJET ENGINES  
PULSEJET ENGINES  
RT V-1 MISSILE

**PULSES**

GS PULSES  
ELECTRIC PULSES  
ELECTROMAGNETIC PULSES  
SYSTEM GENERATED  
ELECTROMAGNETIC PULSES  
GEOMAGNETIC PULSATIONS  
GEOMAGNETIC MICROPULSATIONS  
MICROPULSATIONS  
GEOMAGNETIC MICROPULSATIONS  
PICOSECOND PULSES  
PRESSURE PULSES  
RT AMPLITUDES  
INTERMITTENCY  
SOLITARY WAVES

**PUMP IMPELLERS**

GS ROTATING BODIES  
ROTORS  
IMPELLERS  
PUMP IMPELLERS  
RT CENTRIFUGAL COMPRESSORS  
CENTRIFUGAL PUMPS

**PYCNOMETERS**

RT DENSITY (MASS/VOLUME)

**PYLON MOUNTING**

RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT STRUCTURES  
COLUMNS (SUPPORTS)  
RIGID MOUNTING  
STRUCTURAL MEMBERS  
SUPPORTS  
WIND TUNNEL MODELS

**PYLONS**

GS SUPPORTS  
PYLONS  
RT COLUMNS (SUPPORTS)  
STRUCTURAL MEMBERS  
STRUTS  
TOWERS

**PYRAMIDAL BODIES**

RT ∞ BODIES  
PYRAMIDS  
REENTRY VEHICLES

**PYRANOMETERS**

GS MEASURING INSTRUMENTS  
RADIATION MEASURING INSTRUMENTS  
ACTINOMETERS  
PYRANOMETERS  
RT PHOTOMETERS  
RADIOMETERS  
SKY RADIATION

**PYROGRAPHALLOY**

USE COMPOSITE MATERIALS  
PYROLYTIC GRAPHITE  
REFRACTORY MATERIALS

**PYROLYTIC GRAPHITE**

UF PYROGRAPHALLOY  
GS CARBONACEOUS MATERIALS  
GRAPHITE  
PYROLYTIC GRAPHITE  
MINERALS  
GRAPHITE  
PYROLYTIC GRAPHITE  
PYROLYTIC MATERIALS  
PYROLYTIC GRAPHITE  
RT HEAT SHIELDING

**PYROLYTIC MATERIALS**

GS PYROLYTIC MATERIALS  
PYROLYTIC GRAPHITE  
RT ABLATIVE MATERIALS  
CERAMICS  
∞ MATERIALS  
REFRACTORY COATINGS  
REFRACTORY MATERIALS

**PYROMETALLURGY**

RT AEROTHERMOCHEMISTRY  
ALLOYING  
CHLORINATION  
∞ CONVERTERS  
HEAT BALANCE  
METAL WORKING  
∞ METALLURGY  
REFINING  
SINTERING  
SUBLIMATION  
THERMOCHEMISTRY

**PYROMETERS**

GS MEASURING INSTRUMENTS  
TEMPERATURE MEASURING  
INSTRUMENTS  
PYROMETERS  
RADIATION PYROMETERS  
THERMOCOUPLE PYROMETERS  
RT TEMPERATURE MEASUREMENT

**PYROMETRY**

USE TEMPERATURE MEASUREMENT

**PYROPHORIC MATERIALS**

RT EXPLOSIVES  
FLAMMABILITY  
HYPERGOLIC ROCKET PROPELLANTS  
IGNITERS  
IGNITION TEMPERATURE  
∞ MATERIALS  
METAL COMBUSTION  
SOLID PROPELLANT IGNITION  
SPONTANEOUS COMBUSTION

**P3V AIRCRAFT**

USE P-3 AIRCRAFT

**Q**

**QH-50 HELICOPTER**

UF DASH HELICOPTER  
DSN HELICOPTER  
GYRODYNE DSN-3 HELICOPTER  
GYRODYNE MILITARY AIRCRAFT  
GS GYRODYNE AIRCRAFT  
QH-50 HELICOPTER  
V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
QH-50 HELICOPTER

**QUADRATIC EQUATIONS**

GS ALGEBRA  
NONLINEAR EQUATIONS  
QUADRATIC EQUATIONS  
ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
NONLINEAR EQUATIONS  
QUADRATIC EQUATIONS  
FIELD THEORY (ALGEBRA)  
QUADRATIC EQUATIONS  
RT ∞ EQUATIONS  
POLYNOMIALS

**QUAIL MISSILE**

GS DECOYS  
QUAIL MISSILE  
MISSILES  
AIR TO SURFACE MISSILES  
QUAIL MISSILE  
RT COUNTERMEASURES  
TURBOJET ENGINES

**QUANTIZATION**

USE MEASUREMENT

**QUARTZ TRANSDUCERS**

GS TRANSDUCERS  
QUARTZ TRANSDUCERS  
RT PIEZOELECTRIC CRYSTALS  
PRESSURE SENSORS

**QUENCHING**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT EXTINGUISHING  
QUENCHING (ATOMIC PHYSICS)  
QUENCHING (COOLING)  
RAPID QUENCHING (METALLURGY)

**QUENCHING (COOLING)**

UF FLAME QUENCHING  
GS COOLING  
QUENCHING (COOLING)  
RT BATHS  
COMBUSTION  
DIPPING  
EXTINGUISHING  
HARDENING (MATERIALS)  
HEAT TREATMENT  
MICROSTRUCTURE  
QUENCHING  
SUBMERGING  
SUPERCOOLING  
SUPERSATURATION  
THERMOMECHANICAL TREATMENT  
WATER IMMERSION

**QUESTOL AIRCRAFT**

SN (EXPERIMENTAL STOL TRANSPORT  
RESEARCH AIRPLANE)  
UF EXPERIMENTAL STOL TRANSPORT RSCH  
AIRPLANE  
GS RESEARCH AIRCRAFT  
QUESTOL AIRCRAFT  
V/STOL AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
QUESTOL AIRCRAFT  
RT ∞ AIRCRAFT  
NASA PROGRAMS

**QUIET ENGINE PROGRAM**

GS PROGRAMS

## RA-28 ENGINE

### QUIET ENGINE PROGRAM-(CONT.)

- . NASA PROGRAMS
- . . . QUIET ENGINE PROGRAM
- RT AIRCRAFT ENGINES
- ENGINE NOISE
- JET AIRCRAFT NOISE
- JET ENGINES
- NOISE REDUCTION

## R

### RA-28 ENGINE

- GS ENGINES
- . AIR BREATHING ENGINES
- . GAS TURBINE ENGINES
- . . . JET ENGINES
- . . . . TURBOJET ENGINES
- . . . . . RA-28 ENGINE
- . . . . . INTERNAL COMBUSTION ENGINES
- . . . . . GAS TURBINE ENGINES
- . . . . . JET ENGINES
- . . . . . TURBOJET ENGINES
- . . . . . RA-28 ENGINE
- . . . . . TURBINE ENGINES
- . . . . . GAS TURBINE ENGINES
- . . . . . JET ENGINES
- . . . . . TURBOJET ENGINES
- . . . . . RA-28 ENGINE

### RADAR ALTIMETERS

- USE RADIO ALTIMETERS

### RADAR ANTENNAS

- GS ANTENNAS
- . DIRECTIONAL ANTENNAS
- . . RADAR ANTENNAS
- . . . RADANT
- RADAR EQUIPMENT
- . RADAR ANTENNAS
- . . RADANT
- RT AIRCRAFT ANTENNAS
- DIPLEXERS
- DIPOLE ANTENNAS
- DOGHOUSES (ELECTRONICS)
- HIGH RESOLUTION COVERAGE
- . ANTENNAS
- HORN ANTENNAS
- LENS ANTENNAS
- MICROWAVE ANTENNAS
- PARABOLIC ANTENNAS
- RADOMES
- REFLECTOR ANTENNAS
- SCHWARZSCHILD ANTENNAS
- SIDLOBE REDUCTION
- SLOT ANTENNAS
- STEERABLE ANTENNAS

### RADAR APPROACH CONTROL

- UF RAPCON (CONTROL)
- GS APPROACH CONTROL
- . RADAR APPROACH CONTROL
- GROUND BASED CONTROL
- . AIR TRAFFIC CONTROL
- . . RADAR APPROACH CONTROL
- TRAFFIC CONTROL
- . AIR TRAFFIC CONTROL
- . . RADAR APPROACH CONTROL
- AIRBORNE RADAR APPROACH
- AIRCRAFT GUIDANCE
- APPROACH INDICATORS
- ∞ CONTROL
- INSTRUMENT LANDING SYSTEMS
- LANDING AIDS
- LANDING INSTRUMENTS
- LANDING RADAR
- RADARSCOPES
- SURVEILLANCE RADAR

### RADAR HOMING MISSILES

- GS MISSILES
- . RADAR HOMING MISSILES
- RT MILITARY TECHNOLOGY
- MISSILE CONTROL
- MISSILE SYSTEMS
- TARGET RECOGNITION

### RADAR MEASUREMENT

- GS RADAR
- . RADAR MEASUREMENT
- RT ALTIMETRY
- DISTANCE MEASURING EQUIPMENT
- ∞ MEASUREMENT

### RADAR MEASUREMENT-(CONT.)

- RADIO ALTIMETERS
- RANGEFINDING
- SATELLITE ALTIMETRY

### RADAR NAVIGATION

- GS NAVIGATION
- . RADAR NAVIGATION
- RT AIR NAVIGATION
- AIRCRAFT CONTROL
- AIRCRAFT GUIDANCE
- ALL-WEATHER AIR NAVIGATION
- AUTOMATIC FLIGHT CONTROL
- CELESTIAL NAVIGATION
- COLLISION AVOIDANCE
- DEAD RECKONING
- DISTANCE
- DISTANCE MEASURING EQUIPMENT
- DOPPLER NAVIGATION
- DOPPLER RADAR
- DOPPLER-FIZEAU EFFECT
- GROUND BASED CONTROL
- INERTIAL NAVIGATION
- INTERPLANETARY NAVIGATION
- MAP MATCHING GUIDANCE
- RADARSCOPES
- RADIO NAVIGATION
- SATELLITE NAVIGATION SYSTEMS
- SPACE NAVIGATION
- SURFACE NAVIGATION
- TACAN

### RADIAL DRAINAGE PATTERNS

- USE DRAINAGE PATTERNS

### RADIAL FLOW

- GS FLUID FLOW
- . RADIAL FLOW
- RT AXIAL FLOW
- CENTRIFUGAL COMPRESSORS
- DIFFUSION
- FLOW GEOMETRY
- GAS FLOW
- HEAT TRANSMISSION
- TWO DIMENSIONAL FLOW

### RADIANT COOLING

- GS COOLING
- . RADIANT COOLING
- RT RADIATIVE HEAT TRANSFER
- SURFACE COOLING

### RADIANT HEATING

- UF RADIATION HEATING
- GS HEATING
- . RADIANT HEATING
- RT ∞ ENERGY
- GAS HEATING
- ∞ RADIATION
- RADIATIVE HEAT TRANSFER
- RADIATIVE TRANSFER
- SOLAR HEATING

### RADIATION HEATING

- USE RADIANT HEATING

### RADIATION NOISE

- USE ELECTROMAGNETIC NOISE

### RADIATION PRESSURE

- SN (DYNES/SQ CM AS DISTINGUISHED FROM RADIANT FLUX DENSITY--DYNES/CM-SEC)
- GS PRESSURE
- . RADIATION PRESSURE
- . . ELECTRON PRESSURE
- . . . LUMENS
- . . . LUMINOUS INTENSITY
- . . . ILLUMINANCE
- . . . LUMINANCE
- . . . SOUND PRESSURE
- RT BAROCLINIC WAVES
- BESSEL-BREDICHIN THEORY
- COMET TAILS
- CORPUSCULAR RADIATION
- ELASTIC WAVES
- ELECTROMAGNETIC RADIATION
- KOHOUTEK COMET
- PARTICLE FLUX DENSITY
- PERTURBATION
- PHOTOPHORESIS
- RADIANT FLUX DENSITY
- ∞ RADIATION
- SOLAR FLUX DENSITY
- SOLAR RADIATION

### RADIATION PRESSURE-(CONT.)

- SOLAR WIND
- STELLAR WINDS

### RADIATION PYROMETERS

- GS MEASURING INSTRUMENTS
- . TEMPERATURE MEASURING INSTRUMENTS
- . . PYROMETERS
- . . . RADIATION PYROMETERS
- RT BOLOMETERS
- CIRCUMSOLAR TELESCOPES
- OPTICAL PYROMETERS
- ∞ RADIATION
- TEMPERATURE MEASUREMENT
- THERMOCOUPLE PYROMETERS

### RADIATIVE HEAT TRANSFER

- GS RADIATIVE TRANSFER
- . RADIATIVE HEAT TRANSFER
- TRANSMISSION
- . HEAT TRANSMISSION
- . . HEAT TRANSFER
- . . . RADIATIVE HEAT TRANSFER
- RT CONCENTRATORS
- CONVECTIVE HEAT TRANSFER
- COOLING FINS
- HEAT RADIATORS
- INFRARED REFLECTION
- NEAR INFRARED RADIATION
- RADIANT COOLING
- RADIANT HEATING
- SATELLITE TEMPERATURE
- SPACECRAFT RADIATORS
- STEFAN-BOLTZMANN LAW
- SURFACE COOLING
- THERMOHYDRAULICS
- TROMBE WALLS
- VIEW EFFECTS

### RADIATIVE TRANSFER

- GS RADIATIVE TRANSFER
- . RADIATIVE HEAT TRANSFER
- RT ATMOSPHERIC CORRECTION
- COSMIC RAYS
- ELECTROMAGNETIC RADIATION
- ENERGY TRANSFER
- EXTRATERRESTRIAL RADIATION
- GALACTIC RADIATION
- HEAT TRANSFER
- HEAT TRANSMISSION
- INTERSTELLAR RADIATION
- NEAR INFRARED RADIATION
- PLANETARY ATMOSPHERES
- POLARIZED ELECTROMAGNETIC RADIATION
- RADIANT HEATING
- ∞ RADIATION
- RADIATION TRANSPORT
- RADIO BURSTS
- RADIO STARS
- SOLAR RADIATION
- STELLAR ATMOSPHERES
- STELLAR RADIATION

### ∞ RADIATORS

- SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)
- RT ANTENNAS
- HEAT RADIATORS
- SOUND TRANSDUCERS
- THERMOSIPHONS

### RADIO ALTIMETERS

- UF RADAR ALTIMETERS
- GS FLIGHT INSTRUMENTS
- . RADIO ALTIMETERS
- MEASURING INSTRUMENTS
- . DISTANCE MEASURING EQUIPMENT
- . . ALTIMETERS
- . . . RADIO ALTIMETERS
- RT AIRCRAFT INSTRUMENTS
- AUTOMATIC PILOTS
- INSTRUMENT LANDING SYSTEMS
- RADAR MEASUREMENT

### RADIO BEACONS

- UF RADIO RANGES
- GS NAVIGATION AIDS
- . BEACONS
- . . RADIO BEACONS
- . . . OMNIDIRECTIONAL RADIO RANGES
- . . . . SELF CALIBRATING OMNIRANGE
- RADIO EQUIPMENT

**RADIO BEACONS-(CONT.)**

GS . RADIO TRANSMITTERS  
 . **RADIO BEACONS**  
 . OMNIDIRECTIONAL RADIO RANGES  
 . SELF CALIBRATING OMNIRANGE  
 TRANSMITTERS  
 . RADIO TRANSMITTERS  
 . **RADIO BEACONS**  
 . OMNIDIRECTIONAL RADIO RANGES  
 . SELF CALIBRATING OMNIRANGE  
 RT AIRPORT BEACONS  
 BEACON COLLISION AVOIDANCE  
 SYSTEM  
 HOMING DEVICES  
 INSTRUMENT LANDING SYSTEMS  
 LANDING AIDS  
 ∞ MARKERS  
 NIGHT FLIGHTS (AIRCRAFT)  
 ORBIS  
 ORBIS CAL SATELLITE  
 RANGES (FACILITIES)  
 SOLAR COMPASSES

**RADIO CONTROL**

GS REMOTE CONTROL  
 . **RADIO CONTROL**  
 RT AIRCRAFT CONTROL  
 AUTOMATIC CONTROL  
 ∞ CONTROL  
 DEEP SPACE INSTRUMENTATION  
 FACILITY  
 GROUND BASED CONTROL  
 MISSILE CONTROL  
 SPACECRAFT CONTROL

**RADIO FREQUENCY INTERFERENCE**

UF RADIO INTERFERENCE  
 GS ELECTROMAGNETIC INTERFERENCE  
 . **RADIO FREQUENCY INTERFERENCE**  
 . BLACKOUT (PROPAGATION)  
 . POLAR RADIO BLACKOUT  
 . CHIRP  
 . CHIRP SIGNALS  
 . ELECTROMAGNETIC NOISE  
 . ATMOSPHERICS  
 . IONOSPHERICS  
 . DAWN CHORUS  
 . HISS  
 . SUDDEN ENHANCEMENT OF  
 ATMOSPHERICS  
 . WHISTLERS  
 . COSMIC NOISE  
 . IONOSPHERIC NOISE  
 . WHISTLERS  
 . SHOT NOISE  
 . WHITE NOISE  
 . THERMAL NOISE  
 . IONOSPHERIC CROSS MODULATION  
 RT CLUTTER  
 CROSS COUPLING  
 ELECTROMAGNETIC COMPATIBILITY  
 ELECTRONIC COUNTERMEASURES  
 ELECTRONIC WARFARE  
 EXTRATERRESTRIAL RADIO WAVES  
 ∞ INTERFERENCE  
 INTERFERENCE GRATING  
 INTERFERENCE IMMUNITY  
 JAMMING  
 NOISE GENERATORS  
 NOISE STORMS  
 SIGNAL FADING

**RADIO FREQUENCY NOISE**

USE ELECTROMAGNETIC NOISE

**RADIO INTERFERENCE**

USE RADIO FREQUENCY INTERFERENCE

**RADIO INTERFEROMETERS**

GS MEASURING INSTRUMENTS  
 . INTERFEROMETERS  
 . **RADIO INTERFEROMETERS**  
 RT ASTROPHYSICS  
 ORION (RADIO INTERFEROMETRY  
 NETWORK)  
 VERY LONG BASE INTERFEROMETRY

**RADIO NAVIGATION**

GS NAVIGATION  
 . **RADIO NAVIGATION**  
 . HYPERBOLIC NAVIGATION  
 . DECCA NAVIGATION  
 . LORAC NAVIGATION SYSTEM  
 . LORAN  
 . LORAN C

**RADIO NAVIGATION-(CONT.)**

RT . . . . LORAN D  
 . . . . SHORAN  
 . . . . TACAN  
 . . . . VHF OMNIRANGE NAVIGATION  
 AIR NAVIGATION  
 AIR TRAFFIC CONTROL  
 AIRCRAFT GUIDANCE  
 ALL-WEATHER AIR NAVIGATION  
 ASTRONAVIGATION  
 AUTOMATIC FLIGHT CONTROL  
 CELESTIAL NAVIGATION  
 COLLISION AVOIDANCE  
 DEAD RECKONING  
 DISTANCE MEASURING EQUIPMENT  
 DOPPLER NAVIGATION  
 FLIGHT CONTROL  
 GUIDANCE (MOTION)  
 HOMING DEVICES  
 INERTIAL NAVIGATION  
 INTERPLANETARY NAVIGATION  
 NAVIGATION AIDS  
 OMNIDIRECTIONAL RADIO RANGES  
 POSITIONING  
 RADAR NAVIGATION  
 SATELLITE NAVIGATION SYSTEMS  
 SOLAR COMPASSES  
 SPACE NAVIGATION  
 SURFACE NAVIGATION

**RADIO RANGES**

USE RADIO BEACONS

**RADIOMETERS**

GS MEASURING INSTRUMENTS  
 . RADIATION MEASURING INSTRUMENTS  
 . ACTINOMETERS  
 . **RADIOMETERS**  
 . DICKE RADIOMETERS  
 . INFRARED DETECTORS  
 . INFRARED RADIOMETERS  
 . INFRARED SCANNERS  
 . MICROWAVE RADIOMETERS  
 . PASSIVE L-BAND RADIOMETERS  
 . PRESSURE MODULATOR  
 RADIOMETERS  
 . SPECTORADIOMETERS  
 RT BLOMETERS  
 FOREST FIRE DETECTION  
 HORIZON SCANNERS  
 INFRARED PHOTOGRAPHY  
 INFRARED TRACKING  
 KNUDSEN GAGES  
 PHOTOMETERS  
 PYRANOMETERS  
 RADIOMETRIC RESOLUTION  
 SPECTROPHOTOMETERS  
 THERMISTORS  
 ULTRAVIOLET DETECTORS

**RAFTS**

GS **RAFTS**  
 . LIFE RAFTS  
 RT FLOATS  
 LIFEBOATS  
 SURVIVAL EQUIPMENT

**RAKES**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT PRESSURE SENSORS  
 SLOPES

**RAM B LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . **RAM B LAUNCH VEHICLE**  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . **RAM B LAUNCH VEHICLE**  
 RT SOLID PROPELLANT ROCKET ENGINES  
 TX-354 ENGINE

**RAMJET ENGINES**

UF ATHODYDS  
 GS ENGINES  
 . AIR BREATHING ENGINES  
 . GAS TURBINE ENGINES  
 . JET ENGINES  
 . **RAMJET ENGINES**  
 . INTEGRAL ROCKET RAMJETS  
 . LOW VOLUME RAMJET ENGINES  
 . PULSEJET ENGINES  
 . SUPERSONIC COMBUSTION  
 RAMJET ENGINES

**RAMJET ENGINES-(CONT.)**

RT . . . . TURBORAMJET ENGINES  
 . . . . INTERNAL COMBUSTION ENGINES  
 . . . . GAS TURBINE ENGINES  
 . . . . JET ENGINES  
 . **RAMJET ENGINES**  
 . . . . INTEGRAL ROCKET RAMJETS  
 . . . . LOW VOLUME RAMJET ENGINES  
 . . . . PULSEJET ENGINES  
 . . . . SUPERSONIC COMBUSTION  
 RAMJET ENGINES  
 . . . . TURBORAMJET ENGINES  
 . . . . TURBINE ENGINES  
 . . . . GAS TURBINE ENGINES  
 . . . . JET ENGINES  
 . **RAMJET ENGINES**  
 . . . . LOW VOLUME RAMJET ENGINES  
 . . . . PULSEJET ENGINES  
 . . . . SUPERSONIC COMBUSTION  
 RAMJET ENGINES  
 . . . . TURBORAMJET ENGINES  
 RT DUMP COMBUSTORS  
 HYDROGEN FUELS  
 METEOR 1 ROCKET VEHICLE  
 NAVAHO MISSILE  
 SUPERSONIC LOW ALTITUDE MISSILE  
 TURBOJET ENGINES

**RAMJET MISSILES**

GS MISSILES  
 . **RAMJET MISSILES**  
 . NAVAHO MISSILE  
 . SUPERSONIC LOW ALTITUDE MISSILE  
 RT AIR TO AIR MISSILES  
 ANTI-AIRCRAFT MISSILES  
 SUPERSONIC COMBUSTION RAMJET  
 ENGINES  
 SURFACE TO AIR MISSILES  
 SURFACE TO SURFACE MISSILES

**RAMPS**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT RAMP FUNCTIONS  
 RAMPS (STRUCTURES)

**RANDOM LOADS**

GS LOADS (FORCES)  
 . **RANDOM LOADS**  
 . GUST LOADS  
 RT CONTACT LOADS  
 DYNAMIC LOADS  
 IMPACT LOADS  
 STATIC LOADS  
 STRUCTURAL DESIGN CRITERIA  
 TRANSIENT LOADS

**RANGE**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT DISTANCE  
 ORBITAL POSITION ESTIMATION  
 RANGE (EXTREMES)  
 RANGES (FACILITIES)

**RANGE AND RANGE RATE TRACKING**

GS DISTANCE  
 . **RANGE AND RANGE RATE TRACKING**  
 . RADAR  
 . **RANGE AND RANGE RATE TRACKING**  
 TRACKING (POSITION)  
 . **RANGE AND RANGE RATE TRACKING**  
 RT GLOBAL TRACKING NETWORK  
 MISSILE TRACKING  
 NORTH AMERICAN SEARCH AND  
 RANGING RADAR  
 OPTICAL TRACKING  
 RADAR TRACKING  
 RADIO TRACKING  
 SATELLITE TRACKING  
 STDN (NETWORK)

**RANGE CONTROL**

USE TRAJECTORY CONTROL

**RANGE FINDERS**

UF RANGE INDICATORS  
 GS MEASURING INSTRUMENTS  
 . DISTANCE MEASURING EQUIPMENT  
 . **RANGE FINDERS**  
 . . . . OPTICAL RANGE FINDERS  
 . . . . LASER RANGE FINDERS  
 RT ALTIMETERS

## RANGE INDICATORS

### RANGE FINDERS-(CONT.)

FIRE CONTROL  
GEODIMETERS  
LASER RANGER/TRACKER  
LUNAR RANGEFINDING  
NAVIGATION AIDS  
POSITION INDICATORS  
RADAR EQUIPMENT  
RANGEFINDING  
SOUND LOCALIZATION  
SPACE PERCEPTION  
STADIMETERS  
TELLUROMETERS

### RANGE INDICATORS

USE RANGE FINDERS

### RANGEMASTER AIRCRAFT

USE G-1 AIRCRAFT

### RANGES (FACILITIES)

GS RANGES (FACILITIES)  
.. TEST RANGES  
.. BALLISTIC RANGES  
.. MISSILE RANGES  
RT RADIO BEACONS  
∞ RANGE

### RANKINE-HUGONOT RELATION

RT AEROTHERMODYNAMICS  
∞ DENSITY  
PRESSURE GRADIENTS  
SHOCK WAVE PROPAGATION

### RAOULT LAW

RT COMPOSITION (PROPERTY)  
HENRY LAW  
PARTIAL PRESSURE  
SOLUTIONS  
VAPOR PRESSURE

### RAPCON (CONTROL)

USE RADAR APPROACH CONTROL

### RAPID BALLISTICS IDENTIFICATION

GS IDENTIFYING  
.. RAPID BALLISTICS IDENTIFICATION  
RT DISPLAY DEVICES  
IMAGING TECHNIQUES  
LASER APPLICATIONS  
LASERS  
MEASURING INSTRUMENTS  
PHOTOGRAPHY  
SCANNING  
STIMULATED EMISSION  
STIMULATED EMISSION DEVICES

### RAPID TRANSIT SYSTEMS

UF HIGH SPEED TRANSPORTATION  
GS TRANSPORTATION  
.. RAPID TRANSIT SYSTEMS  
RT AIR TRANSPORTATION  
AUTOMATED GUIDEWAY TRANSIT  
VEHICLES  
AUTOMATED TRANSIT VEHICLES  
CARGO  
GROUND EFFECT MACHINES  
HIGHWAYS  
LOGISTICS  
PASSENGERS  
RAIL TRANSPORTATION  
RAILS  
ROADS  
∞ SYSTEMS  
∞ TRANSPORT VEHICLES  
TRANSPORTATION NETWORKS  
URBAN TRANSPORTATION

### RAPIDS

RT MEANDERS  
RIVER BASINS  
RIVERS  
STREAMS  
WATER CURRENTS  
WATER FLOW

### RAREFACTION WAVES

USE ELASTIC WAVES

### RAREFIED GAS DYNAMICS

GS FLUID MECHANICS  
.. FLUID DYNAMICS  
.. GAS DYNAMICS  
... RAREFIED GAS DYNAMICS

### RAREFIED GAS DYNAMICS-(CONT.)

RT ATOMIC BEAMS  
CHAPMAN-ENSKOG THEORY  
CONTINUUM FLOW  
∞ DYNAMICS  
FREE MOLECULAR FLOW  
KNUDSEN FLOW  
LOW DENSITY FLOW  
LOW DENSITY WIND TUNNELS  
MOLECULAR BEAMS  
MOLECULAR FLOW  
PLASMAS (PHYSICS)  
SLIP FLOW  
TRANSITION FLOW

### RAREFIED GASES

UF LOW DENSITY GASES  
GS GASES  
.. RAREFIED GASES  
.. COSMIC GASES  
.. INTERPLANETARY GAS  
.. INTERSTELLAR GAS  
RT ELECTRON GAS  
FREE MOLECULAR FLOW  
GAS DENSITY  
GAS TEMPERATURE  
HIGH TEMPERATURE GASES  
LOW DENSITY FLOW  
LOW DENSITY RESEARCH  
MOLECULAR GASES

### RATE METERS

USE MEASURING INSTRUMENTS

### RATE OF CLIMB INDICATORS

GS AIRCRAFT INSTRUMENTS  
.. RATE OF CLIMB INDICATORS  
RT ALTIMETERS  
FLIGHT INSTRUMENTS  
∞ INDICATORS

### RATES (PER TIME)

GS RATES (PER TIME)  
.. ACCELERATION (PHYSICS)  
.. ANGULAR ACCELERATION  
.. DECELERATION  
.. SPIN REDUCTION  
.. ELECTRON ACCELERATION  
.. HIGH ACCELERATION  
.. HIGH GRAVITY ENVIRONMENTS  
.. IMPACT ACCELERATION  
.. PARTICLE ACCELERATION  
.. PLASMA ACCELERATION  
.. TRANSVERSE ACCELERATION  
.. ACOUSTIC VELOCITY  
.. AIRSPEED  
.. ANGULAR VELOCITY  
.. BIT ERROR RATE  
.. BURNING RATE  
.. COLLISION PARAMETERS  
.. COLLISION RATES  
.. CRITICAL VELOCITY  
.. DECAY RATES  
.. ELECTRON DECAY RATE  
.. DRIFT RATE  
.. ESCAPE VELOCITY  
.. EVAPORATION RATE  
.. EXHAUST VELOCITY  
.. FLOW VELOCITY  
.. SOLAR WIND VELOCITY  
.. FLUX (RATE)  
.. HEAT FLUX  
.. MAGNETIC FLUX  
.. SOLAR FLUX  
.. FLUX DENSITY  
.. CURRENT DENSITY  
.. PHOTON DENSITY  
.. RADIANT FLUX DENSITY  
.. IRRADIANCE  
.. ILLUMINANCE  
.. SOLAR CONSTANT  
.. LUMENS  
.. LUMINOUS INTENSITY  
.. ILLUMINANCE  
.. LUMINANCE  
.. PARTICLE FLUX DENSITY  
.. ELECTRON FLUX DENSITY  
.. NEUTRON FLUX DENSITY  
.. PROTON FLUX DENSITY  
.. RADIANCE  
.. RADIANCY  
.. SOLAR FLUX DENSITY  
.. SOLAR CONSTANT  
.. SOUND INTENSITY  
.. ZERO SOUND

### RATES (PER TIME)-(CONT.)

.. GROUND SPEED  
.. GROUP VELOCITY  
.. HEART RATE  
.. ARRHYTHMIA  
.. BRADYCARDIA  
.. TACHYCARDIA  
.. HIGH SPEED  
.. HYPERSONIC SPEED  
.. ION PRODUCTION RATES  
.. LANDING SPEED  
.. LIGHT SPEED  
.. LOADING RATE  
.. LOW SPEED  
.. MASS FLOW RATE  
.. ORBITAL VELOCITY  
.. PHASE VELOCITY  
.. PHYSIOLOGICAL ACCELERATION  
.. PROPAGATION VELOCITY  
.. PULSE RATE  
.. PULSE REPETITION RATE  
.. RADIAL VELOCITY  
.. RECOMBINATION COEFFICIENT  
.. RELATIVISTIC VELOCITY  
.. RESPIRATORY RATE  
.. DYSPNEA  
.. HYPOVENTILATION  
.. TACHYPNEA  
.. ROTOR SPEED  
.. SIGNAL FADING RATE  
.. SOLAR VELOCITY  
.. STRAIN ENERGY RELEASE RATE  
.. STRAIN RATE  
.. SUBSONIC SPEED  
.. SUPERSONIC SPEED  
.. SYSTOLE  
.. TERMINAL VELOCITY  
.. TIP SPEED  
.. TRANSONIC SPEED  
.. WIND VELOCITY  
.. SOLAR WIND VELOCITY  
RT ACCESS TIME  
MTBF  
SOLITARY WAVES  
TIME FUNCTIONS  
TIME MEASUREMENT  
VOLUME

### RAVEN HELICOPTER

USE OH-23 HELICOPTER

### RAY ACOUSTICS

USE GEOMETRICAL ACOUSTICS

### RAYLEIGH EQUATIONS

RT ∞ EQUATIONS  
FLOW EQUATIONS  
HEAT TRANSFER  
THERMODYNAMICS

### RAYLEIGH NUMBER

GS RATIOS  
.. DIMENSIONLESS NUMBERS  
.. RAYLEIGH NUMBER  
RT BENARD CELLS  
BUOYANCY  
RAYLEIGH-BENARD CONVECTION

### RAYLEIGH WAVES

GS ELASTIC WAVES  
.. SEISMIC WAVES  
.. RAYLEIGH WAVES  
RT BAROTROPIC FLOW  
FLUID FLOW  
S WAVES  
TWO DIMENSIONAL FLOW

### RAYLEIGH-BENARD CONVECTION

GS CONVECTION  
.. FREE CONVECTION  
.. RAYLEIGH-BENARD CONVECTION  
.. BENARD CELLS  
FLUID FLOW  
.. CONVECTIVE FLOW  
.. RAYLEIGH-BENARD CONVECTION  
.. BENARD CELLS  
RT CONVECTION CURRENTS  
CONVECTIVE HEAT TRANSFER  
FORCED CONVECTION  
HOT SURFACES  
LAMINAR FLOW  
RAYLEIGH NUMBER  
THERMAL BOUNDARY LAYER

**RAYLEIGH-RITZ METHOD**

- GS ANALYSIS (MATHEMATICS)
  - . NUMERICAL ANALYSIS
  - . APPROXIMATION
  - . RAYLEIGH-RITZ METHOD
- RT ∞ METHODOLOGY
  - . VARIATIONAL PRINCIPLES

**∞ RAYS**

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*
- RT
  - . ATMOSPHERIC RADIATION
  - . BACKGROUND NOISE
  - . BEAMS (RADIATION)
  - . CAUSTICS (OPTICS)
  - . COHERENT RADIATION
  - . CONTINUOUS RADIATION
  - . CORPUSCULAR RADIATION
  - . ELECTROMAGNETIC RADIATION
  - . EXTRATERRESTRIAL RADIATION
  - . GAMMA RAYS
  - . LUNAR RAYS
  - . POLARIZED RADIATION
  - . PULSED RADIATION

**RB-47 AIRCRAFT**

- USE B-47 AIRCRAFT

**RB-50 AIRCRAFT**

- UF SUPER FORTRESS AIRCRAFT
- GS
  - . BOEING AIRCRAFT
  - . RB-50 AIRCRAFT
  - . MONOPLANES
  - . RB-50 AIRCRAFT
  - . OBSERVATION AIRCRAFT
  - . RB-50 AIRCRAFT
  - . RECONNAISSANCE AIRCRAFT
  - . RB-50 AIRCRAFT
- RT ∞ AIRCRAFT
  - . BOMBER AIRCRAFT
  - . WEATHER RECONNAISSANCE AIRCRAFT

**RB-57 AIRCRAFT**

- USE B-57 AIRCRAFT

**RB-66 AIRCRAFT**

- USE B-66 AIRCRAFT

**REACTION JETS**

- USE
  - . JET FLOW
  - . JET THRUST

**REAL GASES**

- GS GASES
  - . REAL GASES
- RT
  - . EQUATIONS OF STATE
  - . GAS DENSITY
  - . IDEAL GAS
  - . KINETIC THEORY
  - . MOLECULAR GASES
  - . MONATOMIC GASES

**REARWARD FACING STEPS**

- USE BACKWARD FACING STEPS

**REATTACHED FLOW**

- GS FLUID FLOW
  - . VISCOUS FLOW
  - . BOUNDARY LAYER FLOW
  - . REATTACHED FLOW
- RT ∞ ATTACHMENT
  - . BACKWARD FACING STEPS
  - . BOUNDARY LAYER SEPARATION
  - . COANDA EFFECT
  - . CROCCO-LEE THEORY
  - . FLOW CHARACTERISTICS
  - . FLOW DISTRIBUTION
  - . SEPARATED FLOW

**RECEPTACLES (CONTAINERS)**

- USE CONTAINERS

**RECIPROCATING ENGINES**

- USE PISTON ENGINES

**RECIRCULATION**

- USE CIRCULATION

**RECIRCULATIVE FLUID FLOW**

- GS FLUID FLOW
  - . RECIRCULATIVE FLUID FLOW
- RT
  - . BACKWARD FACING STEPS
  - . BOUNDARY LAYER FLOW

**RECIRCULATIVE FLUID FLOW-(CONT.)**

- . BOUNDARY LAYER SEPARATION
- . REVERSED FLOW
- . TURBULENT FLOW
- . TURBULENT MIXING
- . VORTICES

**RECONNAISSANCE**

- GS RECONNAISSANCE
  - . AERIAL RECONNAISSANCE
  - . AIRBORNE INTEGRATED RECONNAISSANCE SYSTEM
  - . PHOTORECONNAISSANCE
  - . SPECTRAL RECONNAISSANCE
- RT
  - . COSPAS
  - . EARTH RESOURCES OBSERVATION PATROLS
  - . PHOTO GEOLOGY
  - . SARSAAT
  - . SEARCHING
  - . SPACE OBSERVATIONS (FROM EARTH)
  - . SPACE SURVEILLANCE (SPACEBORNE)
  - . SURVEILLANCE
  - . SURVEYS
  - . TERRAIN ANALYSIS

**RECONNAISSANCE AIRCRAFT**

- GS RECONNAISSANCE AIRCRAFT
  - . A-9 AIRCRAFT
  - . BREGUET 1150 AIRCRAFT
  - . CESSNA L-19 AIRCRAFT
  - . CL-84 AIRCRAFT
  - . EARTH RESOURCES SURVEY AIRCRAFT
  - . F-5 AIRCRAFT
  - . G-91 AIRCRAFT
  - . G-95/4 AIRCRAFT
  - . HS-801 AIRCRAFT
  - . MIRAGE AIRCRAFT
  - . MIRAGE 3 AIRCRAFT
  - . OV-10 AIRCRAFT
  - . P-1127 AIRCRAFT
  - . P-1154 AIRCRAFT
  - . RB-50 AIRCRAFT
  - . SR-71 AIRCRAFT
  - . TSR-2 AIRCRAFT
  - . U-2 AIRCRAFT
  - . VICTOR MK-1 AIRCRAFT
  - . WEATHER RECONNAISSANCE AIRCRAFT
- RT
  - . AERIAL RECONNAISSANCE
  - . ∞ AIRCRAFT
  - . ANTISUBMARINE WARFARE AIRCRAFT
  - . FLYING PLATFORMS
  - . JET AIRCRAFT
  - . LIGHT AIRCRAFT
  - . ∞ MILITARY AIRCRAFT
  - . ∞ MILITARY AVIATION
  - . MILITARY HELICOPTERS
  - . OBSERVATION AIRCRAFT
  - . PILOTLESS AIRCRAFT
  - . SUBMERSIBLE AIRCRAFT
  - . SUPERSONIC AIRCRAFT
  - . UTILITY AIRCRAFT
  - . V/STOL AIRCRAFT
  - . VALIANT AIRCRAFT
  - . WATER TAKEOFF AND LANDING AIRCRAFT
  - . YF-12 AIRCRAFT

**∞ RECORDERS**

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*
- RT
  - . CABLE FORCE RECORDERS
  - . DATA RECORDERS
  - . PLAYBACKS
  - . RECORDING INSTRUMENTS
  - . REGISTERS (COMPUTERS)
  - . TAPE RECORDERS
  - . VLF EMISSION RECORDERS

**RECORDING INSTRUMENTS**

- UF
  - . EMISSOGRAPHS
  - . PLUVIOGRAPHS
  - . THERMOGRAMS
- GS
  - . RECORDING INSTRUMENTS
  - . BATHY THERMOGRAPHS
  - . CABLE FORCE RECORDERS
  - . FLIGHT LOAD RECORDERS
  - . FLIGHT RECORDERS
  - . FORCE VECTOR RECORDERS
  - . MECHANOGAPHS
  - . OSCILLOGRAPHS

**RECORDING INSTRUMENTS-(CONT.)**

- . PLOTTERS
- . X-Y PLOTTERS
- . PRESSURE RECORDERS
- . RADIO METEOROLOGICAL SEISMOGRAPHS
- . LUNAR SEISMOGRAPHS
- . VIDEO TAPE RECORDERS
- . WEATHER DATA RECORDERS
- . WHISTLER RECORDERS
- RT
  - . AIRCRAFT INSTRUMENTS
  - . AUTOMATIC CONTROL
  - . BUBBLE TECHNIQUE
  - . CONTROL EQUIPMENT
  - . COUNTERS
  - . DATA RECORDERS
  - . ELECTRONIC RECORDING SYSTEMS
  - . FLIGHT INSTRUMENTS
  - . GRAPHS (CHARTS)
  - . INDICATING INSTRUMENTS
  - . INSTRUMENT RECEIVERS
  - . INSTRUMENT TRANSMITTERS
- ∞ INSTRUMENTS
  - . MEASURING INSTRUMENTS
  - . METEOROLOGICAL INSTRUMENTS
- ∞ PENS
  - . PHOTOGRAPHIC RECORDING
- ∞ RECORDERS
  - . RECORDING HEADS
  - . SONOGRAMS
  - . SPHYGMOGRAPHY
  - . TAPE RECORDERS
  - . TRANSDUCERS
  - . VLF EMISSION RECORDERS

**RECOVERABLE LAUNCH VEHICLES**

- GS LAUNCH VEHICLES
  - . RECOVERABLE LAUNCH VEHICLES
- RT
  - . BOOSTER RECOVERY
  - . LAUNCH VEHICLE CONFIGURATIONS
  - . MULTIENGINE VEHICLES
- ∞ RECOVERY
  - . RECOVERY PARACHUTES
  - . REUSABLE LAUNCH VEHICLES
- ∞ VEHICLES
  - . WINGED VEHICLES

**∞ RECOVERY**

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*
- RT
  - . BOOSTER RECOVERY
  - . GAS RECOVERY
  - . MATERIALS RECOVERY
  - . NUCLEAR FUEL REPROCESSING
  - . OIL RECOVERY
  - . PRESSURE RECOVERY
  - . RECLAMATION
  - . RECOVERABILITY
  - . RECOVERABLE LAUNCH VEHICLES
  - . RECOVERY PARACHUTES
  - . RETRIEVAL
  - . REUSE
  - . SPACECRAFT RECOVERY
  - . STRESS RELAXATION
  - . STRESS RELIEVING
  - . VISUAL DISCRIMINATION

**RECOVERY PARACHUTES**

- GS PARACHUTES
  - . RECOVERY PARACHUTES
- RT
  - . BOOSTER RECOVERY
  - . DISCOVERER RECOVERY CAPSULES
  - . RECOVERABLE LAUNCH VEHICLES
- ∞ RECOVERY
  - . RIBBON PARACHUTES
  - . SPACECRAFT RECOVERY

**RECOVERY VEHICLES**

- SN (EXCLUDES RECOVERABLE VEHICLES)
- RT
  - . HELICOPTERS
  - . ∞ MILITARY VEHICLES
  - . TRUCKS
  - . ∞ VEHICLES

**RECOVERY ZONES**

- RT
  - . DOWNRANGE
  - . LANDING SITES
  - . REENTRY RANGE
  - . REGIONS
  - . SPACECRAFT RECOVERY

**RECTANGULAR DRAINAGE**

- USE DRAINAGE PATTERNS

## RECTANGULAR PANELS

### RECTANGULAR PANELS

GS PANELS  
  . RECTANGULAR PANELS  
  PLANFORMS  
  . RECTANGULAR PLANFORMS  
  . RECTANGULAR PANELS  
RT STRAKES  
  STRUCTURAL MEMBERS  
  WING PANELS

### RECTANGULAR PLANFORMS

GS PLANFORMS  
  . RECTANGULAR PLANFORMS  
  . RECTANGULAR PANELS  
  . RECTANGULAR PLATES  
  . RECTANGULAR WINGS  
RT RECTANGLES  
  WING PLANFORMS

### RECTANGULAR PLATES

GS PLANFORMS  
  . RECTANGULAR PLANFORMS  
  . RECTANGULAR PLATES  
  STRUCTURAL MEMBERS  
  . PLATES (STRUCTURAL MEMBERS)  
  . RECTANGULAR PLATES  
RT FLAT PLATES  
  METAL PLATES  
  . PLATES

### RECTANGULAR WIND TUNNELS

GS TEST FACILITIES  
  WIND TUNNELS  
  . RECTANGULAR WIND TUNNELS  
RT SUBSONIC WIND TUNNELS

### RECTANGULAR WINGS

UF STRAIGHT WINGS  
GS AIRFOILS  
  WINGS  
  . UNSWEPT WINGS  
  . RECTANGULAR WINGS  
  PLANFORMS  
  . RECTANGULAR PLANFORMS  
  . RECTANGULAR WINGS

### RECUPERATORS

USE REGENERATORS

### REDEYE MISSILE

GS MISSILES  
  . ANTI-AIRCRAFT MISSILES  
  . REDEYE MISSILE  
  SURFACE TO AIR MISSILES  
  . REDEYE MISSILE  
RT SOLID PROPELLANT ROCKET ENGINES

### REENTRY

GS ATMOSPHERIC ENTRY  
  . REENTRY  
  . HYPERBOLIC REENTRY  
  . HYPERSONIC REENTRY  
  . UNCONTROLLED REENTRY  
  (SPACECRAFT)  
  . MANNED REENTRY  
  . SPACECRAFT REENTRY  
  . UNCONTROLLED REENTRY  
  (SPACECRAFT)  
RT ABLATION  
  AERODYNAMIC HEATING  
  AERODYNAMIC STABILITY  
  AERODYNAMICS  
  AEROTHERMODYNAMICS  
  DESCENT  
  DESCENT TRAJECTORIES  
  . ENTRY  
  FLIGHT PATHS  
  IMPACT PREDICTION  
  LIFTING REENTRY VEHICLES  
  LOW OBSERVABLE REENTRY VEHICLES  
  MISSILES  
  . ROCKETS  
  SPACE FLIGHT  
  TERMINAL GUIDANCE

### REENTRY BODIES

USE REENTRY VEHICLES

### REENTRY BREAKUP

USE SPACECRAFT BREAKUP

### REENTRY DECOYS

GS COUNTERMEASURES  
  . REENTRY DECOYS

### REENTRY DECOYS-(CONT.)

DECOYS  
  . REENTRY DECOYS  
  REENTRY VEHICLES  
  . REENTRY DECOYS  
RT BALLISTIC MISSILE DECOYS  
  MISSILE DEFENSE

### REENTRY EFFECTS

RT ABLATION  
  AERODYNAMIC HEATING  
  BLACKOUT (PROPAGATION)  
  . EFFECTS  
  HYPERSONIC REENTRY  
  PLASMA SHEATHS  
  SPACECRAFT BREAKUP  
  TEMPERATURE EFFECTS

### REENTRY GLIDERS

USE LIFTING REENTRY VEHICLES

### REENTRY GUIDANCE

GS GUIDANCE (MOTION)  
  . REENTRY GUIDANCE  
RT AUTOMATIC CONTROL  
  DESCENT TRAJECTORIES  
  INERTIAL GUIDANCE  
  MANUAL CONTROL  
  SATELLITE GUIDANCE  
  SPACECRAFT GUIDANCE  
  TERMINAL GUIDANCE

### REENTRY PHYSICS

RT ABLATION  
  AEROTHERMOCHEMISTRY  
  AEROTHERMODYNAMICS  
  HYPERSONIC REENTRY  
  LOW OBSERVABLE REENTRY VEHICLES  
  . PHYSICS  
  PLASMA SHEATHS  
  . SCIENCE

### REENTRY RANGE

GS DISTANCE  
  . REENTRY RANGE  
RT MISSILE RANGES  
  RECOVERY ZONES

### REENTRY SHIELDING

GS SHIELDING  
  . HEAT SHIELDING  
  . REENTRY SHIELDING  
RT ABLATION  
  ABLATIVE NOSE CONES  
  AERODYNAMIC HEATING  
  AEROTHERMOCHEMISTRY  
  HEAT SINKS  
  . INSULATED STRUCTURES  
  LUDOX (TRADEMARK)  
  NOSE CONES  
  REUSABLE HEAT SHIELDING  
  SPACECRAFT SHIELDING  
  THERMAL CONTROL COATINGS  
  THERMAL INSULATION  
  THERMAL PROTECTION

### REENTRY TRAJECTORIES

GS TRAJECTORIES  
  . DESCENT TRAJECTORIES  
  . REENTRY TRAJECTORIES  
RT CIRCUMLUNAR TRAJECTORIES  
  FLIGHT MECHANICS  
  HYPERBOLIC REENTRY  
  MISSILE TRAJECTORIES  
  MOON-EARTH TRAJECTORIES  
  SPACECRAFT TRAJECTORIES  
  TERMINAL GUIDANCE

### REENTRY VEHICLES

UF REENTRY BODIES  
GS REENTRY VEHICLES  
  . BOOSTGLIDE VEHICLES  
  . X-20 AIRCRAFT  
  . LOW OBSERVABLE REENTRY  
  VEHICLES  
  . MANEUVERABLE REENTRY BODIES  
  . LIFTING REENTRY VEHICLES  
  . FDL-5 REENTRY VEHICLE  
  . HL-10 REENTRY VEHICLE  
  . HLD-35 REENTRY VEHICLE  
  . JANUS SPACECRAFT  
  . M-2 LIFTING BODY  
  . M-2F2 LIFTING BODY  
  . X-20 AIRCRAFT  
  . X-24 AIRCRAFT

### REENTRY VEHICLES-(CONT.)

MARK 1 REENTRY BODY  
MARK 2 REENTRY BODY  
MARK 3 REENTRY BODY  
MARK 4 REENTRY BODY  
MARK 5 REENTRY BODY  
MARK 6 REENTRY BODY  
MARK 11 REENTRY BODY  
MARK 12 REENTRY BODY  
MARK 17 REENTRY BODY  
RECOVERABLE SPACECRAFT  
  . APOLLO SPACECRAFT  
  . APOLLO LUNAR EXPERIMENT  
  MODULE  
  . ASTRO VEHICLE  
  . GEMINI 8 SPACECRAFT  
  . GEMINI SPACECRAFT  
  . GEMINI (GT-1) SPACECRAFT  
  . GEMINI 2 SPACECRAFT  
  . MERCURY SPACECRAFT  
  . AURORA 7  
  . FAITH 7  
  . FRIENDSHIP 7  
  . SIGMA 7  
  . REUSABLE SPACECRAFT  
  . AEROSPACE PLANES  
  . HOTOL LAUNCH VEHICLE  
  . X-30 VEHICLE  
  . MARS (MANNED REUSABLE  
  SPACECRAFT)  
  . SPACE SHUTTLE ORBITERS  
  . ATLANTIS (ORBITER)  
  . CHALLENGER (ORBITER)  
  . COLUMBIA (ORBITER)  
  . DISCOVERY (ORBITER)  
  . ENDEAVOUR (ORBITER)  
  . ENTERPRISE (ORBITER)  
  . SPACE SHUTTLES  
  . BURAN SPACE SHUTTLE  
  . HERMES MANNED SPACEPLANE  
  . VOSKHOD MANNED SPACECRAFT  
  . VOSKHOD 1 SPACECRAFT  
  . VOSKHOD 2 SPACECRAFT  
  . VOSTOK SPACECRAFT  
  . VOSTOK 1 SPACECRAFT  
  . VOSTOK 2 SPACECRAFT  
  . VOSTOK 3 SPACECRAFT  
  . VOSTOK 4 SPACECRAFT  
  . VOSTOK 5 SPACECRAFT  
  . VOSTOK 6 SPACECRAFT  
  . REENTRY DECOYS  
  . TRAILBLAZER 1 REENTRY VEHICLE  
  . TRAILBLAZER 2 REENTRY VEHICLE  
  . X-17 REENTRY VEHICLE  
  . ABLATIVE NOSE CONES  
  . AEROTHERMOCHEMISTRY  
  . ATHENA ROCKET VEHICLE  
  . BALLISTIC VEHICLES  
  . BLUFF BODIES  
  . BODIES  
  . FERRY SPACECRAFT  
  . FLIGHT VEHICLES  
  . HYPERSONIC VEHICLES  
  . INSULATED STRUCTURES  
  . LANDING MODULES  
  . LIFTING BODIES  
  . MANEUVERABLE SPACECRAFT  
  . MISSILES  
  . NOSE CONES  
  . PYRAMIDAL BODIES  
  . ROCKETS  
  . SPACE CAPSULES  
  . SPACECRAFT  
  . SPACECRAFT CONFIGURATIONS  
  . TERMINAL GUIDANCE  
  . TEST VEHICLES  
  . VEHICLES  
  . WINGED VEHICLES

### REFERENCE STARS

GS CELESTIAL BODIES  
  . STARS  
RT . REFERENCE STARS  
  ASTRONOMICAL COORDINATES  
  ASTRONOMICAL PHOTOGRAPHY  
  CELESTIAL NAVIGATION  
  NAVIGATION AIDS  
  SPACE NAVIGATION

### REFLECTOMETERS

GS MEASURING INSTRUMENTS  
  . OPTICAL MEASURING INSTRUMENTS  
  . REFLECTOMETERS  
  . MICROWAVE REFLECTOMETERS  
  OPTICAL EQUIPMENT

## REFLECTOMETERS-(CONT.)

- OPTICAL MEASURING INSTRUMENTS
- REFLECTOMETERS
- MICROWAVE REFLECTOMETERS
- RT COMPARATORS
- DIRECTORS (ANTENNA ELEMENTS)
- OPTICAL MEASUREMENT
- PHOTOMETERS
- REACTOR CORES
- REFLECTANCE
- REFLECTOR ANTENNAS
- SCHULKUNOFF PRINCIPLE
- TWO REFLECTOR ANTENNAS
- ULTRAVIOLET REFLECTION

## REFRACTOMETERS

- GS MEASURING INSTRUMENTS
- OPTICAL MEASURING INSTRUMENTS
- REFRACTOMETERS
- OPTICAL EQUIPMENT
- OPTICAL MEASURING INSTRUMENTS
- REFRACTOMETERS
- RT GONIOMETERS
- OPTICAL MEASUREMENT
- REFRACTIVITY

## REFRACTORIES

- GS REFRACTORY MATERIALS
- REFRACTORIES
- RT CERAMICS
- CERMETS
- COMBUSTION CHAMBERS
- FORSTERITE
- FURNACES
- HEARTHES
- MORTARS (MATERIAL)
- REFRACTORY COATINGS
- ROCKET ENGINES
- ROCKET LININGS
- THERMAL INSULATION
- TURBINES

## REGENERATIVE COOLING

- GS COOLING
- REGENERATIVE COOLING
- RT HEAT EXCHANGERS
- PRECOOLING
- REGENERATORS

## REGENERATORS

- UF RECUPERATORS
- GS REGENERATORS
- THERMOSIPHONS
- RT ENERGY STORAGE
- HEAT EXCHANGERS
- HEAT SINKS
- REGENERATIVE COOLING
- TUBE HEAT EXCHANGERS

## REGULATION

- USE CONTROL

## REGULUS MISSILE

- GS MISSILES
- SURFACE TO SURFACE MISSILES
- REGULUS MISSILE
- RT SOLID PROPELLANT ROCKET ENGINES
- TURBOJET ENGINES

## REHEATING

- USE HEATING

## REIGNITION

- USE IGNITION

## REINFORCED SHELLS

- GS SHELLS (STRUCTURAL FORMS)
- REINFORCED SHELLS
- RT ANISOTROPIC SHELLS
- CORRUGATED SHELLS
- CYLINDRICAL SHELLS
- FLUID FILLED SHELLS
- HEMISPHERICAL SHELLS
- LIQUID FILLED SHELLS
- METAL SHELLS
- ORTHOTROPIC SHELLS
- PLASTIC SHELLS
- REINFORCEMENT (STRUCTURES)
- REINFORCEMENT RINGS
- SHELL STABILITY
- SPHERICAL SHELLS
- THIN WALLED SHELLS
- TOROIDAL SHELLS
- WIND TUNNEL WALLS

## RELAXATION METHOD (MATHEMATICS)

- GS ANALYSIS (MATHEMATICS)
- NUMERICAL ANALYSIS
- APPROXIMATION
- RELAXATION METHOD (MATHEMATICS)
- RT COMPUTATIONAL FLUID DYNAMICS
- METHODOLOGY
- RELAXATION
- RELAXATION (MECHANICS)

## RELOCATION

- RT INSTALLING
- POSITIONING
- REPLACING

## REMOTE CONTROL

- UF ELECTROMAGNETIC CONTROL
- GS REMOTE CONTROL
- RADIO CONTROL
- RT AIRCRAFT CONTROL
- ANTIRADIATION MISSILES
- ATTITUDE CONTROL
- AUTOMATIC CONTROL
- AUTOMATION
- CASCADE CONTROL
- CONTROL
- CONTROL BOARDS
- CONTROLLERS
- DIGITAL COMMAND SYSTEMS
- DYNAMIC CHARACTERISTICS
- ELECTRIC CONTROL
- ELECTRONIC CONTROL
- ENGINE CONTROL
- FLIGHT CONTROL
- GROUND BASED CONTROL
- GUIDANCE (MOTION)
- HYDRAULIC CONTROL
- INSTRUMENTS
- KALMAN-SCHMIDT FILTERING
- MANIPULATORS
- MANUAL CONTROL
- MISSILE CONTROL
- PNEUMATIC CONTROL
- REMOTE MANIPULATOR SYSTEM
- ROCKET ENGINE CONTROL
- SATELLITE CONTROL
- SERVOCONTROL
- SERVOMECHANISMS
- SPACECRAFT CONTROL
- TELEOPERATORS
- TEMPERATURE CONTROL
- TURBOJET ENGINE CONTROL
- VISUAL CONTROL

## REMOTELY PILOTED VEHICLES

- UF RPV
- RT AIRCRAFT
- DAST PROGRAM
- DRONE AIRCRAFT
- HIGHLY MANEUVERABLE AIRCRAFT
- JINDIVIK TARGET AIRCRAFT
- OBLIQUE WINGS
- ORBITAL MANEUVERING VEHICLES
- PILOTLESS AIRCRAFT
- TARGET DRONE AIRCRAFT
- VATOL AIRCRAFT
- VEHICLES

## RENDEZVOUS GUIDANCE

- GS GUIDANCE (MOTION)
- RENDEZVOUS GUIDANCE
- RT COMMAND GUIDANCE
- HOMING DEVICES
- INJECTION GUIDANCE
- MIDCOURSE GUIDANCE
- ORBITAL RENDEZVOUS
- SATELLITE GUIDANCE
- SPACECRAFT GUIDANCE
- TERMINAL GUIDANCE

## RENDEZVOUS TRAJECTORIES

- GS TRAJECTORIES
- RENDEZVOUS TRAJECTORIES
- RT ASCENT TRAJECTORIES
- CIRCUMLUNAR TRAJECTORIES
- EARTH ORBITAL RENDEZVOUS
- EARTH-MOON TRAJECTORIES
- FLIGHT MECHANICS
- INTERPLANETARY TRAJECTORIES
- ORBITAL MECHANICS
- ORBITAL RENDEZVOUS
- SPACE RENDEZVOUS
- SPACECRAFT DOCKING
- SPACECRAFT TRAJECTORIES

## RENORMALIZATION GROUP METHODS

- RT MONTE CARLO METHOD
- NORMALIZING (STATISTICS)
- STATISTICAL MECHANICS
- TURBULENCE MODELS

## REPUBLIC AIRCRAFT

- GS REPUBLIC AIRCRAFT
- A-10 AIRCRAFT
- F-84 AIRCRAFT
- F-105 AIRCRAFT
- RT AIRCRAFT

## REPUBLIC MILITARY AIRCRAFT

- USE MILITARY AIRCRAFT

## RESEARCH AIRCRAFT

- UF EXPERIMENTAL AIRCRAFT
- ORNITHOPTER AIRCRAFT
- GS RESEARCH AIRCRAFT
- AVIAN 2/180 AUTOGIRO
- AVRO 707 AIRCRAFT
- B-70 AIRCRAFT
- BREGUET 940 AIRCRAFT
- C-8A AUGMENTOR WING AIRCRAFT
- D-558 AIRCRAFT
- FD 2 AIRCRAFT
- FIREBEE 2 TARGET DRONE AIRCRAFT
- H-17 HELICOPTER
- H-126 AIRCRAFT
- HP-115 AIRCRAFT
- NORD 1500 AIRCRAFT
- P-1052 AIRCRAFT
- QUESTOL AIRCRAFT
- ROTOR SYSTEMS RESEARCH AIRCRAFT
- SC-1 AIRCRAFT
- U-2 AIRCRAFT
- VZ-2 AIRCRAFT
- VZ-8 AIRCRAFT
- X-1 AIRCRAFT
- X-2 AIRCRAFT
- X-3 AIRCRAFT
- X-5 AIRCRAFT
- X-13 AIRCRAFT
- X-14 AIRCRAFT
- X-15 AIRCRAFT
- X-19 AIRCRAFT
- X-20 AIRCRAFT
- X-21 AIRCRAFT
- X-21A AIRCRAFT
- X-22 AIRCRAFT
- X-22A AIRCRAFT
- X-24 AIRCRAFT
- XH-51 HELICOPTER
- XV-4 AIRCRAFT
- XV-5 AIRCRAFT
- XV-8A AIRCRAFT
- XV-9A AIRCRAFT
- XV-11A AIRCRAFT
- RT AEROSPACE PLANES
- AIRCRAFT
- DRONE AIRCRAFT
- FAN IN WING AIRCRAFT
- FLIGHT TEST VEHICLES
- FLYING PLATFORMS
- GROUND EFFECT MACHINES
- HOVERCRAFT GROUND EFFECT MACHINES
- HYPERSOONIC AIRCRAFT
- JET AIRCRAFT
- JOINED WINGS
- METEOROLOGICAL RESEARCH AIRCRAFT
- MILITARY AIRCRAFT
- NUCLEAR PROPELLED AIRCRAFT
- ROCKET PLANES
- SUBMERSIBLE AIRCRAFT
- SUPERSONIC AIRCRAFT
- TAILLESS AIRCRAFT
- TANDEM WING AIRCRAFT
- TEST VEHICLES
- TILT WING AIRCRAFT
- V/STOL AIRCRAFT
- VERTICAL TAKEOFF AIRCRAFT
- WINGED VEHICLES
- YF-12 AIRCRAFT

## RESEARCH FACILITIES

- RT FACILITIES
- LABORATORIES
- RESEARCH PROJECTS
- SPACE INDUSTRIALIZATION
- SPACE LABORATORIES
- TEST FACILITIES

## RESEARCH PROJECTS

### ∞ RESEARCH PROJECTS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*

RT CHINESE SPACE PROGRAM  
EARTH & OCEAN PHYSICS APPLICATIONS PROGRAM  
FRENCH SPACE PROGRAM  
INDIAN SPACE PROGRAM  
JAPANESE SPACE PROGRAM  
MANAGEMENT  
NASA PROGRAMS  
PROGRAMS  
PROJECT MANAGEMENT  
PROJECTS  
RESEARCH  
RESEARCH AND DEVELOPMENT  
RESEARCH FACILITIES  
SPACE PROGRAMS  
SPHINX

### ∞ RESISTANCE

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*

UF CONDUCTANCE

RT RESISTANCE COEFFICIENTS  
ABRASION RESISTANCE  
ACCELERATION TOLERANCE  
ACOUSTIC PROPERTIES  
AERODYNAMIC DRAG  
CHEMICAL PROPERTIES  
CONSTRICTIONS  
CONTACT RESISTANCE  
CORROSION RESISTANCE  
CRACK PROPAGATION  
CREEP STRENGTH  
DAMPING  
DIFFUSIVITY  
DURABILITY  
EARTHQUAKE RESISTANCE  
ELECTRICAL PROPERTIES  
ELECTRICAL RESISTANCE  
ELECTRICAL RESISTIVITY  
FLAMMABILITY  
FLOW RESISTANCE  
FRACTURE STRENGTH  
FUSIBILITY

∞ HIGH RESISTANCE  
IMMUNITY  
IMPACT RESISTANCE  
IMPACT STRENGTH  
IMPEDANCE  
KAPITZA RESISTANCE  
LIFE (DURABILITY)

∞ LOW RESISTANCE  
MAGNETORESISTIVITY  
MOISTURE RESISTANCE  
NEGATIVE RESISTANCE CIRCUITS  
NEGATIVE RESISTANCE DEVICES  
OXIDATION RESISTANCE  
PERMEABILITY  
PREVENTION  
PROTECTION  
QUALITY  
RADIATION TOLERANCE  
RESISTANCE THERMOMETERS  
RETARDING  
SENSITIVITY  
SHOCK RESISTANCE  
SKIN RESISTANCE  
STABILITY  
THERMAL RESISTANCE  
TOLERANCES (PHYSIOLOGY)  
TRANSDUCANCE  
VULNERABILITY  
WAVE RESISTANCE  
WEAR RESISTANCE

**RESISTANCE COEFFICIENTS**  
USE RESISTANCE

### RESISTANCE HEATING

UF JOULE HEATING

GS HEATING

RT . RESISTANCE HEATING  
ARC HEATING  
ELECTROSLAG REFINING  
GAS HEATING  
LEVITATION MELTING

### RESISTANCE THERMOMETERS

GS MEASURING INSTRUMENTS  
TEMPERATURE MEASURING INSTRUMENTS

### RESISTANCE THERMOMETERS-(CONT.)

... THERMOMETERS  
... RESISTANCE THERMOMETERS

RT BOMOMETERS  
OHMMETERS

∞ RESISTANCE  
TEMPERATURE MEASUREMENT  
THERMOCOUPLE PYROMETERS

### RESISTOJET ENGINES

UF RESISTOJETS

GS ENGINES

... ROCKET ENGINES  
... ELECTRIC ROCKET ENGINES  
... ELECTROTHERMAL ENGINES

RT . . . RESISTOJET ENGINES  
ARC JET ENGINES  
PLASMA ENGINES  
PULSED JET ENGINES  
SPACE STATION PROPULSION

### RESISTOJETS

USE RESISTOJET ENGINES

### RESOLUTION

UF RESOLVING POWER

GS **RESOLUTION**  
ANGULAR RESOLUTION  
HIGH RESOLUTION  
IMAGE RESOLUTION  
RADAR RESOLUTION  
RADIOMETRIC RESOLUTION  
SPATIAL RESOLUTION  
SPECTRAL RESOLUTION  
TEMPORAL RESOLUTION

RT ACCURACY  
AUTOMATIC TRAFFIC ADVISORY AND RESOLUTION  
BLURRING  
CHARACTER RECOGNITION  
CONTRAST  
DEFINITION  
DYNAMIC CHARACTERISTICS  
ERRORS  
FOCI  
HIGH RESOLUTION COVERAGE  
ANTENNAS  
IMAGE CONTRAST  
IMAGE ENHANCEMENT  
LEGIBILITY  
LOCI

∞ OPTICS  
PERCEPTION

∞ POWER  
PRECISION  
RESOLUTION CELL  
SENSITIVITY  
SPATIAL FILTERING  
STARK EFFECT

∞ THRESHOLDS  
TOLERANCES (MECHANICS)  
VISIBILITY  
VISION

### RESOLVING POWER

USE RESOLUTION

### RESONANT VIBRATION

UF MECHANICAL RESONANCE

GS RESONANCE  
RESONANT VIBRATION  
VIBRATION

RT . RESONANT VIBRATION  
DAMPING  
DYNAMIC STABILITY

∞ DYNAMICS  
FLAPPING  
FLUTTER  
MECHANICAL OSCILLATORS  
OSCILLATIONS  
Q FACTORS  
STABLE OSCILLATIONS  
STRUCTURAL VIBRATION  
UNDAMPED OSCILLATIONS

### RESTARTABLE ROCKET ENGINES

GS ENGINES  
ROCKET ENGINES

RT . RESTARTABLE ROCKET ENGINES  
DUCTED ROCKET ENGINES  
ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
ELECTROTHERMAL ENGINES  
HYBRID PROPELLANT ROCKET ENGINES  
ION ENGINES

### RESTARTABLE ROCKET ENGINES-(CONT.)

LIQUID PROPELLANT ROCKET ENGINES  
NUCLEAR ROCKET ENGINES  
RETROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
SUSTAINER ROCKET ENGINES  
TURBOROCKET ENGINES  
VERNIER ENGINES

### RESTRICTIONS

USE CONSTRICTIONS

### RETAINING

RT ASTEROID CAPTURE  
CONSTRAINTS  
CONTAINMENT

∞ HOLDING

∞ JOINING  
LOCKING

∞ RETENTION  
SEALING

∞ STORAGE

### RETARDANTS

GS **RETARDANTS**  
FLAME RETARDANTS

RT ACCELERATING AGENTS  
ADDITIVES  
ANTIICING ADDITIVES  
ANTIKNOCK ADDITIVES  
ANTIOXIDANTS  
CATALYSTS  
EXPLOSION SUPPRESSION  
INHIBITORS  
NEUTRALIZERS  
PENETRANTS  
PRESERVATIVES

∞ RETARDERS  
RETARDING  
STABILIZERS (AGENTS)  
SUPPRESSORS  
SURFACTANTS  
WEAR INHIBITORS

### ∞ RETARDERS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*

RT RETARDANTS  
RETARDERS (DEVICES)

### RETARDING

UF SUPPRESSION

RT ATTENUATION  
BLOCKING  
BRAKING  
DAMPING  
DECELERATION  
FOULING  
HYSTERESIS  
PREVENTION

∞ REDUCTION

∞ RESISTANCE  
RETARDANTS  
RETARDERS (DEVICES)  
STOPPING

**RETARDING ION MASS SPECTROMETERS**  
USE MASS SPECTROMETERS

### RETORC (TORPEDOES)

USE TORPEDOES

### RETRACTABLE EQUIPMENT

UF RETRACTABLE LANDING GEAR

RT AERODYNAMIC BRAKES  
LANDING GEAR  
REFUELING

### RETRACTABLE LANDING GEAR

USE LANDING GEAR  
RETRACTABLE EQUIPMENT

### RETROACTION

USE RETROTHRUST

### RETROFIRING

GS FIRING (IGNITING)  
ROCKET FIRING

RT . . RETROFIRING  
DECELERATION  
RETROCKET ENGINES  
RETROTHRUST



**RETROCKET ENGINES**

GS ENGINES  
 . ROCKET ENGINES  
 . . RETROCKET ENGINES  
 . . . BE-3 ENGINE  
 RT CONTROL ROCKETS  
 INTERNAL COMBUSTION ENGINES  
 LIQUID PROPELLANT ROCKET ENGINES  
 MAN OPERATED PROPULSION SYSTEMS  
 RESTARTABLE ROCKET ENGINES  
 RETROFIRING  
 RETROTHRUST  
 SOLID PROPELLANT ROCKET ENGINES

**RETROTHRUST**

UF RETROACTION  
 GS THRUST  
 . ROCKET THRUST  
 . . RETROTHRUST  
 RT DECELERATION  
 RETROFIRING  
 RETROCKET ENGINES

**RETURN TO EARTH SPACE FLIGHT**

GS SPACE FLIGHT  
 . RETURN TO EARTH SPACE FLIGHT  
 RT INTERPLANETARY FLIGHT  
 MANNED MARS MISSIONS  
 SPACECRAFT REENTRY

**REUSABLE LAUNCH VEHICLES**

GS LAUNCH VEHICLES  
 . REUSABLE LAUNCH VEHICLES  
 . . SINGLE STAGE TO ORBIT VEHICLES  
 . . . HOTOL LAUNCH VEHICLE  
 RT ADVANCED LAUNCH SYSTEM (STS)  
 AEROMANEUVERING ORBIT TO ORBIT  
 SHUTTLE  
 RECOVERABLE LAUNCH VEHICLES  
 ROCKET ENGINES  
 SPACECRAFT LAUNCHING  
 SPACECRAFT RECOVERY  
 ∞ VEHICLES

**REVERSED FLOW**

GS FLUID FLOW  
 . REVERSED FLOW  
 RT BOUNDARY LAYER SEPARATION  
 RECIRCULATIVE FLUID FLOW  
 REVERSING  
 SEPARATED FLOW

**REVOLUTION (MOTION)**

USE REVOLVING

**REVOLVING**

UF REVOLUTION (MOTION)  
 GS GYRATION  
 . REVOLVING  
 RT ANGULAR VELOCITY  
 CENTRIPETAL FORCE  
 ROTATION

**REYNOLDS EQUATION**

UF REYNOLDS LAW  
 GS EQUATIONS OF MOTION  
 . REYNOLDS EQUATION  
 FLOW EQUATIONS  
 . REYNOLDS EQUATION  
 AERODYNAMIC CONFIGURATIONS  
 ∞ EQUATIONS  
 NAVIER-STOKES EQUATION  
 SCALE MODELS

**REYNOLDS LAW**

USE REYNOLDS EQUATION

**REYNOLDS NUMBER**

UF CRITICAL REYNOLDS NUMBER  
 GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . . REYNOLDS NUMBER  
 . . . HIGH REYNOLDS NUMBER  
 . . . LOW REYNOLDS NUMBER  
 RT BOUNDARY LAYER FLOW  
 BOUNDARY LAYER STABILITY  
 BOUNDARY LAYER TRANSITION  
 FLUID FLOW  
 FROUDE NUMBER  
 GRASHOF NUMBER  
 INVISCID FLOW  
 LAMINAR FLOW  
 PECLET NUMBER  
 PRANDTL NUMBER

**REYNOLDS NUMBER-(CONT.)**

RICHARDSON NUMBER  
 SCALE EFFECT  
 TRANSITION POINTS  
 TURBULENT FLOW  
 VISCOUS FLOW

**REYNOLDS STRESS**

GS STRESSES  
 . REYNOLDS STRESS  
 RT INCOMPRESSIBLE FLOW  
 NAVIER-STOKES EQUATION  
 TURBULENT BOUNDARY LAYER  
 TURBULENT FLOW

**RF-4 AIRCRAFT**

GS MCDONNELL DOUGLAS AIRCRAFT  
 . MCDONNELL AIRCRAFT  
 . . RF-4 AIRCRAFT  
 MONOPLANES  
 . RF-4 AIRCRAFT  
 OBSERVATION AIRCRAFT  
 . RF-4 AIRCRAFT  
 SUPERSONIC AIRCRAFT  
 . RF-4 AIRCRAFT  
 RT ∞ AIRCRAFT  
 F-4 AIRCRAFT

**RF-8 AIRCRAFT**

USE F-8 AIRCRAFT

**RH-2 HELICOPTER**

USE UH-1 HELICOPTER

**RHEOLOGY**

RT ELECTORRHEOLOGICAL FLUIDS  
 FLOW MEASUREMENT  
 FLOW THEORY  
 ∞ FLUIDS  
 LIQUID FLOW  
 MAXWELL FLUIDS  
 NONNEWTONIAN FLUIDS  
 PLASTIC FLOW  
 PLASTIC PROPERTIES  
 VISCOSITY

**RHEOMETERS**

GS MEASURING INSTRUMENTS  
 . FLOWMETERS  
 . . RHEOMETERS  
 RT BLOOD CIRCULATION

**RIBBON PARACHUTES**

GS PARACHUTES  
 . RIBBON PARACHUTES  
 RT DRAG CHUTES  
 RECOVERY PARACHUTES

**RIBBONS**

RT CONVEYORS  
 FABRICS  
 FASTENERS  
 METAL STRIPS  
 ∞ STRIP  
 ∞ TAPES

**RIBLETS**

GS GROOVES  
 . V GROOVES  
 . . RIBLETS  
 RT BOUNDARY LAYER CONTROL  
 DRAG REDUCTION  
 FRICTION DRAG  
 SHEAR LAYERS  
 SKIN FRICTION  
 STRIATION  
 TURBULENT BOUNDARY LAYER  
 VORTEX ALLEVIATION

**RICHARDSON NUMBER**

GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . . RICHARDSON NUMBER  
 RT AERODYNAMIC STABILITY  
 REYNOLDS NUMBER  
 SHEAR FLOW

**RICHARDSON-DUSHMAN EQUATION**

USE TEMPERATURE EFFECTS  
 THERMIONIC EMISSION

**∞ RIDGES**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW  
 UF CUESTAS  
 HOGBACKS  
 RT BRIDGES (LANDFORMS)  
 BUCKLING  
 CORRUGATING  
 GAPS (GEOLOGY)  
 KARST  
 LANDFORMS  
 MOUNTAINS  
 PROTUBERANCES  
 WRINKLING

**RIGGING**

RT ASSEMBLING  
 CONSTRUCTION  
 ∞ EQUIPMENT  
 MATERIALS HANDLING  
 SHROUDS

**RIGID MOUNTING**

GS MOUNTING  
 . RIGID MOUNTING  
 RT PYLON MOUNTING

**RIGID ROTOR HELICOPTERS**

GS V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . HELICOPTERS  
 . . . RIGID ROTOR HELICOPTERS  
 . . . . CH-3 HELICOPTER  
 . . . . F-28 HELICOPTER  
 . . . . XH-51 HELICOPTER  
 RT ∞ AIRCRAFT  
 OH-5 HELICOPTER

**RIGID ROTORS**

UF HINGELESS ROTORS  
 GS AIRFOILS  
 . WINGS  
 . . ROTARY WINGS  
 . . . RIGID ROTORS  
 RIGID STRUCTURES  
 . RIGID ROTORS  
 ROTATING BODIES  
 . ROTORS  
 . . ROTARY WINGS  
 . . . RIGID ROTORS  
 RT BEARINGLESS ROTORS

**RIGID WINGS**

SN (EXCLUDES 'RIGID ROTORS')  
 GS AIRFOILS  
 . WINGS  
 . . RIGID WINGS  
 RIGID STRUCTURES  
 . RIGID WINGS  
 RT AEROELASTICITY  
 FIXED WINGS  
 FLEXIBLE WINGS  
 LOW ASPECT RATIO WINGS

**RIMS**

RT ∞ BLADES  
 BORDERS  
 EDGES  
 MARGINS  
 SIDES

**RING WINGS**

GS AIRFOILS  
 . WINGS  
 . . UNCAMBERED WINGS  
 . . . RING WINGS  
 . . . UNSWEPT WINGS  
 . . . RING WINGS  
 RING STRUCTURES  
 . RING WINGS  
 RT DUCTED FANS  
 SHROUDED PROPELLERS  
 TWISTED WINGS

**RIOMETERS**

GS MEASURING INSTRUMENTS  
 . RADIATION MEASURING INSTRUMENTS  
 . . RIOMETERS  
 RT ATMOSPHERIC IONIZATION  
 AURORAL ABSORPTION  
 IONOGRAMS  
 IONOSONDES  
 IONOSPHERIC NOISE  
 IONOSPHERIC PROPAGATION

## RIPPLES

### RIPPLES

GS ELASTIC WAVES  
CAPILLARY WAVES  
RIPPLES  
SURFACE WAVES  
CAPILLARY WAVES  
RIPPLES  
RT GRAVITY WAVES  
INTERFACIAL TENSION  
WATER WAVES  
WIND (METEOROLOGY)

### RITZ AVERAGING METHOD

GS ANALYSIS (MATHEMATICS)  
NUMERICAL ANALYSIS  
APPROXIMATION  
RITZ AVERAGING METHOD  
RT METHODOLOGY

### ROBIN BALLOONS

GS EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
BALLOONS  
METEOROLOGICAL BALLOONS  
ROBIN BALLOONS  
RT HIGH ALTITUDE BALLOONS  
RADIOSONDES  
ROCKOONS  
SKYHOOK BALLOONS  
SOUNDING

### ROBUSTNESS (MATHEMATICS)

RT ALGORITHMS  
CONTROL STABILITY  
CONTROL THEORY  
FEEDBACK CONTROL  
LINEAR SYSTEMS  
MATHEMATICAL MODELS

### ROCKET BOOSTERS

USE BOOSTER ROCKET ENGINES

### ROCKET CHAMBERS

USE THRUST CHAMBERS

### ROCKET ENGINE NOISE

GS ELASTIC WAVES  
SOUND WAVES  
NOISE (SOUND)  
ENGINE NOISE  
ROCKET ENGINE NOISE  
RT MUFFLERS

### ROCKET FIRING

GS FIRING (IGNITING)  
ROCKET FIRING  
RETROFIRING  
RT BURNING TIME  
DETONATION  
LIFTOFF (LAUNCHING)  
STATIC FIRING  
TEST FIRING

### ROCKET FLIGHT

RT CLIMBING FLIGHT  
COASTING FLIGHT  
FLIGHT  
FLIGHT PATHS  
HORIZONTAL FLIGHT  
HYPERSONIC FLIGHT  
METEOROLOGICAL FLIGHT  
SPACE FLIGHT  
SUBORBITAL FLIGHT  
SUPERSONIC FLIGHT  
TRAJECTORIES  
TRANSONIC FLIGHT  
VERTICAL FLIGHT

### ROCKET LAUNCHERS

GS LAUNCHERS  
ROCKET LAUNCHERS  
ROCKET CATAPULTS  
RT GROUND SUPPORT EQUIPMENT  
GUN LAUNCHERS  
LAUNCH VEHICLES  
LAUNCHING  
LAUNCHING SITES  
MISSILE LAUNCHERS  
ROCKETS  
ROCKOONS  
SEA LAUNCHING

### ROCKET LAUNCHING

UF BLASTOFF

### ROCKET LAUNCHING-(CONT.)

GS LAUNCHING  
ROCKET LAUNCHING  
LIFTOFF (LAUNCHING)  
LUNAR LAUNCH  
ORBITAL LAUNCHING  
RT EXHAUST CLOUDS  
LAUNCH VEHICLES  
LAUNCH WINDOWS  
LAUNCHERS  
SPACECRAFT LAUNCHING

### ROCKET OXIDIZERS

UF PROPELLANT OXIDIZERS  
GS OXIDIZERS  
ROCKET OXIDIZERS  
FLOX  
TAGN  
RT CRYOGENIC FLUIDS  
DOMINO PROPELLANTS  
HIGH ENERGY OXIDIZERS  
HYDROGEN PEROXIDE  
LIQUID OXIDIZERS  
LIQUID OXYGEN  
NITROGEN TETROXIDE  
NITRONIUM PERCHLORATE  
TATB  
TETRAFLUOROHYDRAZINE

### ROCKET PLANES

GS ROCKET VEHICLES  
ROCKET PLANES  
X-1 AIRCRAFT  
X-2 AIRCRAFT  
X-15 AIRCRAFT  
RT AEROSPACE PLANES  
AIRCRAFT  
BOOSTGLIDE VEHICLES  
RESEARCH AIRCRAFT

### ROCKET TEST FACILITIES

GS TEST FACILITIES  
ROCKET TEST FACILITIES  
RT ENGINE TESTS  
TEST FIRING  
TEST RANGES  
TEST STANDS

### ROCKET THRUST

GS THRUST  
ROCKET THRUST  
RETROTHRUST  
RT HIGH THRUST  
JET THRUST  
LIFTOFF (LAUNCHING)  
LOW THRUST  
LOW THRUST PROPULSION  
MICROTHRUST  
PROPULSION SYSTEM PERFORMANCE  
SPECIFIC IMPULSE  
STATIC THRUST  
THRUST LOADS  
THRUST TERMINATION  
VARIABLE THRUST

### ROCKET VEHICLES

GS ROCKET VEHICLES  
ARCON ROCKET VEHICLE  
BLUE STREAK LAUNCH VEHICLE  
BLUE STREAK MISSILE  
CENTAUR LAUNCH VEHICLE  
ATLAS CENTAUR LAUNCH VEHICLE  
FOLDING FIN AIRCRAFT ROCKET VEHICLE  
HOVERING ROCKET VEHICLES  
METEOR 1 ROCKET VEHICLE  
MULTISTAGE ROCKET VEHICLES  
ABLESTAR LAUNCH VEHICLE  
ANTARES ROCKET VEHICLE  
ARGO ROCKET VEHICLES  
ARIANE LAUNCH VEHICLE  
ASTROBEE ROCKET VEHICLES  
ASTROBEE 1500 ROCKET VEHICLE  
ATHENA ROCKET VEHICLE  
ATLAS LAUNCH VEHICLES  
ATLAS ABLE 5 LAUNCH VEHICLE  
ATLAS AGENA B LAUNCH VEHICLE  
ATLAS AGENA LAUNCH VEHICLES  
ATLAS CENTAUR LAUNCH VEHICLE  
ATLAS SLV-3 LAUNCH VEHICLE  
BERENICE ROCKET VEHICLE  
BLACK KNIGHT ROCKET VEHICLE  
BLUE SCOUT ROCKET VEHICLE  
DIAMANT LAUNCH VEHICLE  
ELDO LAUNCH VEHICLE

### ROCKET VEHICLES-(CONT.)

EXOS SOUNDING ROCKET  
JAGUAR ROCKET VEHICLE  
JAVELIN ROCKET VEHICLE  
JUNO LAUNCH VEHICLES  
JUNO 1 LAUNCH VEHICLE  
JUNO 2 LAUNCH VEHICLE  
JUPITER C ROCKET VEHICLE  
KAPPA ROCKET VEHICLES  
KAPPA 8 ROCKET VEHICLE  
KAPPA 9 ROCKET VEHICLE  
LAMBDA ROCKET VEHICLES  
LITTLE JOE 2 LAUNCH VEHICLE  
NIKE ROCKET VEHICLES  
NIKE-APACHE ROCKET VEHICLE  
NIKE-CAJUN ROCKET VEHICLE  
NIKE-HYDAC ROCKET VEHICLE  
NIKE-IROQUOIS ROCKET VEHICLE  
NIKE-JAVELIN ROCKET VEHICLE  
NIKE-TOMAHAWK ROCKET VEHICLE  
NOVA LAUNCH VEHICLES  
PEGASUS AIR-LAUNCHED BOOSTER  
PHOENIX SOUNDING ROCKET  
RAM B LAUNCH VEHICLE  
RUBIS ROCKET VEHICLE  
SATURN LAUNCH VEHICLES  
SATURN D LAUNCH VEHICLE  
SATURN 1 LAUNCH VEHICLES  
SATURN 1 SA-1 LAUNCH VEHICLE  
SATURN 1 SA-2 LAUNCH VEHICLE  
SATURN 1 SA-3 LAUNCH VEHICLE  
SATURN 1 SA-4 LAUNCH VEHICLE  
SATURN 1 SA-5 LAUNCH VEHICLE  
SATURN 1 SA-6 LAUNCH VEHICLE  
SATURN 1 SA-7 LAUNCH VEHICLE  
SATURN 1 SA-8 LAUNCH VEHICLE  
SATURN 1 SA-9 LAUNCH VEHICLE  
SATURN 1 SA-10 LAUNCH VEHICLE  
SATURN 1B LAUNCH VEHICLES  
SATURN 2 LAUNCH VEHICLES  
SATURN 5 LAUNCH VEHICLES  
SCOUT LAUNCH VEHICLE  
SKYLARK ROCKET VEHICLE  
THOR LAUNCH VEHICLES  
THOR ABLE ROCKET VEHICLE  
THOR AGENA LAUNCH VEHICLE  
THOR DELTA LAUNCH VEHICLE  
TITAN LAUNCH VEHICLES  
TITAN 3 LAUNCH VEHICLE  
VANGUARD 2 LAUNCH VEHICLE  
VEGA LAUNCH VEHICLE  
WASP SOUNDING ROCKET  
PAYLOAD ASSIST MODULE  
ROCKET PLANES  
X-1 AIRCRAFT  
X-2 AIRCRAFT  
X-15 AIRCRAFT  
SATURN STAGES  
SATURN S-1 STAGE  
SATURN S-1B STAGE  
SATURN S-1C STAGE  
SATURN S-2 STAGE  
SATURN S-4 STAGE  
SATURN S-4B STAGE  
SINGLE STAGE ROCKET VEHICLES  
AGENA ROCKET VEHICLES  
AGENA A ROCKET VEHICLE  
AGENA B ROCKET VEHICLE  
AGENA C ROCKET VEHICLE  
AGENA D ROCKET VEHICLE  
ARCAS ROCKET VEHICLES  
BLACK BRANT SOUNDING ROCKETS  
BLACK BRANT 1 SOUNDING ROCKET  
BLACK BRANT 2 SOUNDING ROCKET  
BLACK BRANT 3 SOUNDING ROCKET  
BLACK BRANT 4 SOUNDING ROCKET  
BLACK BRANT 5 SOUNDING ROCKET  
BLACK KNIGHT ROCKET VEHICLE  
DORNIER PARAGLIDER ROCKET VEHICLE  
GENIE ROCKET VEHICLE  
HONEST JOHN ROCKET VEHICLE  
HYLA-STAR ROCKET VEHICLE  
LITTLE JOHN ROCKET VEHICLE  
LOKI ROCKET VEHICLE  
NOMAD LAUNCH VEHICLE  
VERONIQUE ROCKET VEHICLES  
VIKING ROCKET VEHICLE  
ZUNI ROCKET VEHICLE  
SOUNDING ROCKETS

ROCKET VEHICLES-(CONT.)

... AEROBEE ROCKET VEHICLE  
 ... ANTARES ROCKET VEHICLE  
 ... APACHE ROCKET VEHICLE  
 ... ARCAS ROCKET VEHICLES  
 ... ARIES SOUNDING ROCKET  
 ... ASP ROCKET VEHICLE  
 ... ASTROBEE ROCKET VEHICLES  
 ... ASTROBEE 1500 ROCKET VEHICLE  
 ... BLACK BRANT SOUNDING ROCKETS  
 ... BLACK BRANT 1 SOUNDING  
 ROCKET  
 ... BLACK BRANT 2 SOUNDING  
 ROCKET  
 ... BLACK BRANT 3 SOUNDING  
 ROCKET  
 ... BLACK BRANT 4 SOUNDING  
 ROCKET  
 ... BLACK BRANT 5 SOUNDING  
 ROCKET  
 ... CAJUN ROCKET VEHICLE  
 ... DORNIER PARAGLIDER ROCKET  
 VEHICLE  
 ... EXOS SOUNDING ROCKET  
 ... JAGUAR ROCKET VEHICLE  
 ... JUDI-DART ROCKET  
 ... KAPPA ROCKET VEHICLES  
 ... KAPPA 8 ROCKET VEHICLE  
 ... KAPPA 9 ROCKET VEHICLE  
 ... LAMBDA ROCKET VEHICLES  
 ... LOKI ROCKET VEHICLE  
 ... PETREL SOUNDING ROCKET  
 ... PHOENIX SOUNDING ROCKET  
 ... SKUA ROCKET VEHICLES  
 ... SKYLARK ROCKET VEHICLE  
 ... VENUS FLY TRAP ROCKET VEHICLE  
 ... VERONIQUE ROCKET VEHICLES  
 ... VERTICAL 8 ROCKET  
 ... WASP SOUNDING ROCKET  
 ... STANDARD LAUNCH VEHICLES  
 ... ATLAS SLV-3 LAUNCH VEHICLE  
 ... STANDARD LAUNCH VEHICLE 5  
 ... SURFACE TO SURFACE ROCKETS  
 ... HONEST JOHN ROCKET VEHICLE  
 ... LITTLE JOHN ROCKET VEHICLE  
 ... THORAD LAUNCH VEHICLES  
 ... THOR ABLE ROCKET VEHICLE  
 ... THOR AGENA LAUNCH VEHICLE  
 ... THOR DELTA LAUNCH VEHICLE  
 ... TITAN CENTAUR LAUNCH VEHICLE  
 RT ACOUSTIC SOUNDING  
 ∞ BALLISTIC VEHICLES  
 ∞ FLIGHT VEHICLES  
 HEUS ROCKET ENGINES  
 LAUNCH VEHICLES  
 MISSILE CONFIGURATIONS  
 MULTIENGINE VEHICLES  
 ∞ ROCKETS  
 SPACE PROCESSING APPLICATIONS  
 ROCKET  
 STAGE SEPARATION  
 TEST VEHICLES  
 TRAILBLAZER 1 REENTRY VEHICLE  
 TRAILBLAZER 2 REENTRY VEHICLE  
 ∞ VEHICLES  
 ∞ WINGED VEHICLES  
 X-17 REENTRY VEHICLE

ROCKET-BORNE INSTRUMENTS

RT CONTROLLERS  
 FLIGHT TEST INSTRUMENTS  
 ∞ INSTRUMENTS  
 MEASURING INSTRUMENTS  
 METEOROLOGICAL INSTRUMENTS  
 POSITION INDICATORS

ROCKET-BORNE PHOTOGRAPHY

GS IMAGERY  
 ... ROCKET-BORNE PHOTOGRAPHY  
 PHOTOGRAPHY  
 ... ROCKET-BORNE PHOTOGRAPHY  
 RT AERIAL PHOTOGRAPHY  
 ASTRONOMICAL PHOTOGRAPHY  
 BLACK AND WHITE PHOTOGRAPHY  
 PHOTOMAPPING  
 SATELLITE-BORNE PHOTOGRAPHY  
 SPACEBORNE PHOTOGRAPHY

∞ ROCKETS

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT AIR SLEW MISSILES  
 AMMUNITION  
 ESCAPE ROCKETS

ROCKETS-(CONT.)

HEAVY LIFT LAUNCH VEHICLES  
 INCENDIARY AMMUNITION  
 LAUNCH VEHICLES  
 MISSILES  
 NUCLEAR RAMJET ENGINES  
 NUCLEAR ROCKET ENGINES  
 NUCLEAR WEAPONS  
 PATRIOT MISSILE  
 PETREL SOUNDING ROCKET  
 PYROTECHNICS  
 REENTRY  
 REENTRY VEHICLES  
 ROCKET CATAPULTS  
 ROCKET ENGINES  
 ROCKET LAUNCHERS  
 ROCKET VEHICLES  
 ROCKOONS  
 SPACE FLIGHT  
 SURFACE TO AIR MISSILES  
 SURFACE TO SURFACE MISSILES  
 SURFACE TO SURFACE ROCKETS  
 TORPEDOES  
 VERTICAL 8 ROCKET  
 WARHEADS  
 WEAPON SYSTEMS  
 WEAPONS DELIVERY

ROCKOONS

RT HIGH ALTITUDE BALLOONS  
 METEOROLOGICAL BALLOONS  
 ROBIN BALLOONS  
 ROCKET LAUNCHERS  
 ∞ ROCKETS  
 SKYHOOK BALLOONS

ROGALLO WINGS

USE FLEXIBLE WINGS  
 FOLDING STRUCTURES

ROLL

UF DAMPING IN ROLL  
 GS ATTITUDE (INCLINATION)  
 ... ROLL  
 RT LATERAL CONTROL  
 LATERAL OSCILLATION  
 LATERAL STABILITY  
 PITCH (INCLINATION)  
 ROLLERS  
 ∞ ROLLING  
 ROLLING MOMENTS  
 ROTATION  
 SIDESLIP  
 TURNING FLIGHT  
 YAW

ROLL CONTROL

USE LATERAL CONTROL

∞ ROLLING

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT AUSFORMING  
 FLATTENING  
 FORGING  
 LEVELING  
 METAL WORKING  
 ROLL

ROLLING MOMENTS

GS MOMENTS  
 ... STABILITY DERIVATIVES  
 ... ROLLING MOMENTS  
 RT AERODYNAMIC COEFFICIENTS  
 LATERAL STABILITY  
 MOMENTS OF INERTIA  
 PITCHING MOMENTS  
 ROLL  
 TORQUE  
 YAWING MOMENTS

ROOMS

GS ROOMS  
 ... CLEAN ROOMS  
 ... DARKROOMS  
 RT COMPARTMENTS  
 ENCLOSURES  
 ∞ LOUNGES

∞ ROOTS

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT PLANT ROOTS

ROOTS-(CONT.)

RADICALS  
 ROOTS OF EQUATIONS  
 WING ROOTS

ROSHKO PREDICTION

GS PREDICTIONS  
 ... ROSHKO PREDICTION  
 RT BLUFF BODIES  
 LAMINAR FLOW  
 OSEEN APPROXIMATION  
 THREE DIMENSIONAL FLOW

ROSSBY REGIMES

RT BAROTROPIC FLOW  
 PLANETARY WAVES

ROTARY GYROSCOPES

GS GYROSCOPES  
 ... ROTARY GYROSCOPES  
 ... FLUID ROTOR GYROSCOPES  
 RT GYROSCOPE FLUIDS  
 GYROSCOPIC STABILITY  
 ROTATING BODIES

ROTARY STABILITY

UF WHIRL INSTABILITY  
 GS DYNAMIC CHARACTERISTICS  
 ... DYNAMIC STABILITY  
 ... MOTION STABILITY  
 ... ROTARY STABILITY  
 ... GYROSCOPIC STABILITY  
 STABILITY  
 ... DYNAMIC STABILITY  
 ... MOTION STABILITY  
 ... ROTARY STABILITY  
 ... GYROSCOPIC STABILITY  
 RT AIRFOIL OSCILLATIONS  
 DIRECTIONAL STABILITY  
 FLOW STABILITY  
 LATERAL STABILITY  
 LONGITUDINAL STABILITY  
 ROTATING BODIES  
 ROTATION  
 ROTOR DYNAMICS

ROTARY WING AIRCRAFT

UF ROTORCRAFT  
 GS V/STOL AIRCRAFT  
 ... ROTARY WING AIRCRAFT  
 ... AUTOGYROS  
 ... AVIAN 2/180 AUTOGIRO  
 ... HELICOPTERS  
 ... ALOUETTE HELICOPTERS  
 ... SA-330 HELICOPTER  
 ... SE-3160 HELICOPTER  
 ... COMPOUND HELICOPTERS  
 ... H-17 HELICOPTER  
 ... LIGHT HELICOPTERS  
 ... OH-4 HELICOPTER  
 ... OH-5 HELICOPTER  
 ... OH-6 HELICOPTER  
 ... OH-58 HELICOPTER  
 ... MILITARY HELICOPTERS  
 ... AH-1G HELICOPTER  
 ... AH-64 HELICOPTER  
 ... BELL 214A HELICOPTER  
 ... BO-105 HELICOPTER  
 ... CH-3 HELICOPTER  
 ... CH-21 HELICOPTER  
 ... CH-34 HELICOPTER  
 ... CH-46 HELICOPTER  
 ... CH-47 HELICOPTER  
 ... CH-54 HELICOPTER  
 ... H-19 HELICOPTER  
 ... H-43 HELICOPTER  
 ... H-53 HELICOPTER  
 ... H-54 HELICOPTER  
 ... H-56 HELICOPTER  
 ... H-60 HELICOPTER  
 ... HC-3 HELICOPTER  
 ... HEAVY LIFT HELICOPTERS  
 ... CH-62 HELICOPTER  
 ... HH-43 HELICOPTER  
 ... OH-4 HELICOPTER  
 ... OH-5 HELICOPTER  
 ... OH-6 HELICOPTER  
 ... OH-13 HELICOPTER  
 ... OH-23 HELICOPTER  
 ... OH-58 HELICOPTER  
 ... P-531 HELICOPTER  
 ... QH-50 HELICOPTER  
 ... S-58 HELICOPTER  
 ... S-61 HELICOPTER  
 ... SA-321 HELICOPTER

## ROTARY WINGS

### ROTARY WING AIRCRAFT-(CONT.)

- ..... SA-330 HELICOPTER
- ..... SH-3 HELICOPTER
- ..... SH-4 HELICOPTER
- ..... SIKORSKY WHIRLWIND HELICOPTER
- ..... UH-1 HELICOPTER
- ..... UH-2 HELICOPTER
- ..... UH-34 HELICOPTER
- ..... UH-60A HELICOPTER
- ..... UH-61A HELICOPTER
- ..... WESTLAND WHIRLWIND HELICOPTER
- ..... XV-9A AIRCRAFT
- ..... RIGID ROTOR HELICOPTERS
- ..... CH-3 HELICOPTER
- ..... F-28 HELICOPTER
- ..... XH-51 HELICOPTER
- ..... TANDEM ROTOR HELICOPTERS
- ..... CH-46 HELICOPTER
- ..... CH-47 HELICOPTER
- ..... H-25 HELICOPTER
- ..... TH-55 HELICOPTER
- ..... ROTOR SYSTEMS RESEARCH AIRCRAFT
- ..... TILT ROTOR AIRCRAFT
- ..... V-22 AIRCRAFT
- ..... XV-15 AIRCRAFT
- RT  $\infty$  AIRCRAFT
- ..... AUTOROTATION
- ..... COMMERCIAL AIRCRAFT
- ..... LIFTING ROTORS
- ..... MILITARY AIRCRAFT
- ..... PASSENGER AIRCRAFT
- ..... ROTORCRAFT AIRCRAFT
- ..... SHORT TAKEOFF AIRCRAFT
- ..... SUBSONIC AIRCRAFT
- ..... TRANSPORT AIRCRAFT
- ..... VERTICAL TAKEOFF AIRCRAFT
- ..... WESER AIRCRAFT
- ..... WESTLAND AIRCRAFT

### ROTARY WINGS

- UF HELICOPTER ROTORS
- ..... HINGED ROTOR BLADES
- GS AIRFOILS
- ..... WINGS
- ..... ROTARY WINGS
- ..... CIRCULATION CONTROL ROTORS
- ..... LIFTING ROTORS
- ..... BEARINGLESS ROTORS
- ..... RIGID ROTORS
- ..... TILTING ROTORS
- ..... TIP DRIVEN ROTORS
- ..... X WING ROTORS
- ..... ROTATING BODIES
- ..... ROTORS
- ..... ROTARY WINGS
- ..... CIRCULATION CONTROL ROTORS
- ..... LIFTING ROTORS
- ..... BEARINGLESS ROTORS
- ..... RIGID ROTORS
- ..... TILTING ROTORS
- ..... TIP DRIVEN ROTORS
- ..... X WING ROTORS
- RT BLADE TIPS
- ..... BLADE-VORTEX INTERACTION
- $\infty$  BLADES
- ..... CONVERTIBLE FAN-SHAFT ENGINES
- ..... FAN BLADES
- ..... FLAPPING HINGES
- ..... FOLDING STRUCTURES
- ..... GROUND RESONANCE
- ..... HARMONIC CONTROL
- ..... HELICOPTER PROPELLER DRIVE
- ..... HELICOPTER TAIL ROTORS
- ..... LIFT FANS
- ..... PROPELLER BLADES
- $\infty$  ROTOR BLADES
- ..... ROTOR DYNAMICS
- ..... TAIL ROTORS
- ..... TILT ROTOR RESEARCH AIRCRAFT PROGRAM
- ..... V-22 AIRCRAFT
- ..... WHIRL TOWERS

### ROTATING BODIES

- UF ROTATING VEHICLES
- ..... SOLID ROTATION
- GS ROTATING BODIES
- ..... LUNAR ROTATION
- ..... ROTATING CYLINDERS
- ..... ROTATING DISKS
- ..... ROTATING SPHERES
- ..... ROTORS

### ROTATING BODIES-(CONT.)

- ..... COMPRESSOR ROTORS
- ..... FLYWHEELS
- ..... IMPELLERS
- ..... PUMP IMPELLERS
- ..... ROTARY WINGS
- ..... CIRCULATION CONTROL ROTORS
- ..... LIFTING ROTORS
- ..... BEARINGLESS ROTORS
- ..... RIGID ROTORS
- ..... TILTING ROTORS
- ..... TIP DRIVEN ROTORS
- ..... X WING ROTORS
- ..... TAIL ROTORS
- ..... HELICOPTER TAIL ROTORS
- ..... TIP VANES
- ..... TURBINE WHEELS
- RT AXES OF ROTATION
- $\infty$  BODIES
- ..... PLANETARY ROTATION
- ..... ROCHE LIMIT
- ..... ROTARY GYROSCOPES
- ..... ROTARY STABILITY
- ..... ROTATION
- ..... SPINNING UNGUIDED ROCKET TRAJECTORY

### ROTATING CYLINDERS

- GS ROTATING BODIES
- ..... ROTATING CYLINDERS
- ..... SYMMETRICAL BODIES
- ..... BODIES OF REVOLUTION
- ..... CYLINDRICAL BODIES
- RT ROTATING CYLINDERS
- $\infty$  COUETTE FLOW
- ..... CYLINDERS
- ..... CYLINDRICAL SHELLS
- ..... ELASTOHYDRODYNAMICS
- ..... MAGNUS EFFECT
- ..... SHAFTS (MACHINE ELEMENTS)
- ..... VISCOMETERS
- ..... VISCOMETRY

### ROTATING DISKS

- GS DISKS (SHAPES)
- ..... ROTATING DISKS
- ..... ROTATING BODIES
- ..... ROTATING DISKS
- RT ACCRETION DISKS
- ..... COUNTER ROTATION
- ..... KARMAN-BODEWADT FLOW

### ROTATING FLUIDS

- GS ROTATING FLUIDS
- ..... ROTATING LIQUIDS
- RT COUNTER ROTATION
- $\infty$  FLUIDS
- ..... GOERTLER INSTABILITY
- ..... KARMAN-BODEWADT FLOW
- ..... LIQUID SLOSHING
- ..... PLANETARY WAVES
- ..... SUPERROTATION
- ..... TAYLOR INSTABILITY
- ..... TRAPPED VORTICES
- ..... TURBULENT FLOW
- ..... VORTEX SHEETS
- ..... VORTICES
- ..... WING TIP VORTICES

### ROTATING LIQUIDS

- UF LIQUID ROTATION
- GS LIQUIDS
- ..... ROTATING LIQUIDS
- ..... ROTATING FLUIDS
- ..... ROTATING LIQUIDS
- RT GOERTLER INSTABILITY
- ..... PLANETARY WAVES
- ..... ROTATION
- ..... TRAPPED VORTICES
- ..... VORTICES

### ROTATING MIRRORS

- GS MIRRORS
- ..... ROTATING MIRRORS
- RT FRAMING CAMERAS
- ..... HIGH SPEED CAMERAS

### ROTATING SHAFTS

- GS SHAFTS (MACHINE ELEMENTS)
- ..... ROTATING SHAFTS
- ..... TURBOSHAFTS

### ROTATING SPHERES

- GS ROTATING BODIES
- ..... ROTATING SPHERES

### ROTATING SPHERES-(CONT.)

- ..... SYMMETRICAL BODIES
- ..... BODIES OF REVOLUTION
- ..... SPHERES
- ..... ROTATING SPHERES
- RT EQUATORS
- ..... SPHERICAL SHELLS

### ROTATING STALLS

- RT BOUNDARY LAYER SEPARATION
- ..... COMPRESSOR BLADES
- $\infty$  ROTOR BLADES
- ..... TURBOCOMPRESSORS

### ROTATING VEHICLES

- USE ROTATING BODIES
- ..... VEHICLES

### ROTATIONAL FLOW

- USE FLUID FLOW
- ..... VORTICES

### ROTOCHUTES

- GS PARACHUTES
- ..... ROTOCHUTES
- RT AUTOROTATION

### ROTOR AERODYNAMICS

- GS FLUID MECHANICS
- ..... FLUID DYNAMICS
- ..... GAS DYNAMICS
- ..... AERODYNAMICS
- ..... ROTOR AERODYNAMICS
- RT FLAPPING
- ..... FLAPPING HINGES
- ..... GROUND RESONANCE
- ..... ROTOR BODY INTERACTIONS
- ..... ROTOR DYNAMICS
- ..... ROTORCRAFT AIRCRAFT
- ..... ROTORS
- ..... WHIRL TOWERS

### $\infty$ ROTOR BLADES

- SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)
- RT HELICOPTER TAIL ROTORS
- ..... ROTARY WINGS
- ..... ROTATING STALLS
- ..... ROTOR BLADES (TURBOMACHINERY)
- ..... ROTORCRAFT AIRCRAFT
- ..... TAIL ROTORS
- ..... X WING ROTORS

### ROTOR BODY INTERACTIONS

- RT AERODYNAMIC CHARACTERISTICS
- ..... AERODYNAMIC CONFIGURATIONS
- ..... HELICOPTER DESIGN
- ..... ROTOR AERODYNAMICS

### ROTOR DISKS

- USE TURBINE WHEELS

### ROTOR HUBS

- USE HUBS
- ..... ROTORS

### ROTOR LIFT

- GS AERODYNAMIC CHARACTERISTICS
- ..... LIFT
- ..... ROTOR LIFT
- ..... AERODYNAMIC FORCES
- ..... LIFT
- ..... ROTOR LIFT
- ..... DYNAMIC CHARACTERISTICS
- ..... LIFT
- ..... ROTOR LIFT
- RT DISTRIBUTION (PROPERTY)

### ROTOR SPEED

- GS RATES (PER TIME)
- ..... ROTOR SPEED
- ..... VELOCITY
- ..... ROTOR SPEED
- RT ANGULAR VELOCITY
- ..... HIGH SPEED
- ..... LABYRINTH SEALS
- ..... TIP SPEED

### ROTOR SYSTEMS RESEARCH AIRCRAFT

- GS RESEARCH AIRCRAFT
- ..... ROTOR SYSTEMS RESEARCH AIRCRAFT
- ..... V/STOL AIRCRAFT

**ROTOR SYSTEMS RESEARCH-(CONT.)**

- . ROTARY WING AIRCRAFT
- . Rotor Systems Research Aircraft
- RT ∞ AIRCRAFT
- AIRCRAFT DESIGN
- HELICOPTERS
- NASA PROGRAMS
- ∞ SYSTEMS

**ROTORCRAFT**

- USE ROTARY WING AIRCRAFT

**ROTORCRAFT AIRCRAFT**

- RT ∞ AIRCRAFT
- HELICOPTERS
- ROTARY WING AIRCRAFT
- ROTOR AERODYNAMICS
- ∞ ROTOR BLADES

**ROTORS**

- UF ROTOR HUBS
- GS ROTATING BODIES
- . ROTORS
- . COMPRESSOR ROTORS
- . FLYWHEELS
- . IMPELLERS
- . PUMP IMPELLERS
- . ROTARY WINGS
- . CIRCULATION CONTROL ROTORS
- . LIFTING ROTORS
- . BEARINGLESS ROTORS
- . RIGID ROTORS
- . TILTING ROTORS
- . TIP DRIVEN ROTORS
- . X WING ROTORS
- . TAIL ROTORS
- . HELICOPTER TAIL ROTORS
- . TIP VANES
- . TURBINE WHEELS
- RT AIRFOILS
- ARMATURES
- CENTRIFUGAL COMPRESSORS
- HEAVY LIFT AIRSHIPS
- ∞ ROTATING ELECTRICAL MACHINES
- ROTOR AERODYNAMICS
- ROTOR BLADES (TURBOMACHINERY)
- ROTOR DYNAMICS
- STATORS
- TURBINES
- TURBOCOMPRESSORS
- TURBOMACHINE BLADES
- TURBOSHAFTS
- WHEELS
- WINGS

**ROUGHNESS**

- GS ROUGHNESS
- . SEA ROUGHNESS
- . SURFACE ROUGHNESS
- RT COARSENESS
- CONTOURS
- FLATNESS
- MECHANICAL PROPERTIES
- MOTION STABILITY
- PROFILOMETERS
- SMOOTHING
- SURFACE PROPERTIES

**ROUTES**

- RT AIR TRAFFIC CONTROL
- FLIGHT PLANS
- ∞ PATHS
- SITE SELECTION
- TRANSPORTATION

**RPV**

- USE REMOTELY PILOTED VEHICLES

**RUBIS ROCKET VEHICLE**

- GS ROCKET VEHICLES
- . MULTISTAGE ROCKET VEHICLES
- . RUBIS ROCKET VEHICLE
- RT SOLID PROPELLANT ROCKET ENGINES

**RUDDERS**

- GS CONTROL SURFACES
- . RUDDERS
- . AERIAL RUDDERS
- . MARINE RUDDERS
- RT AIRFOILS
- FINS
- PINTLES
- STABILIZERS (FLUID DYNAMICS)
- SWEEPBACK TAIL SURFACES

**RUDDERS-(CONT.)**

- TABS (CONTROL SURFACES)
- TAIL ASSEMBLIES
- TAIL SURFACES
- TRAPEZOIDAL TAIL SURFACES

**RUNGE-KUTTA METHOD**

- GS ANALYSIS (MATHEMATICS)
- . NUMERICAL ANALYSIS
- . NUMERICAL INTEGRATION
- . RUNGE-KUTTA METHOD
- . REAL VARIABLES
- . MEASURE AND INTEGRATION
- . NUMERICAL INTEGRATION
- . RUNGE-KUTTA METHOD
- RT ∞ METHODOLOGY

**RUNWAY ALIGNMENT**

- SN (ALIGNMENT WITH RUNWAYS--NOT
- ALIGNMENT OF RUNWAYS)
- RT AIRCRAFT LANDING
- TAKEOFF RUNS

**RUNWAY CONDITIONS**

- GS CONDITIONS
- . RUNWAY CONDITIONS
- RT AVIATION METEOROLOGY
- ICE
- RUNWAYS
- SLUSH
- SURFACE ROUGHNESS
- WATER
- WEATHER

**RUNWAY LIGHTS**

- GS LANDING AIDS
- . AIRPORT LIGHTS
- . RUNWAY LIGHTS
- LIGHTING EQUIPMENT
- . LUMINAIRES
- . AIRPORT LIGHTS
- . RUNWAY LIGHTS
- RT APPROACH CONTROL
- ∞ FLARES
- ∞ MARKERS
- RUNWAYS
- SEARCHLIGHTS
- VISUAL CONTROL

**RUNWAYS**

- RT AIRFIELD SURFACE MOVEMENTS
- AIRPORTS
- LANDING
- LANDING AIDS
- LANDING MATS
- LANDING SITES
- PAVEMENTS
- RUNWAY CONDITIONS
- RUNWAY LIGHTS
- ∞ STRIP
- TAKEOFF
- TAXIING

**RYAN AIRCRAFT**

- UF RYAN MILITARY AIRCRAFT
- GS RYAN AIRCRAFT
- . FIREBEE 2 TARGET DRONE AIRCRAFT
- . X-13 AIRCRAFT
- . XC-142 AIRCRAFT
- . XV-5 AIRCRAFT
- . XV-8A AIRCRAFT
- RT ∞ AIRCRAFT

**RYAN MILITARY AIRCRAFT**

- USE RYAN AIRCRAFT

**R5D AIRCRAFT**

- USE C-54 AIRCRAFT

**R7V AIRCRAFT**

- USE C-121 AIRCRAFT
- EC-121 AIRCRAFT

**S**

**S WAVES**

- UF SECONDARY WAVES
- SHEAR DISTURBANCES
- SHEAR WAVES
- GS ELASTIC WAVES
- . S WAVES

**S WAVES-(CONT.)**

- . SH WAVES
- RT CRUSTAL FRACTURES
- DILATATIONAL WAVES
- P WAVES
- POLARIZED ELASTIC WAVES
- RAYLEIGH WAVES
- SEISMIC WAVES
- SURFACE WAVES
- TRANSVERSE WAVES

**S-2 AIRCRAFT**

- UF SNOW AERIAL APPLICATOR AIRCRAFT
- S-2B
- SNOW S-2 AIRCRAFT
- US-2A AIRCRAFT
- GS MONOPLANES
- . S-2 AIRCRAFT
- SNOW AIRCRAFT
- . S-2 AIRCRAFT
- UTILITY AIRCRAFT
- . S-2 AIRCRAFT
- RT ∞ AIRCRAFT

**S-3 AIRCRAFT**

- GS ANTISUBMARINE WARFARE AIRCRAFT
- . S-3 AIRCRAFT
- RT ∞ AIRCRAFT
- ∞ MILITARY AIRCRAFT

**S-61 HELICOPTER**

- UF SIKORSKY S-61 HELICOPTER
- GS SIKORSKY AIRCRAFT
- . S-61 HELICOPTER
- TRANSPORT AIRCRAFT
- . S-61 HELICOPTER
- V/STOL AIRCRAFT
- . ROTARY WING AIRCRAFT
- . HELICOPTERS
- . MILITARY HELICOPTERS
- . S-61 HELICOPTER
- RT ∞ AIRCRAFT
- ANTISUBMARINE WARFARE AIRCRAFT
- CH-3 HELICOPTER
- SH-3 HELICOPTER
- SH-4 HELICOPTER
- WATER TAKEOFF AND LANDING AIRCRAFT

**S-64 HELICOPTER**

- USE CH-54 HELICOPTER

**S-67 HELICOPTER**

- UF SIKORSKY S-67 HELICOPTER
- GS SIKORSKY AIRCRAFT
- . S-67 HELICOPTER
- RT ∞ AIRCRAFT

**SA-321 HELICOPTER**

- UF SUD AVIATION SA-321 HELICOPTER
- GS SUD AVIATION AIRCRAFT
- . SA-321 HELICOPTER
- V/STOL AIRCRAFT
- . ROTARY WING AIRCRAFT
- . HELICOPTERS
- . MILITARY HELICOPTERS
- . SA-321 HELICOPTER
- RT ∞ AIRCRAFT

**SA-330 HELICOPTER**

- UF SUD AVIATION SA-330 HELICOPTER
- GS SUD AVIATION AIRCRAFT
- . ALOUETTE HELICOPTERS
- . SA-330 HELICOPTER
- TRANSPORT AIRCRAFT
- . SA-330 HELICOPTER
- V/STOL AIRCRAFT
- . ROTARY WING AIRCRAFT
- . HELICOPTERS
- . ALOUETTE HELICOPTERS
- . SA-330 HELICOPTER
- . MILITARY HELICOPTERS
- . SA-330 HELICOPTER
- RT ∞ AIRCRAFT

**SAAB AIRCRAFT**

- GS SAAB AIRCRAFT
- . SAAB 37 AIRCRAFT
- . SAAB 105 AIRCRAFT
- RT ∞ AIRCRAFT

**SAAB 37 AIRCRAFT**

- GS ATTACK AIRCRAFT
- . FIGHTER AIRCRAFT

## SABRE AIRCRAFT

### SAAB 37 AIRCRAFT-(CONT.)

.. SAAB 37 AIRCRAFT  
JET AIRCRAFT  
.. TURBOFAN AIRCRAFT  
.. SAAB 37 AIRCRAFT  
SAAB AIRCRAFT  
.. SAAB 37 AIRCRAFT  
SUPERSONIC AIRCRAFT  
.. SAAB 37 AIRCRAFT  
RT ∞ AIRCRAFT  
CANARD CONFIGURATIONS  
HARRIER AIRCRAFT

### SABRE AIRCRAFT

USE F-86 AIRCRAFT

### SABRELINER AIRCRAFT

USE T-39 AIRCRAFT

### SAFEGUARD SYSTEM

GS WEAPON SYSTEMS  
.. MISSILE SYSTEMS  
.. SAFEGUARD SYSTEM  
PT ANTIMISSILE DEFENSE  
BALLISTIC MISSILES  
MILITARY TECHNOLOGY  
MISSILE DEFENSE  
SENTINEL SYSTEM  
∞ SYSTEMS

### SAFETY DEVICES

GS SAFETY DEVICES  
.. ABORT APPARATUS  
.. AIR BAG RESTRAINT DEVICES  
.. ARRESTING GEAR  
.. EJECTION SEATS  
.. FLYING EJECTION SEATS  
.. ESCAPE CAPSULES  
.. ESCAPE ROCKETS  
.. HELMETS  
.. SEAT BELTS  
RT ACCIDENT PREVENTION  
ACCIDENT PRONESS  
ACCIDENTS  
AIRCRAFT SAFETY  
AMBULANCES  
ANTISKID DEVICES  
AUTOMOBILE ACCIDENTS  
∞ BARRIERS  
∞ CHEMICAL DEFENSE  
DEFLECTORS  
∞ DEVICES  
EMERGENCY LIFE SUSTAINING  
SYSTEMS  
ENCLOSURES  
∞ EQUIPMENT  
FAIL-SAFE SYSTEMS  
FIRE PREVENTION  
FLAME DEFLECTORS  
FLIGHT SAFETY  
GATES (OPENINGS)  
GUARDS (SHIELDS)  
HARNESSES  
HAZARDS  
HUMAN FACTORS ENGINEERING  
LANDING AIDS  
PRESSURE SUITS  
PROTECTION  
PROTECTIVE CLOTHING  
PROTECTORS  
RADIATION MEASURING INSTRUMENTS  
RADIATION SHIELDING  
SHIELDING  
SMOKE DETECTORS  
SPACE SUITS  
SPACECRAFT SHIELDING  
WARNING  
WARNING SYSTEMS

### SAGNAC EFFECT

GS PHASE SHIFT  
.. SAGNAC EFFECT  
RT ANGULAR VELOCITY  
ETALONS  
FIBER OPTICS  
INTERFEROMETERS  
INTERFEROMETRY  
LASER GYROSCOPES  
LASER INTERFEROMETRY  
LIGHT TRANSMISSION  
NONLINEAR OPTICS  
OPTICAL GYROSCOPES  
OPTICAL PATHS  
SPECKLE INTERFEROMETRY  
WAVE PROPAGATION

### SAILPLANES

USE GLIDERS

### SAILS

GS SAILS  
.. SAILWINGS  
.. SOLAR SAILS  
RT FINS  
GLIDERS  
TAIL ASSEMBLIES

### SAILWINGS

UF PRINCETON SAILWINGS  
GS FOLDING STRUCTURES  
.. SAILWINGS  
SAILS  
.. SAILWINGS  
RT GLIDERS  
HANG GLIDERS  
KA-6 SAILPLANES

### SALT SPRAY TESTS

GS CHEMICAL TESTS  
.. SALT SPRAY TESTS  
ENVIRONMENTAL TESTS  
.. CORROSION TESTS  
.. SALT SPRAY TESTS  
RT CORROSION  
CORROSION RESISTANCE  
SPRAY INGESTION  
STRESS CORROSION  
∞ TESTS

### SAMARITAN AIRCRAFT

USE C-131 AIRCRAFT

### SANDPIPER TARGET MISSILE

GS MISSILE CONFIGURATIONS  
.. SANDPIPER TARGET MISSILE  
MISSILES  
.. SANDPIPER TARGET MISSILE  
RT DRONE VEHICLES  
TARGETS

### SATELLITE ALTIMETRY

GS ALTIMETRY  
.. SATELLITE ALTIMETRY  
RT ALTIMETERS  
GEODESY  
GEODETIC SATELLITES  
GEOIDS  
GEOS 3 SATELLITE  
GEOSAT SATELLITES  
RADAR MEASUREMENT  
SATELLITE OBSERVATION  
SATELLITE-BORNE RADAR  
SEASAT SATELLITES  
TOPOGRAPHY

### SATELLITE ATTITUDE DISTURBANCE

USE ATTITUDE STABILITY  
SPACECRAFT STABILITY

### SATELLITE BREAKUP

USE SPACECRAFT BREAKUP

### SATELLITE DRAG

GS DYNAMIC CHARACTERISTICS  
.. DRAG  
.. SATELLITE DRAG  
RT AERODYNAMIC DRAG  
ELECTROSTATIC DRAG  
FRICTION DRAG

### SATELLITE FRAGMENTATION

USE SPACECRAFT BREAKUP

### SATELLITE LAUNCHING

USE SPACECRAFT LAUNCHING

### SATELLITE NAVIGATION SYSTEMS

GS SATELLITE NAVIGATION SYSTEMS  
.. TRANSIT NAVIGATION SYSTEM  
RT AUTONOMOUS NAVIGATION  
GLOBAL POSITIONING SYSTEM  
NAVIGATION SATELLITES  
RADAR NAVIGATION  
RADIO NAVIGATION  
SPACE NAVIGATION  
∞ SYSTEMS

### SATURN D LAUNCH VEHICLE

GS LAUNCH VEHICLES  
.. SATURN LAUNCH VEHICLES

### SATURN D LAUNCH VEHICLE-(CONT.)

.. SATURN D LAUNCH VEHICLE  
ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. SATURN LAUNCH VEHICLES  
.. SATURN D LAUNCH VEHICLE  
RT RL-10-A-3 ENGINE

### SATURN LAUNCH VEHICLES

GS LAUNCH VEHICLES  
.. SATURN LAUNCH VEHICLES  
.. SATURN D LAUNCH VEHICLE  
.. SATURN 1 LAUNCH VEHICLES  
.. SATURN 1 SA-1 LAUNCH VEHICLE  
.. SATURN 1 SA-2 LAUNCH VEHICLE  
.. SATURN 1 SA-3 LAUNCH VEHICLE  
.. SATURN 1 SA-4 LAUNCH VEHICLE  
.. SATURN 1 SA-5 LAUNCH VEHICLE  
.. SATURN 1 SA-6 LAUNCH VEHICLE  
.. SATURN 1 SA-7 LAUNCH VEHICLE  
.. SATURN 1 SA-8 LAUNCH VEHICLE  
.. SATURN 1 SA-9 LAUNCH VEHICLE  
.. SATURN 1 SA-10 LAUNCH VEHICLE  
.. SATURN 1B LAUNCH VEHICLES  
.. SATURN 2 LAUNCH VEHICLES  
.. SATURN 5 LAUNCH VEHICLES  
ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. SATURN LAUNCH VEHICLES  
.. SATURN D LAUNCH VEHICLE  
.. SATURN 1 LAUNCH VEHICLES  
.. SATURN 1 SA-1 LAUNCH VEHICLE  
.. SATURN 1 SA-2 LAUNCH VEHICLE  
.. SATURN 1 SA-3 LAUNCH VEHICLE  
.. SATURN 1 SA-4 LAUNCH VEHICLE  
.. SATURN 1 SA-5 LAUNCH VEHICLE  
.. SATURN 1 SA-6 LAUNCH VEHICLE  
.. SATURN 1 SA-7 LAUNCH VEHICLE  
.. SATURN 1 SA-8 LAUNCH VEHICLE  
.. SATURN 1 SA-9 LAUNCH VEHICLE  
.. SATURN 1 SA-10 LAUNCH  
VEHICLE  
.. SATURN 1B LAUNCH VEHICLES  
.. SATURN 2 LAUNCH VEHICLES  
.. SATURN 5 LAUNCH VEHICLES  
RT APOLLO PROJECT  
F-1 ROCKET ENGINE  
RL-10 ENGINES  
∞ VEHICLES

### SATURN PROJECT

GS PROGRAMS  
.. NASA PROGRAMS  
.. NASA SPACE PROGRAMS  
.. SATURN PROJECT  
PROJECTS  
.. SATURN PROJECT  
SPACE PROGRAMS  
.. NASA SPACE PROGRAMS  
.. SATURN PROJECT  
RT APOLLO APPLICATIONS PROGRAM  
APOLLO SPACECRAFT  
CENTAUR LAUNCH VEHICLE  
LAUNCH VEHICLES  
LUNAR LAUNCH  
PEGASUS SATELLITES  
RIFF (REACTOR IN FLIGHT TEST)  
VOYAGER PROJECT

### SATURN S-1 STAGE

GS ROCKET VEHICLES  
.. SATURN STAGES  
.. SATURN S-1 STAGE  
RT LIQUID PROPELLANT ROCKET ENGINES

### SATURN S-1B STAGE

GS ROCKET VEHICLES  
.. SATURN STAGES  
.. SATURN S-1B STAGE  
RT LIQUID PROPELLANT ROCKET ENGINES

### SATURN S-1C STAGE

GS ROCKET VEHICLES  
.. SATURN STAGES  
.. SATURN S-1C STAGE  
RT LIQUID PROPELLANT ROCKET ENGINES

### SATURN S-2 STAGE

GS ROCKET VEHICLES  
.. SATURN STAGES  
.. SATURN S-2 STAGE  
RT LIQUID PROPELLANT ROCKET ENGINES

### SATURN S-4 STAGE

GS ROCKET VEHICLES

**SATURN S-4 STAGE-(CONT.)**

GS SATURN STAGES  
 . SATURN S-4 STAGE  
 RT LIQUID PROPELLANT ROCKET ENGINES

**SATURN S-4B STAGE**

GS ROCKET VEHICLES  
 . SATURN STAGES  
 . SATURN S-4B STAGE  
 RT LIQUID PROPELLANT ROCKET ENGINES

**SATURN STAGES**

GS ROCKET VEHICLES  
 . SATURN STAGES  
 . SATURN S-1 STAGE  
 . SATURN S-1B STAGE  
 . SATURN S-1C STAGE  
 . SATURN S-2 STAGE  
 . SATURN S-4 STAGE  
 . SATURN S-4B STAGE  
 RT LIQUID PROPELLANT ROCKET ENGINES

**SATURN 1 LAUNCH VEHICLES**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-1 LAUNCH VEHICLE  
 . SATURN 1 SA-2 LAUNCH VEHICLE  
 . SATURN 1 SA-3 LAUNCH VEHICLE  
 . SATURN 1 SA-4 LAUNCH VEHICLE  
 . SATURN 1 SA-5 LAUNCH VEHICLE  
 . SATURN 1 SA-6 LAUNCH VEHICLE  
 . SATURN 1 SA-7 LAUNCH VEHICLE  
 . SATURN 1 SA-8 LAUNCH VEHICLE  
 . SATURN 1 SA-9 LAUNCH VEHICLE  
 . SATURN 1 SA-10 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-1 LAUNCH VEHICLE  
 . SATURN 1 SA-2 LAUNCH VEHICLE  
 . SATURN 1 SA-3 LAUNCH VEHICLE  
 . SATURN 1 SA-4 LAUNCH VEHICLE  
 . SATURN 1 SA-5 LAUNCH VEHICLE  
 . SATURN 1 SA-6 LAUNCH VEHICLE  
 . SATURN 1 SA-7 LAUNCH VEHICLE  
 . SATURN 1 SA-8 LAUNCH VEHICLE  
 . SATURN 1 SA-9 LAUNCH VEHICLE  
 . SATURN 1 SA-10 LAUNCH VEHICLE  
 RT H-1 ENGINE  
 M-1 ENGINE

**SATURN 1 SA-1 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-1 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-1 LAUNCH VEHICLE

**SATURN 1 SA-2 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-2 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-2 LAUNCH VEHICLE

**SATURN 1 SA-3 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-3 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-3 LAUNCH VEHICLE

**SATURN 1 SA-4 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-4 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES

**SATURN 1 SA-4 LAUNCH VEHICLE-(CONT.)**

... SATURN 1 LAUNCH VEHICLES  
 ... SATURN 1 SA-4 LAUNCH VEHICLE

**SATURN 1 SA-5 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-5 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-5 LAUNCH VEHICLE

**SATURN 1 SA-6 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-6 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-6 LAUNCH VEHICLE

**SATURN 1 SA-7 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-7 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-7 LAUNCH VEHICLE

**SATURN 1 SA-8 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-8 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-8 LAUNCH VEHICLE

**SATURN 1 SA-9 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-9 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1 LAUNCH VEHICLES  
 . SATURN 1 SA-9 LAUNCH VEHICLE

**SATURN 1B LAUNCH VEHICLES**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1B LAUNCH VEHICLES  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 1B LAUNCH VEHICLES  
 RT H-1 ENGINE  
 J-2 ENGINE  
 M-1 ENGINE  
 SKYLAB 2  
 SKYLAB 3  
 SKYLAB 4

**SATURN 2 LAUNCH VEHICLES**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 2 LAUNCH VEHICLES  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 2 LAUNCH VEHICLES

**SATURN 5 LAUNCH VEHICLES**

GS LAUNCH VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 5 LAUNCH VEHICLES  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . SATURN LAUNCH VEHICLES  
 . SATURN 5 LAUNCH VEHICLES  
 RT J-2 ENGINE  
 SKYLAB 2  
 SKYLAB 3  
 SKYLAB 4

**SAVAGE AIRCRAFT**

USE A-2 AIRCRAFT

**SAWTOOTH WAVEFORMS**

GS WAVEFORMS  
 . SAWTOOTH WAVEFORMS  
 RT PULSE AMPLITUDE  
 PULSE DURATION  
 SQUARE WAVES

**SC-1 AIRCRAFT**

UF SHORT SC-1 AIRCRAFT  
 GS JET AIRCRAFT  
 . SC-1 AIRCRAFT  
 MONOPLANES  
 . SC-1 AIRCRAFT  
 RESEARCH AIRCRAFT  
 . SC-1 AIRCRAFT  
 TAILLESS AIRCRAFT  
 . SC-1 AIRCRAFT  
 V/STOL AIRCRAFT  
 . VERTICAL TAKEOFF AIRCRAFT  
 . SC-1 AIRCRAFT  
 RT ∞ AIRCRAFT

**SC-5 AIRCRAFT**

UF BELFAST AIRCRAFT  
 SHORT BELFAST C MK-1 AIRCRAFT  
 SHORT SC-5 AIRCRAFT  
 GS JET AIRCRAFT  
 . TURBOPROP AIRCRAFT  
 . SC-5 AIRCRAFT  
 MONOPLANES  
 . SC-5 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . SC-5 AIRCRAFT  
 RT ∞ AIRCRAFT

**SC-7 AIRCRAFT**

UF SHORT SC-7 AIRCRAFT  
 SKYVAN AIRCRAFT  
 TURBO-SKYVAN AIRCRAFT  
 GS LIGHT AIRCRAFT  
 . SC-7 AIRCRAFT  
 MONOPLANES  
 . SC-7 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . SC-7 AIRCRAFT  
 RT ∞ AIRCRAFT  
 CARGO AIRCRAFT  
 PASSENGER AIRCRAFT

**∞ SCALE**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT SCALE (CORROSION)  
 SCALE (RATIO)  
 TEMPERATURE SCALES  
 WEIGHT INDICATORS

**SCALE EFFECT**

RT ∞ EFFECTS  
 FORCE DISTRIBUTION  
 PARAMETERIZATION  
 REYNOLDS NUMBER  
 ∞ SCALING

**SCALE MODELS**

GS MODELS  
 . SCALE MODELS  
 RT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT MODELS  
 REYNOLDS EQUATION  
 SCALING LAWS  
 SEMISPAN MODELS  
 SIMILARITY THEOREM  
 SIMILITUDE LAW  
 SPACECRAFT MODELS  
 WIND TUNNEL MODELS

**∞ SCALING**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT CALIBRATING  
 ERRORS  
 SCALE (CORROSION)  
 SCALE EFFECT  
 SCALING LAWS

**SCAR PROGRAM**

USE SUPERSONIC CRUISE AIRCRAFT  
 RESEARCH

## SCAT

**SCAT**  
USE SUPERSONIC COMMERCIAL AIR TRANSPORT

**SCATTERING COEFFICIENTS**  
GS COEFFICIENTS  
  . SCATTERING COEFFICIENTS  
RT ABSORPTIVITY  
  ATTENUATION COEFFICIENTS  
  FORM FACTORS

**SCATTERING FUNCTIONS**  
RT FLUX DENSITY  
  FUNCTIONS  
  RADIANT FLUX DENSITY

**SCHLEICHER AIRCRAFT**  
RT AIRCRAFT  
  GLIDERS

**SCHLEICHER KA-8 SAILPLANE**  
USE KA-8 SAILPLANES

**SCHLIEREN PHOTOGRAPHY**  
GS IMAGERY  
  SHADOWGRAPH PHOTOGRAPHY  
  . SCHLIEREN PHOTOGRAPHY  
  PHOTOGRAPHY  
  SHADOWGRAPH PHOTOGRAPHY  
  . SCHLIEREN PHOTOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
  DIFFERENTIAL INTERFEROMETRY  
  FLOW VISUALIZATION  
  MACH-ZEHNDER INTERFEROMETERS  
  MOIRE EFFECTS

**SCHULER TUNING**  
GS TUNING  
  . SCHULER TUNING  
RT GYROSCOPIC PENDULUMS  
  GYROSCOPIC STABILITY  
  INERTIAL NAVIGATION

**SCHWARTZ METHOD**  
GS ANALYSIS (MATHEMATICS)  
  NUMERICAL ANALYSIS  
  . APPROXIMATION  
  . SCHWARTZ METHOD  
  STRESS ANALYSIS  
  . SCHWARTZ METHOD  
RT METHODODOLOGY

**SCIMITAR AIRCRAFT**  
UF VICKERS SCIMITAR AIRCRAFT  
GS ATTACK AIRCRAFT  
  FIGHTER AIRCRAFT  
  . SCIMITAR AIRCRAFT  
  BAC AIRCRAFT  
  . SCIMITAR AIRCRAFT  
  JET AIRCRAFT  
  . SCIMITAR AIRCRAFT  
  MONOPLANES  
  . SCIMITAR AIRCRAFT  
RT AIRCRAFT

**SCOOPS**  
RT AIR INTAKES  
  CONVEYORS  
  DUCTS  
  INTAKE SYSTEMS  
  NOSE INLETS  
  SIDE INLETS  
  WATER INTAKES

**SCORE OMNIRANGE**  
USE SELF CALIBRATING OMNIRANGE

**SCOUT HELICOPTER**  
USE P-531 HELICOPTER

**SCOUT LAUNCH VEHICLE**  
GS LAUNCH VEHICLES  
  . SCOUT LAUNCH VEHICLE  
  ROCKET VEHICLES  
  MULTISTAGE ROCKET VEHICLES  
  . SCOUT LAUNCH VEHICLE  
RT ALGOL ENGINE  
  EXPLORER 9 SATELLITE  
  EXPLORER 16 SATELLITE  
  EXPLORER 19 SATELLITE  
  EXPLORER 20 SATELLITE  
  EXPLORER 22 SATELLITE  
  EXPLORER 23 SATELLITE  
  EXPLORER 24 SATELLITE

**SCOUT LAUNCH VEHICLE-(CONT.)**  
EXPLORER 25 SATELLITE  
EXPLORER 27 SATELLITE  
EXPLORER 30 SATELLITE  
EXPLORER 37 SATELLITE  
EXPLORER 39 SATELLITE  
EXPLORER 40 SATELLITE  
SAN MARCO SATELLITES  
SOLID PROPELLANT ROCKET ENGINES  
TX-354 ENGINE  
X-248 ENGINE  
X-254 ENGINE  
X-258 ENGINES  
X-259 ENGINE  
XM-33 ENGINE

**SCOUT PROJECT**  
GS PROGRAMS  
  . NASA PROGRAMS  
  . NASA SPACE PROGRAMS  
  . SCOUT PROJECT  
  PROJECTS  
  . SCOUT PROJECT  
  SPACE PROGRAMS  
  . NASA SPACE PROGRAMS  
  . SCOUT PROJECT  
RT BOOSTERS  
  EXPLORER SATELLITES  
  LAUNCH VEHICLES

**SCRAMJET ENGINES**  
USE SUPERSONIC COMBUSTION RAMJET ENGINES

**SCRAMJETS**  
USE SUPERSONIC COMBUSTION RAMJET ENGINES

**SDP (COMPUTERS)**  
USE SITE DATA PROCESSORS

**SDV**  
USE SHUTTLE DERIVED VEHICLES

**SE-210 AIRCRAFT**  
UF CARAVELLE AIRCRAFT  
  SUD AVIATION SE-210 AIRCRAFT  
GS COMMERCIAL AIRCRAFT  
  . SE-210 AIRCRAFT  
  JET AIRCRAFT  
  TURBOFAN AIRCRAFT  
  . SE-210 AIRCRAFT  
  MONOPLANES  
  . SE-210 AIRCRAFT  
  PASSENGER AIRCRAFT  
  . SE-210 AIRCRAFT  
  SUD AVIATION AIRCRAFT  
  . SE-210 AIRCRAFT  
RT AIRCRAFT

**SE-3160 HELICOPTER**  
UF ALOUETTE 3 HELICOPTER  
  SUD AVIATION SE-3160 HELICOPTER  
GS SUD AVIATION AIRCRAFT  
  ALOUETTE HELICOPTERS  
  . SE-3160 HELICOPTER  
  V/STOL AIRCRAFT  
  ROTARY WING AIRCRAFT  
  . HELICOPTERS  
  . ALOUETTE HELICOPTERS  
  . SE-3160 HELICOPTER

**SEA KEEPING**  
RT ATTITUDE GYROS  
  DAMPING  
  GYROSCOPIC STABILITY  
  GYROSTABILIZERS  
  MOTION STABILITY  
  STABILIZERS  
  TORQUERS

**SEA KING HELICOPTER**  
USE SH-3 HELICOPTER

**SEA KNIGHT HELICOPTER**  
USE CH-46 HELICOPTER

**SEAHORSE HELICOPTER**  
USE UH-34 HELICOPTER

**SEAPLANES**  
GS WATER TAKEOFF AND LANDING  
  AIRCRAFT  
  . SEAPLANES

**SEAPLANES-(CONT.)**  
RT AMPHIBIOUS AIRCRAFT  
  AMPHIBIOUS VEHICLES  
  HULLS (STRUCTURES)  
  MONOPLANES

**SEARCHLIGHTS**  
GS LIGHTING EQUIPMENT  
  LUMINAIRES  
  . SEARCHLIGHTS  
RT AIRPORT LIGHTS  
  ARC LAMPS  
  BEACONS  
  PROJECTORS  
  RUNWAY LIGHTS

**SEASPRITE HELICOPTER**  
USE UH-2 HELICOPTER

**SEAT BELTS**  
GS SAFETY DEVICES  
  . SEAT BELTS  
RT BELTS  
  HARNESSES  
  SEATS

**SEATS**  
UF BENCHES  
  CHAIRS  
GS SEATS  
  . BARANY CHAIR  
  . EJECTION SEATS  
  . FLYING EJECTION SEATS  
RT COMFORT  
  COUCHES  
  CUSHIONS  
  HARNESSES  
  LOUNGES  
  PILLOWS  
  RIDING QUALITY  
  SEAT BELTS  
  SITTING POSITION

**SECONDARY FLOW**  
GS FLUID FLOW  
  . VISCOUS FLOW  
  . BOUNDARY LAYER FLOW  
  . SECONDARY FLOW  
  TRANSLATIONAL MOTION  
  THREE DIMENSIONAL MOTION  
  THREE DIMENSIONAL FLOW  
  . SECONDARY FLOW  
RT COMPRESSIBILITY EFFECTS  
  CORNER FLOW  
  THREE DIMENSIONAL BOUNDARY LAYER  
  VORTICES  
  VORTICITY

**SECONDARY INJECTION**  
GS INJECTION  
  . SECONDARY INJECTION  
RT FLUID INJECTION  
  SHOCK WAVE CONTROL  
  SHOCK WAVE PROPAGATION  
  SUPERSONIC FLOW  
  THRUST AUGMENTATION  
  THRUST VECTOR CONTROL

**SECONDARY WAVES**  
USE S WAVES

**SECTIONS**  
SN (USE OF A MORE SPECIFIC TERM IS  
  RECOMMENDED--CONSULT THE TERMS  
  LISTED BELOW)  
RT CATEGORIES  
  CLASSES  
  SUBDIVISIONS  
  SUBSIDIARIES

**SEEKERS**  
USE HOMING DEVICES

**SEGREGATION**  
USE SEPARATION

**SELF ADAPTIVE CONTROL SYSTEMS**  
GS AUTOMATIC CONTROL  
  ADAPTIVE CONTROL  
  . SELF ADAPTIVE CONTROL SYSTEMS  
RT ACTIVE CONTROL  
  ADAPTIVE OPTICS  
  AUTOMATA THEORY  
  AUTONOMY



**SELF ADAPTIVE CONTROL SYSTEMS-(CONT.)**

- ∞ CONTROL
- ∞ SYSTEMS
- SELF ALIGNMENT**
  - GS ALIGNMENT
    - . SELF ALIGNMENT
    - . AUTOMATIC CONTROL
  - RT SELF ALIGNMENT
    - . ACTIVE CONTROL
    - . ADAPTIVE CONTROL
    - . LANDING GEAR
    - . MODEL REFERENCE ADAPTIVE CONTROL
    - . SERVOMECHANISMS
- SELF CALIBRATING OMNIRANGE**
  - UF SCORE OMNIRANGE
  - GS NAVIGATION AIDS
    - . BEACONS
    - . RADIO BEACONS
    - . . . OMNIDIRECTIONAL RADIO RANGES
    - . . . SELF CALIBRATING OMNIRANGE
  - RADIO EQUIPMENT
    - . RADIO TRANSMITTERS
    - . RADIO BEACONS
    - . . . OMNIDIRECTIONAL RADIO RANGES
    - . . . SELF CALIBRATING OMNIRANGE
  - TRANSMITTERS
    - . RADIO TRANSMITTERS
    - . RADIO BEACONS
    - . . . OMNIDIRECTIONAL RADIO RANGES
    - . . . SELF CALIBRATING OMNIRANGE
  - RT SOLAR COMPASSES

**SELF DEPLOYING SPACE STATIONS**

- USE SELF ERECTING DEVICES
- SPACE STATIONS

**SELF ERECTING DEVICES**

- UF SELF DEPLOYING SPACE STATIONS
- RT ∞ AUTOMATION
- ∞ DEVICES
- ∞ EQUIPMENT
- INFLATABLE SPACECRAFT
- INFLATABLE STRUCTURES
- ORBITAL ASSEMBLY
- SPACE ERECTABLE STRUCTURES

**SELF INITIATED ANTI-AIRCRAFT MISSILES**

- USE SIAM MISSILES

**SELF REGULATING**

- USE AUTOMATIC CONTROL

**SELF SEALING**

- GS SEALING
  - . SELF SEALING
- RT FLIGHT SAFETY
  - . FUEL SYSTEMS
  - . RUPTURING
  - . SUPPORT SYSTEMS

**SELF TESTS**

- RT AUTOMATIC TEST EQUIPMENT
  - . AVIONICS
  - . CHECKOUT
  - . ELECTRONIC EQUIPMENT TESTS
  - . FAIL-SAFE SYSTEMS
- ∞ TESTS

**SEMISPAN MODELS**

- GS MODELS
  - . SEMISPAN MODELS
- RT AERODYNAMIC CONFIGURATIONS
  - . AIRCRAFT MODELS
  - . SCALE MODELS
  - . WIND TUNNEL MODELS

**SENECA AIRCRAFT**

- USE PA-34 SENECA AIRCRAFT

**SENSIBILITY**

- USE SENSITIVITY

**SENSITIVITY**

- UF INSENSITIVITY
- SENSIBILITY
- GS SENSITIVITY
  - . ANAPHYLAXIS
  - . IMPACT RESISTANCE
  - . NOTCH SENSITIVITY
  - . PAIN SENSITIVITY
  - . PHOTOSENSITIVITY

**SENSITIVITY-(CONT.)**

- . . . LIGHT ADAPTATION
- . . . PHOTOTROPISM
- . . . PROPELLANT SENSITIVITY
- . . . RADIATION TOLERANCE
- . . . SENSITOMETRY
- . . . SPECTRAL SENSITIVITY
- RT ACUITY
  - . ADAPTATION
  - . AMPLIFICATION
  - . AUDITORY PERCEPTION
  - . DYNAMIC CHARACTERISTICS
  - . DYNAMIC RESPONSE
  - ∞ FREQUENCY RESPONSE
  - . ITCHING
  - . PERCEPTION
  - . PRECISION
  - . RANGE (EXTREMES)
  - . REACTION TIME
  - ∞ RESISTANCE
  - . RESOLUTION
  - . SENSITIZING
  - . SHOCK RESISTANCE
  - ∞ THRESHOLDS
  - . THRESHOLDS (PERCEPTION)
  - . TOLERANCES (MECHANICS)
  - . TRANSFER FUNCTIONS
  - . TRANSIENT RESPONSE
  - . VISIBILITY
  - . VULNERABILITY

**SEPARATED FLOW**

- UF FLOW SEPARATION
- GS FLUID FLOW
  - . VISCOUS FLOW
  - . . . BOUNDARY LAYER FLOW
  - . . . SEPARATED FLOW
  - . . . . . BOUNDARY LAYER SEPARATION
- RT CAVITATION FLOW
  - . CONICAL FLOW
  - . CROCCO-LEE THEORY
  - . FLOW CHARACTERISTICS
  - . FLOW DISTRIBUTION
  - . REATTACHED FLOW
  - . REVERSED FLOW
  - ∞ SEPARATION
    - . SURFACE ROUGHNESS EFFECTS
    - . TURBULENCE EFFECTS
    - . VORTEX FLAPS

**∞ SEPARATION**

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*

- UF SEGREGATION
- RT ADSORPTION
  - . AERATION
  - . AGGLOMERATION
  - . AGITATION
  - . BENEFICIATION
  - . BOUNDARY LAYER SEPARATION
  - . BREAKING
  - . CENTRIFUGING
  - . CHEMICAL FRACTIONATION
  - . CHIPPING
  - . CLASSIFIERS
  - . CLEANING
  - . COAGULATION
  - . COALESCING
  - . COANDA EFFECT
  - . COLLOIDS
  - . CONCENTRATING
  - . CONDENSING
  - . CRYSTALLIZATION
  - . CUTTING
  - . DECONTAMINATION
  - . DEGASSING
  - . DEHUMIDIFICATION
  - . DEHYDRATION
  - . DEIONIZATION
  - . DELAMINATING
  - . DEMINERALIZING
  - . DEOXYGENATION
  - . DEPOSITION
  - . DESCALING
  - . DESORPTION
  - . DIALYSIS
  - . DIFFUSION
  - . DISPERSING
  - . DISSOLVING
  - . DISTILLATION
  - . DIVERTERS
  - ∞ DIVISION
  - . DRYING
  - . ELECTRODIALYSIS

**SEPARATION-(CONT.)**

- ELECTROSTATIC PRECIPITATORS
- ELIMINATION
- ELUTION
- EVAPORATION
- EXCHANGING
- EXCLUSION
- EXTERNAL STORE SEPARATION
- EXTRACTION
- FILTRATION
- FLAKING
- FLASHING (VAPORIZING)
- FLOTATION
- FLUSHING
- FOAMING
- FRACTIONATION
- FRACTURING
- HOMOGENIZING
- ION EXCHANGING
- ION EXTRACTION
- ION STRIPPING
- ISOLATION
- LEACHING
- MATERIALS RECOVERY
- MELTING
- MIXING
- OSMOSIS
- PERCOLATION
- PHASE SEPARATION (MATERIALS)
- POLARIZATION (CHARGE SEPARATION)
- PRECIPITATION (CHEMISTRY)
- PURGING
- PURIFICATION
- RADIOCHEMICAL SEPARATION
- RECRYSTALLIZATION
- REFINING
- REMOVAL
- SCRAPERS
- SEPARATED FLOW
- SEPARATORS
- SETTLING
- SHAKING
- SHEARING
- SIZE SEPARATION
- SLICING
- SOLVENT EXTRACTION
- SORPTION
- SPACING
- SPLITTING
- SPREADING
- STAGE SEPARATION
- STRIPPING (DISTILLATION)
- SUBLIMATION
- SWIRLING
- THERMAL DIFFUSION
- THERMOPHORESIS
- TUMBLING MOTION
- VAPORIZING
- VENTING
- WASHING
- ZONE MELTING

**SERGEANT MISSILES**

- GS MISSILES
  - . SURFACE TO SURFACE MISSILES
- RT SERGEANT MISSILES
  - . JUNO 1 LAUNCH VEHICLE
  - . JUNO 2 LAUNCH VEHICLE
  - . JUPITER C ROCKET VEHICLE
  - . LITTLE JOE 2 LAUNCH VEHICLE
  - . SOLID PROPELLANT ROCKET ENGINES

**SERT (ROCKET TESTS)**

- USE SPACE ELECTRIC ROCKET TESTS

**SERT 1 SPACECRAFT**

- RT ELECTRIC PROPULSION
  - . ELECTRIC ROCKET ENGINES
  - . ENGINE TESTS
  - . SPACE ELECTRIC ROCKET TESTS
- ∞ SPACECRAFT

**SERT 2 SPACECRAFT**

- RT ELECTRIC PROPULSION
  - . ELECTRIC ROCKET ENGINES
  - . ENGINE TESTS
  - . SPACE ELECTRIC ROCKET TESTS
- ∞ SPACECRAFT

**SERVICE MODULES**

- GS MODULES
  - . SERVICE MODULES
  - . SPACECRAFT COMPONENTS
- RT SERVICE MODULES
  - . APOLLO SPACECRAFT

## SERVOAMPLIFIERS

### SERVICE MODULES-(CONT.)

COMMAND MODULES  
SPACECRAFT DOCKING MODULES  
SPACECRAFT MODULES

### SERVOAMPLIFIERS

GS AMPLIFIERS  
    . SERVOAMPLIFIERS  
    CONTROL EQUIPMENT  
    . SERVOAMPLIFIERS  
    CONTROLLERS  
    . SERVOMECHANISMS  
    . SERVOAMPLIFIERS  
RT FEEDBACK AMPLIFIERS  
FLY BY TUBE CONTROL  
SERVOCONTROL

### SERVOCONTROL

UF SERVOSTABILITY CONTROL  
RT AIRCRAFT HYDRAULIC SYSTEMS  
AUTOMATIC CONTROL  
    . CONTROL  
    CONTROL MOMENT GYROSCOPES  
    CONTROL THEORY  
    DIGITAL COMMAND SYSTEMS  
    FEEDBACK CONTROL  
    HYDRAULIC EQUIPMENT  
    MANIPULATORS  
    MANUAL CONTROL  
    OFF-ON CONTROL  
    PNEUMATIC EQUIPMENT  
    PROPORTIONAL CONTROL  
    REMOTE CONTROL  
    ROCKET ENGINE CONTROL  
    SERVOAMPLIFIERS  
    SERVOMECHANISMS  
    SERVOMOTORS  
    STEPPING MOTORS  
    TURBOJET ENGINE CONTROL  
    VISUAL CONTROL

### SERVOMECHANISMS

GS CONTROLLERS  
    . SERVOMECHANISMS  
    . SERVOAMPLIFIERS  
    . SERVOMOTORS  
RT ACTIVE CONTROL  
ACTUATORS  
AIRCRAFT HYDRAULIC SYSTEMS  
AUTOMATIC CONTROL  
AUTOMATIC CONTROL VALVES  
    . AUTOMATION  
    . CONTROL  
    CONTROL MOMENT GYROSCOPES  
    ELECTRIC MOTORS  
    FEEDBACK CONTROL  
    HYDRAULIC EQUIPMENT  
    PNEUMATIC EQUIPMENT  
    RADAR EQUIPMENT  
    REMOTE CONTROL  
    ROBOTS  
    SELF ALIGNMENT  
    SERVOCONTROL  
    STEPPING MOTORS

### SERVOSTABILITY CONTROL

USE SERVOCONTROL

### SES

USE SURFACE EFFECT SHIPS

### SETTLING

RT ACCUMULATIONS  
AGGLOMERATION  
AGITATION  
BENEFICIATION  
COAGULATION  
COALESCING  
CONCENTRATING  
CRYSTALLIZATION  
DEPOSITION  
EFFLUENTS  
FLOCCULATING  
FLOTATION  
PARTICLE MOTION  
PRECIPITATION (CHEMISTRY)  
    . PROCESSING  
    . SEPARATION  
    SIZE SEPARATION  
    STOKES LAW (FLUID MECHANICS)  
    SUBSIDENCE  
    WATER TREATMENT

### SEXTANTS

GS MEASURING INSTRUMENTS

### SEXTANTS-(CONT.)

. OPTICAL MEASURING INSTRUMENTS  
    . . SEXTANTS  
    OPTICAL EQUIPMENT  
    . OPTICAL MEASURING INSTRUMENTS  
    . . SEXTANTS  
RT NAVIGATION AIDS  
POSITION INDICATORS  
STADIMETERS  
THEODOLITES  
TRANSITS

### SH WAVES

UF HORIZONTAL POLARIZED SHEAR WAVES  
HORIZONTALLY POLARIZED SHEAR WAVES  
GS ELASTIC WAVES  
    . S WAVES  
    . . SH WAVES  
RT NONDESTRUCTIVE TESTS  
SEISMIC WAVES  
TRANSVERSE WAVES  
ULTRASONIC TESTS  
    . WAVES

### SH-3 HELICOPTER

UF HSS-2 HELICOPTER  
SEA KING HELICOPTER  
SIKORSKY HSS-2 HELICOPTER  
GS ANTISUBMARINE WARFARE AIRCRAFT  
    . SH-3 HELICOPTER  
    SIKORSKY AIRCRAFT  
    . SH-3 HELICOPTER  
    TRANSPORT AIRCRAFT  
    . SH-3 HELICOPTER  
    V/STOL AIRCRAFT  
    . ROTARY WING AIRCRAFT  
    . . HELICOPTERS  
    . . . MILITARY HELICOPTERS  
    . . . . SH-3 HELICOPTER  
RT S-61 HELICOPTER  
SH-4 HELICOPTER

### SH-4 HELICOPTER

GS ANTISUBMARINE WARFARE AIRCRAFT  
    . SH-4 HELICOPTER  
    SIKORSKY AIRCRAFT  
    . SH-4 HELICOPTER  
    TRANSPORT AIRCRAFT  
    . SH-4 HELICOPTER  
    V/STOL AIRCRAFT  
    . ROTARY WING AIRCRAFT  
    . . HELICOPTERS  
    . . . MILITARY HELICOPTERS  
    . . . . SH-4 HELICOPTER  
RT S-61 HELICOPTER  
SH-3 HELICOPTER

### SHACKLETON BOMBER

GS ATTACK AIRCRAFT  
BOMBER AIRCRAFT  
    . SHACKLETON BOMBER  
HAWKER SIDDELEY AIRCRAFT  
    . SHACKLETON BOMBER  
MONOPLANES  
    . SHACKLETON BOMBER

### SHADOWGRAPH PHOTOGRAPHY

UF SHADOWGRAPHS  
SPARK SHADOWGRAPH PHOTOGRAPHY  
GS IMAGERY  
    . SHADOWGRAPH PHOTOGRAPHY  
    . . SCHLIEREN PHOTOGRAPHY  
    PHOTOGRAPHY  
    . SHADOWGRAPH PHOTOGRAPHY  
    . . SCHLIEREN PHOTOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
COLOR PHOTOGRAPHY  
FLOW VISUALIZATION  
WIND TUNNEL MODELS

### SHADOWGRAPHS

USE SHADOWGRAPH PHOTOGRAPHY

### SHAFTS (MACHINE ELEMENTS)

UF AXLES  
JOURNALS (SHAFTS)  
TRUNNIONS  
GS . SHAFTS (MACHINE ELEMENTS)  
    . ROTATING SHAFTS  
    . . TURBOSHAFTS  
RT AXES OF ROTATION  
BEARINGS  
BUSHINGS  
    . JOURNALS

### SHAFTS (MACHINE ELEMENTS)-(CONT.)

. . . LOADING  
LOADS (FORCES)  
MANDRELS  
MECHANICAL DRIVES  
PACKINGS (SEALS)  
PINTLES  
PIVOTS  
ROTATING CYLINDERS  
SPINDLES  
SUPPORTS  
TORQUE  
TRANSMISSIONS (MACHINE ELEMENTS)  
VEHICLE WHEELS  
WHEELS

### SHALLOW SHELL EQUATIONS

RT END PLATES  
    . EQUATIONS  
    PRESSURE VESSELS  
STRESS ANALYSIS

### SHALLOW SHELLS

GS SHELLS (STRUCTURAL FORMS)  
    . SHALLOW SHELLS  
RT CRITICAL LOADING  
SHELL STABILITY  
SHELL THEORY

### SHALLOW WATER

GS WATER  
RT . SHALLOW WATER  
CNOIDAL WAVES  
FISHERIES  
OCEANOGRAPHY  
OCEANS  
REEFS  
SEAS  
SHORELINES  
TOPOGRAPHY  
WATER DEPTH

### SHAPE CONTROL

RT ACTUATORS  
COLUMBUS SPACE STATION  
    . CONTROL  
    CONTROL THEORY  
    FLEXIBLE SPACECRAFT  
    LARGE SPACE STRUCTURES  
    SPACE PLATFORMS  
    SPACECRAFT CONTROL

### SHARP LEADING EDGES

GS EDGES  
    . LEADING EDGES  
    . . SHARP LEADING EDGES  
RT AIRFOILS  
FOREBODIES  
TRAILING EDGES

### SHAWNEE HELICOPTER

USE CH-21 HELICOPTER

### . . SHEAR

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT DILATATIONAL WAVES  
SHEARING  
SHEARS

### SHEAR DISTURBANCES

USE S WAVES

### SHEAR FATIGUE

USE SHEAR STRESS

### SHEAR FLOW

GS FLUID FLOW  
    . SHEAR FLOW  
RT COAXIAL FLOW  
CORE FLOW  
CREEP PROPERTIES  
    . FLOW  
    GRAZING FLOW  
    KOLMOGOROFF THEORY  
    KROOK EQUATION  
    MIXING LENGTH FLOW THEORY  
    PLASTIC FLOW  
    RICHARDSON NUMBER  
    STRATIFIED FLOW

### SHEAR LAYERS

UF CHAPMAN SHEAR LAYER

**SHEAR LAYERS-(CONT.)**

RT BOUNDARY LAYERS  
EARTH IONOSPHERE  
∞ LAYERS  
MIXING LAYERS (FLUIDS)  
RIBBLES  
SHOCK LAYERS  
SHOCK WAVE CONTROL  
∞ TRANSITION LAYERS

**SHEAR PROPERTIES**

GS MECHANICAL PROPERTIES  
. SHEAR PROPERTIES  
. . . SHEAR STRENGTH  
RT CREEP PROPERTIES  
DUCTILITY  
FATIGUE (MATERIALS)  
HOOKES LAW  
HYSTERESIS  
IMPACT STRENGTH  
MODULUS OF ELASTICITY  
∞ PROPERTIES  
RESILIENCE  
SET  
STRESS RELAXATION  
STRESS-STRAIN DIAGRAMS  
STRESSES  
TEMPERATURE INVERSIONS  
TOUGHNESS

**SHEAR STRAIN**

RT MECHANICAL PROPERTIES  
STRUCTURAL STRAIN  
TORSIONAL VIBRATION

**SHEAR STRENGTH**

GS MECHANICAL PROPERTIES  
. SHEAR PROPERTIES  
. . . SHEAR STRENGTH  
RT COMPRESSIVE STRENGTH  
FIBER STRENGTH  
HIGH STRENGTH  
INTERFACIAL ENERGY  
∞ STRENGTH  
TENSILE STRENGTH

**SHEAR STRESS**

UF SHEAR FATIGUE  
SHEARING STRESS  
GS STRESSES  
. SHEAR STRESS  
. . . TORSIONAL STRESS  
RT MECHANICAL PROPERTIES

**SHEAR WAVES**

USE S WAVES

**SHEARING STRESS**

USE SHEAR STRESS

**SHELL STABILITY**

GS MECHANICAL PROPERTIES  
. DIMENSIONAL STABILITY  
. . . STRUCTURAL STABILITY  
. . . SHELL STABILITY  
STABILITY  
. . . STATIC STABILITY  
. . . DIMENSIONAL STABILITY  
. . . STRUCTURAL STABILITY  
. . . SHELL STABILITY  
RT BUCKLING  
FLUID FILLED SHELLS  
LIQUID FILLED SHELLS  
ORTHOTROPIC SHELLS  
PLASTIC SHELLS  
REINFORCED SHELLS  
SHALLOW SHELLS

**SHIELDING**

GS SHIELDING  
. ELECTROMAGNETIC SHIELDING  
. . . RADIO FREQUENCY SHIELDING  
. . . ELECTROSTATIC SHIELDING  
. . . HEAT SHIELDING  
. . . REENTRY SHIELDING  
. . . REUSABLE HEAT SHIELDING  
. . . MAGNETIC SHIELDING  
. . . RADIATION SHIELDING  
. . . SOLAR RADIATION SHIELDING  
. . . SPACECRAFT SHIELDING  
RT ABLATIVE NOSE CONES  
ABSORBERS (MATERIALS)  
ARMOR  
ATTENUATION  
ATTENUATORS

**SHIELDING-(CONT.)**

BAFFLES  
∞ BARRIERS  
BLAST DEFLECTORS  
BLINDS  
DEFLECTORS  
DIVERTERS  
ENCLOSURES  
FLAME DEFLECTORS  
GUARDS (SHIELDS)  
HOUSINGS  
LININGS  
LOUVERS  
MANIPULATORS  
PANELS  
PROTECTION  
PROTECTORS  
SAFETY DEVICES  
∞ SCREENS  
SHADES  
SUPPRESSORS  
WINDOWS (APERTURES)  
WINDSHIELDS

**SHIFTING EQUILIBRIUM FLOW**

GS FLUID FLOW  
. GAS FLOW  
. . . EQUILIBRIUM FLOW  
. . . SHIFTING EQUILIBRIUM FLOW  
RT FROZEN EQUILIBRIUM FLOW

**SHILLELAGH MISSILES**

GS MISSILES  
. SURFACE TO SURFACE MISSILES  
. . . ANTITANK MISSILES  
. . . SHILLELAGH MISSILES

**SHIP HULLS**

GS HULLS (STRUCTURES)  
. SHIP HULLS  
RT HYDRODYNAMIC COEFFICIENTS  
HYDRODYNAMICS  
SHIPS  
STRUCTURAL DESIGN  
SUBMARINES

**SHIPS**

GS WATER VEHICLES  
. SHIPS  
. . . ADVANCED RANGE  
. . . INSTRUMENTATION SHIP  
. . . AIRCRAFT CARRIERS  
. . . CARGO SHIPS  
. . . SAVANNAH NUCLEAR SHIP  
. . . TANKER SHIPS  
. . . NUCLEAR POWERED SHIPS  
. . . SAVANNAH NUCLEAR SHIP  
. . . SATELLITE COMMUNICATIONS SHIPS  
. . . SUBMARINES  
. . . BALLISTIC MISSILE SUBMARINES  
. . . GUIDED MISSILE SUBMARINES  
. . . TRIDENT SUBMARINE  
. . . SURFACE EFFECT SHIPS  
. . . SWATH (SHIP)  
RT AMPHIBIOUS VEHICLES  
ANTISHIP MISSILES  
ANTISHIP WARFARE  
BOATS  
HARBORS  
HYDROFOIL CRAFT  
HYDROFOILS  
KEELS  
MARINE TRANSPORTATION  
∞ MILITARY VEHICLES  
NAVY  
OCEAN DATA ACQUISITIONS SYSTEMS  
PROPELLERS  
RESEARCH VEHICLES  
SHIP HULLS  
SHIP TO SHORE COMMUNICATION  
SHIPYARDS  
SURFACE NAVIGATION  
SURFACE VEHICLES  
∞ TRANSPORT VEHICLES  
TRANSPORTATION ENERGY  
UNDERWATER VEHICLES  
∞ VESSELS

**∞ SHOCK**

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT CONVULSIONS  
MECHANICAL SHOCK  
SHOCK (PHYSIOLOGY)

**SHOCK-(CONT.)**

SHOCK RESISTANCE  
THERMAL SHOCK

**SHOCK ABSORBERS**

RT ∞ ABSORBERS  
ABSORBERS (EQUIPMENT)  
CUSHIONS  
DAMPING  
ENERGY ABSORPTION  
HYDRAULIC EQUIPMENT  
IMPACT  
IMPACT ACCELERATION  
ISOLATORS  
LANDING GEAR  
MECHANICAL SHOCK  
PNEUMATIC EQUIPMENT  
SILENCERS  
SPRINGS (ELASTIC)  
SUSPENSION SYSTEMS (VEHICLES)  
VIBRATION DAMPING  
VIBRATION ISOLATORS

**SHOCK DIFFUSERS**

USE DIFFUSERS  
SHOCK WAVE ATTENUATION

**SHOCK DISCONTINUITY**

GS DISCONTINUITY  
. SHOCK DISCONTINUITY  
RT DENSITY DISTRIBUTION  
WAVE FRONTS

**SHOCK FRONTS**

GS WAVE FRONTS  
. SHOCK FRONTS  
RT ∞ FRONTS  
MAGNETOSHEATH  
WAVE PROPAGATION  
WAVE SCATTERING

**SHOCK HEATING**

GS HEATING  
. KINETIC HEATING  
. . . AERODYNAMIC HEATING  
. . . SHOCK HEATING  
. . . TRANSIENT HEATING  
. . . SHOCK HEATING  
RT MAGNETOHYDRODYNAMIC SHEAR  
HEATING  
PLASMA HEATING

**SHOCK LAYERS**

RT ∞ LAYERS  
NORMAL SHOCK WAVES  
OBLIQUE SHOCK WAVES  
SHEAR LAYERS  
STRESS WAVES  
∞ TRANSITION LAYERS

**SHOCK LOADS**

GS LOADS (FORCES)  
. DYNAMIC LOADS  
. . . TRANSIENT LOADS  
. . . SHOCK LOADS  
. . . BLAST LOADS  
RT AERODYNAMIC LOADS  
AXIAL COMPRESSION LOADS  
COMPRESSION LOADS  
CONTACT LOADS  
CRUSTAL FRACTURES  
IMPACT LOADS  
LANDING LOADS  
SHATTER CONES  
STRUCTURAL DESIGN CRITERIA

**SHOCK MEASURING INSTRUMENTS**

GS MEASURING INSTRUMENTS  
. SHOCK MEASURING INSTRUMENTS  
RT ACCELEROMETERS  
PRESSURE GAGES  
SEISMOGRAPHS  
STRAIN GAGES

**SHOCK SIMULATORS**

GS SIMULATORS  
. SHOCK SIMULATORS  
RT VERTICAL MOTION SIMULATORS  
VIBRATION SIMULATORS

**SHOCK SPECTRA**

GS SPECTRA  
. SHOCK SPECTRA  
RT DYNAMIC STRUCTURAL ANALYSIS

## SHOCK TESTS

### SHOCK SPECTRA-(CONT.)

ENERGY SPECTRA  
MECHANICAL SHOCK  
NOISE SPECTRA  
STROKING TESTS  
STRUCTURAL DESIGN  
STRUCTURAL VIBRATION

### SHOCK TESTS

RT DROP TESTS  
IMPACT TESTS  
LOAD TESTS  
RAILROAD HUMMING TESTS  
∞ TESTS  
VIBRATION TESTS

### SHOCK TUBES

GS SHOCK WAVE GENERATORS  
SHOCK TUBES  
MAGNETIC ANNULAR SHOCK TUBES  
SHOCK TUNNELS  
RT GAS TEMPERATURE  
HOTSHOT WIND TUNNELS  
HYPERSONIC FLOW  
HYPERSONIC WIND TUNNELS  
HYPERVELOCITY WIND TUNNELS  
LOW DENSITY RESEARCH  
LOW DENSITY WIND TUNNELS  
MAGNETIC PISTONS  
TEST FACILITIES  
TUBE LASERS  
∞ TUBES

### SHOCK TUNNELS

GS SHOCK WAVE GENERATORS  
SHOCK TUBES  
SHOCK TUNNELS  
TEST FACILITIES  
WIND TUNNELS  
HYPERSONIC WIND TUNNELS  
SHOCK TUNNELS  
HYPERVELOCITY WIND TUNNELS  
SHOCK TUNNELS  
RT CASCADE WIND TUNNELS  
HOTSHOT WIND TUNNELS  
HYPERSONIC FLOW  
LOW DENSITY RESEARCH  
LOW DENSITY WIND TUNNELS  
SUPERSONIC WIND TUNNELS

### SHOCK WAVE ATTENUATION

UF SHOCK DIFFUSERS  
GS ATTENUATION  
WAVE ATTENUATION  
ACOUSTIC ATTENUATION  
SHOCK WAVE ATTENUATION  
RT ATMOSPHERIC ATTENUATION  
NOISE REDUCTION  
WAVE PROPAGATION

### SHOCK WAVE CONTROL

RT ∞ CONTROL  
SECONDARY INJECTION  
SHEAR LAYERS

### SHOCK WAVE GENERATORS

GS SHOCK WAVE GENERATORS  
SHOCK TUBES  
MAGNETIC ANNULAR SHOCK TUBES  
SHOCK TUNNELS  
RT ∞ GENERATORS  
MAGNETIC PISTONS  
PRESSURE SENSORS  
PULSE GENERATORS  
WAVE GENERATION

### SHOCK WAVE INTERACTION

GS WAVE INTERACTION  
SHOCK WAVE INTERACTION  
RT ∞ INTERACTIONS  
PROPAGATION MODES  
SCATTERING  
WAVE DEGRADATION

### SHOCK WAVE LUMINESCENCE

GS EMISSION  
LIGHT EMISSION  
LUMINESCENCE  
SHOCK WAVE LUMINESCENCE  
RT LOW DENSITY RESEARCH  
WAVE INTERACTION

### SHOCK WAVE PROFILES

RT KROOK EQUATION

### SHOCK WAVE PROFILES-(CONT.)

PRESSURE DISTRIBUTION  
∞ PROFILES  
VELOCITY DISTRIBUTION  
WAVE INTERACTION

### SHOCK WAVE PROPAGATION

GS TRANSMISSION  
WAVE PROPAGATION  
SHOCK WAVE PROPAGATION  
RT ATMOSPHERIC ATTENUATION  
BURGER EQUATION  
CROCCO METHOD  
HIGH TEMPERATURE GASES  
NONEQUILIBRIUM RADIATION  
RANKINE-HUGONIOT RELATION  
SECONDARY INJECTION  
SOUND PROPAGATION  
TWO FLUID MODELS  
WAVE ATTENUATION  
WAVE INTERACTION

### SHOCK WAVES

UF BOW SHOCK WAVES  
GS ELASTIC WAVES  
SHOCK WAVES  
DETONATION WAVES  
MACH CONES  
NORMAL SHOCK WAVES  
OBLIQUE SHOCK WAVES  
RIEMANN WAVES  
SONIC BOOMS  
RT ADIABATIC EQUATIONS  
AERODYNAMIC NOISE  
BLAST LOADS  
∞ BLASTS  
BOW WAVES  
CAUSTIC LINES  
CRUSTAL FRACTURES  
DETONATION  
EARTHQUAKE DAMAGE  
EARTHQUAKE RESISTANCE  
EARTHQUAKE RESISTANT STRUCTURES  
EARTHQUAKES  
ELECTROSTATIC WAVES  
EXPLODING WIRES  
EXPLOSIONS  
GAS TEMPERATURE  
GEODYNAMICS  
HUGONIOT EQUATION OF STATE  
HYPERSONIC FLOW  
HYPERSONIC SHOCK  
HYPERSONIC WAKES  
IMPACT  
IMPLOSIONS  
LONGITUDINAL WAVES  
MACH NUMBER  
MACH REFLECTION  
MAGNETOHYDRODYNAMIC WAVES  
MECHANICAL SHOCK  
MOLECULAR RELAXATION  
NOISE (SOUND)  
NOVAE  
PLANE WAVES  
PLANETARY QUAKES  
PLASMA WAVES  
PLUMES  
PRESSURE PULSES  
SEISMIC WAVES  
SOUND PRESSURE  
SOUND WAVES  
STRESS WAVES  
SUPERSONIC FLOW  
∞ TRANSITION LAYERS  
TRANSONIC FLOW  
TSUNAMI WAVES  
UNDERWATER ACOUSTICS  
UNDERWATER COMMUNICATION  
∞ WAVES  
WEDGE FLOW  
WHITHAM RULE

### SHOOTING STAR AIRCRAFT

USE T-33 AIRCRAFT

### SHORAN

UF SHORT RANGE NAVIGATION  
GS NAVIGATION  
RADIO NAVIGATION  
HYPERBOLIC NAVIGATION  
SHORAN  
RT AIR NAVIGATION  
DECCA NAVIGATION  
DISTANCE MEASURING EQUIPMENT  
NAVIGATION AIDS

### SHORAN-(CONT.)

SOLAR COMPASSES

### SHORT BELFAST C MK-1 AIRCRAFT

USE SC-5 AIRCRAFT

### SHORT HAUL AIRCRAFT

GS TRANSPORT AIRCRAFT  
SHORT HAUL AIRCRAFT  
C-8A AUGMENTOR WING AIRCRAFT  
CESSNA 402B AIRCRAFT  
EUROPEAN AIRBUS  
A-300 AIRCRAFT  
A-310 AIRCRAFT  
A-320 AIRCRAFT  
RT MERCURE AIRCRAFT  
AIR TRANSPORTATION  
∞ AIRCRAFT  
AIRCRAFT DESIGN  
AIRLINE OPERATIONS  
PASSENGER AIRCRAFT  
V/STOL AIRCRAFT

### SHORT RANGE BALLISTIC MISSILES

GS MISSILES  
BALLISTIC MISSILES  
SHORT RANGE BALLISTIC MISSILES  
SURFACE TO SURFACE MISSILES  
SHORT RANGE BALLISTIC MISSILES  
RT FIELD ARMY BALLISTIC MISSILES  
INTERMEDIATE RANGE BALLISTIC MISSILES

### SHORT RANGE NAVIGATION

USE SHORAN

### SHORT SC-1 AIRCRAFT

USE SC-1 AIRCRAFT

### SHORT SC-5 AIRCRAFT

USE SC-5 AIRCRAFT

### SHORT SC-7 AIRCRAFT

USE SC-7 AIRCRAFT

### SHORT TAKEOFF AIRCRAFT

UF STOL AIRCRAFT  
GS V/STOL AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
ALADIN 2 AIRCRAFT  
BREGUET 940 AIRCRAFT  
BREGUET 941 AIRCRAFT  
C-8A AUGMENTOR WING AIRCRAFT  
C-15 AIRCRAFT  
C-123 AIRCRAFT  
DHC 4 AIRCRAFT  
DHC 5 AIRCRAFT  
QUESTOL AIRCRAFT  
U-10 AIRCRAFT  
RT ∞ AIRCRAFT  
CIRCULATION CONTROL AIRFOILS  
COMPOUND HELICOPTERS  
EXTERNALLY BLOWN FLAPS  
FAN IN WING AIRCRAFT  
HELICOPTERS  
JATO ENGINES  
JET AIRCRAFT  
JET FLAPS  
LIFT FANS  
LIFTING ROTORS  
∞ MILITARY AIRCRAFT  
POWERED LIFT AIRCRAFT  
ROTARY WING AIRCRAFT  
SIEBEL AIRCRAFT  
∞ SUBSONIC AIRCRAFT  
TAKEOFF RUNS  
TILT WING AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
∞ WINGED VEHICLES

### ∞ SHOT

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)  
RT AMMUNITION  
LAUNCHING  
ORBITAL SHOTS  
PELLETS  
SHOT NOISE  
SHOT PEENING

### SHRIKE MISSILE

GS MISSILES  
AIR TO SURFACE MISSILES

## SINGLE EVENT UPSETS

### SHRIKE MISSILE-(CONT.)

RT SHRIKE MISSILE  
SOLID PROPELLANT ROCKET ENGINES

### SHROUDED NOZZLES

RT ANNULAR NOZZLES  
NOZZLE GEOMETRY  
NOZZLE WALLS  
∞ NOZZLES

### SHROUDED PROPELLERS

UF DUCTED PROPELLERS  
GS PROPELLERS  
SHROUDED PROPELLERS  
RT DUCTED FANS  
RING WINGS  
THRUST AUGMENTATION  
XV-11A AIRCRAFT

### SHROUDED TURBINES

GS TURBOMACHINERY  
TURBINES  
SHROUDED TURBINES

### SHUNTS

USE BYPASSES  
CIRCUITS

### SHUTDOWNS

RT DEACTIVATION  
ENGINES  
∞ SCRAM

### SHUTTLE BOOSTERS

USE SPACE SHUTTLE BOOSTERS

### SHUTTLE DERIVED VEHICLES

UF SDV  
RT ADVANCED LAUNCH SYSTEM (STS)  
MANNED SPACECRAFT  
SPACE SHUTTLE ORBITERS  
SPACE SHUTTLES  
∞ SPACECRAFT  
SPACECRAFT DESIGN

### SHUTTLE ORBITERS

USE SPACE SHUTTLE ORBITERS

### SIAM MISSILES

UF SELF INITIATED ANTIAIRCRAFT MISSILES  
GS MISSILES  
ANTIAIRCRAFT MISSILES  
SIAM MISSILES  
RT AIR TO AIR MISSILES  
ANTIMISSILE MISSILES

### SIDE INLETS

GS INTAKE SYSTEMS  
SIDE INLETS  
RT AIR INTAKES  
BYPASS RATIO  
HYPERSONIC INLETS  
INLET AIRFRAME CONFIGURATIONS  
NOSE INLETS  
SCOOPS  
SUPERSONIC INLETS  
∞ WATER INTAKES

### SIDE-LOOKING RADAR

GS RADAR  
SYNTHETIC APERTURE RADAR  
SIDE-LOOKING RADAR  
RT CHANGE DETECTION  
IMAGING RADAR  
RADAR IMAGERY  
RADAR SCANNING  
SEARCH RADAR

### SIDESLIP

GS MANEUVERS  
SIDESLIP  
RT ROLL  
SKIDDING  
∞ SLIP  
SPACECRAFT MOTION  
YAW

### SIDEWASH

USE BACKWASH

### SIDEWINDER MISSILES

GS MISSILES  
AIR TO AIR MISSILES  
SIDEWINDER MISSILES

### SIDEWINDER MISSILES-(CONT.)

ANTIAIRCRAFT MISSILES  
SIDEWINDER MISSILES

### SIEBEL AIRCRAFT

RT ∞ AIRCRAFT  
SHORT TAKEOFF AIRCRAFT

### SIGNAL STABILIZATION

GS STABILIZATION  
SIGNAL STABILIZATION  
RT FREQUENCY CONTROL  
TRANSMISSION CIRCUITS

### SIKORSKY AIRCRAFT

GS SIKORSKY AIRCRAFT  
CH-3 HELICOPTER  
CH-34 HELICOPTER  
CH-54 HELICOPTER  
H-19 HELICOPTER  
H-53 HELICOPTER  
H-56 HELICOPTER  
H-60 HELICOPTER  
S-58 HELICOPTER  
S-61 HELICOPTER  
S-67 HELICOPTER  
SH-3 HELICOPTER  
SH-4 HELICOPTER  
SIKORSKY WHIRLWIND HELICOPTER  
UH-34 HELICOPTER  
UH-60A HELICOPTER  
UH-61A HELICOPTER  
RT ∞ AIRCRAFT

### SIKORSKY HSS-2 HELICOPTER

USE SH-3 HELICOPTER

### SIKORSKY S-58 HELICOPTER

USE S-58 HELICOPTER

### SIKORSKY S-61 HELICOPTER

USE S-61 HELICOPTER

### SIKORSKY S-64 HELICOPTER

USE CH-54 HELICOPTER

### SIKORSKY S-65 HELICOPTER

USE H-53 HELICOPTER

### SIKORSKY S-67 HELICOPTER

USE S-67 HELICOPTER

### SIKORSKY WHIRLWIND HELICOPTER

GS SIKORSKY AIRCRAFT  
SIKORSKY WHIRLWIND HELICOPTER  
V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
MILITARY HELICOPTERS  
SIKORSKY WHIRLWIND  
HELICOPTER  
RT ∞ AIRCRAFT

### SIMULATED ALTITUDE

USE ALTITUDE SIMULATION

### SIMULATION

GS SIMULATION  
COMPUTER SYSTEMS SIMULATION  
COMPUTERIZED SIMULATION  
ANALOG SIMULATION  
DIGITAL SIMULATION  
CONTROL SIMULATION  
ENVIRONMENT SIMULATION  
ACOUSTIC SIMULATION  
ALTITUDE SIMULATION  
SPACE ENVIRONMENT SIMULATION  
WEIGHTLESSNESS SIMULATION  
NEUTRAL BUOYANCY SIMULATION  
THERMAL SIMULATION  
EXHAUST FLOW SIMULATION  
ATMOSPHERIC ENTRY SIMULATION  
FLIGHT SIMULATION  
LANDING SIMULATION  
MOTION SIMULATION  
RHEOELECTRICAL SIMULATION  
SOLAR SIMULATION  
SYSTEMS SIMULATION  
RT ANALOGIES  
BIONICS  
BOND GRAPHS  
DATA PROCESSING EQUIPMENT  
DATA SIMULATION  
DECEPTION

### SIMULATION-(CONT.)

GAME THEORY  
HEURISTIC METHODS  
HYPERVELOCITY PROJECTILES  
MATHEMATICAL MODELS  
MONTE CARLO METHOD  
OPERATIONS RESEARCH  
SIMULATORS  
SPACECRAFT CABIN SIMULATORS  
SYSTEMS ANALYSIS  
VALIDITY  
WAR GAMES

### SIMULATORS

GS SIMULATORS  
CONTROL SIMULATION  
ENVIRONMENT SIMULATORS  
LUNAR GRAVITY SIMULATOR  
SOLAR SIMULATORS  
SPACE SIMULATORS  
HIGH VACUUM ORBITAL SIMULATOR  
LANGLEY COMPLEX COORDINATOR  
LUNAR ORBIT AND LANDING  
SIMULATORS  
MOTION SIMULATORS  
SHOCK SIMULATORS  
SHUTTLE ENGINEERING SIMULATOR  
SHUTTLE MISSION SIMULATOR  
TARGET SIMULATORS  
TRAINING SIMULATORS  
FLIGHT SIMULATORS  
COCKPIT SIMULATORS  
SPACECRAFT CABIN SIMULATORS  
VIBRATION SIMULATORS  
VERTICAL MOTION SIMULATORS  
RT ANALOGS  
COMPUTER SYSTEMS SIMULATION  
DUMMIES  
MISSILE SIMULATORS  
MODELS  
SIMULATION  
TEST EQUIPMENT  
TEST FACILITIES  
TRAINING DEVICES

### SINGLE ENGINE AIRCRAFT

GS SINGLE ENGINE AIRCRAFT  
CESSNA 172 AIRCRAFT  
CESSNA 205 AIRCRAFT  
CESSNA 210 AIRCRAFT  
F-8 AIRCRAFT  
F-9 AIRCRAFT  
F-16 AIRCRAFT  
F-84 AIRCRAFT  
F-86 AIRCRAFT  
F-94 AIRCRAFT  
F-100 AIRCRAFT  
F-101 AIRCRAFT  
F-102 AIRCRAFT  
F-104 AIRCRAFT  
F-105 AIRCRAFT  
F-106 AIRCRAFT  
JAGUAR AIRCRAFT  
JET PROVOST AIRCRAFT  
L-29 JET TRAINER  
MIG AIRCRAFT  
MIRAGE AIRCRAFT  
MIRAGE 3 AIRCRAFT  
P-51 AIRCRAFT  
P-1127 AIRCRAFT  
P-1154 AIRCRAFT  
T-2 AIRCRAFT  
T-28 AIRCRAFT  
T-33 AIRCRAFT  
VAMPIRE MK 35 AIRCRAFT  
VJ-101 AIRCRAFT  
YF-16 AIRCRAFT  
RT ∞ AIRCRAFT  
FIGHTER AIRCRAFT  
GENERAL AVIATION AIRCRAFT

### SINGLE EVENT UPSETS

GS RADIATION EFFECTS  
SINGLE EVENT UPSETS  
RT ASTRONICS  
AVIONICS  
CHARGED PARTICLES  
COSMIC RAYS  
ELECTRON-HOLE DROPS  
INNER RADIATION BELT  
IONIZATION  
MICROELECTRONICS  
RADIATION DAMAGE  
RADIATION DOSAGE  
SATELLITE-BORNE INSTRUMENTS

## SINGLE STAGE ROCKET VEHICLES

### SINGLE EVENT UPSETS-(CONT.)

SECONDARY COSMIC RAYS  
SPACECRAFT CHARGING  
SPACECRAFT ELECTRONIC EQUIPMENT

### SINGLE STAGE ROCKET VEHICLES

GS ROCKET VEHICLES  
  **SINGLE STAGE ROCKET VEHICLES**  
    ... AGENA ROCKET VEHICLES  
      ... AGENA A ROCKET VEHICLE  
      ... AGENA B ROCKET VEHICLE  
      ... AGENA C ROCKET VEHICLE  
      ... AGENA D ROCKET VEHICLE  
    ... ARCAS ROCKET VEHICLES  
    ... BLACK BRANT SOUNDING ROCKETS  
      ... BLACK BRANT 1 SOUNDING  
        ROCKET  
      ... BLACK BRANT 2 SOUNDING  
        ROCKET  
      ... BLACK BRANT 3 SOUNDING  
        ROCKET  
      ... BLACK BRANT 4 SOUNDING  
        ROCKET  
      ... BLACK BRANT 5 SOUNDING  
        ROCKET  
    ... BLACK KNIGHT ROCKET VEHICLE  
    ... DORNIER PARAGLIDER ROCKET  
      VEHICLE  
    ... GENIE ROCKET VEHICLE  
    ... HONEST JOHN ROCKET VEHICLE  
    ... HYLSTAR ROCKET VEHICLE  
    ... LITTLE JOHN ROCKET VEHICLE  
    ... LOKI ROCKET VEHICLE  
    ... NOMAD LAUNCH VEHICLE  
    ... VERONIQUE ROCKET VEHICLES  
    ... VIKING ROCKET VEHICLE  
    ... ZUNI ROCKET VEHICLE  
RT MAULER MISSILE  
  ROCKET ENGINES  
  ∞ VEHICLES

### SINGLE STAGE TO ORBIT VEHICLES

GS LAUNCH VEHICLES  
  ... REUSABLE LAUNCH VEHICLES  
  ... **SINGLE STAGE TO ORBIT VEHICLES**  
    ... HOTOL LAUNCH VEHICLE  
RT NASA PROGRAMS  
  SPACE SHUTTLES  
  SPACE TRANSPORTATION  
  ∞ VEHICLES  
  X-30 VEHICLE

### SINGLE-PHASE FLOW

UF ONE-PHASE FLOW  
  UNIPHASE FLOW  
GS FLUID FLOW  
  ... **SINGLE-PHASE FLOW**  
RT CRITICAL FLOW  
  GAS FLOW  
  LAMINAR FLOW  
  LIQUID FLOW  
  MASS FLOW  
  MULTIPHASE FLOW  
  ORIFICE FLOW  
  PIPE FLOW  
  STEADY FLOW  
  STEAM FLOW  
  SUBCRITICAL FLOW  
  SUPERCRITICAL FLOW  
  TURBULENT FLOW  
  TWO PHASE FLOW  
  UNIFORM FLOW  
  UNSTEADY FLOW

### SILOX HELICOPTER

USE OH-13 HELICOPTER

### SIPHONING

RT ∞ FLUIDS  
  SIPHONS  
  THERMOSIPHONS

### SIPHONS

RT MATERIALS HANDLING  
  PIPELINES  
  PIPES (TUBES)  
  PUMPS  
  SIPHONING  
  ∞ TUBES

### SIRENS

RT HORNS  
  NOISE INTENSITY  
  SIGNAL GENERATORS  
  ∞ SIGNALS

### SIRENS-(CONT.)

SOUND GENERATORS  
SOUND INTENSITY  
SOUND TRANSMISSION  
WARNING SYSTEMS

### SITE DATA PROCESSORS

UF SDP (COMPUTERS)  
GS DATA PROCESSING EQUIPMENT  
  COMPUTERS  
  ... **SITE DATA PROCESSORS**  
RT APOLLO PROJECT  
  ∞ DATA  
  DATA LINKS  
  DATA PROCESSING

### SITE SELECTION

GS SELECTION  
  ... **SITE SELECTION**  
RT AIRPORTS  
  CERTIFICATION  
  ∞ FACILITIES  
  INDUSTRIAL AREAS  
  LAND USE  
  LEASING  
  LOGISTICS  
  OPTIONS  
  RESOURCES  
  ROADS  
  ROUTES  
  SERVICES  
  SITES  
  TERMINAL FACILITIES  
  TRANSPORTATION  
  UTILITIES

### SITES

UF TRACTS  
GS **SITES**  
  ... ARIZONA REGIONAL ECOLOGICAL  
    TEST SITE  
  ... CENTRAL ATLANTIC REGIONAL ECOL  
    TEST SITE  
  ... LANDING SITES  
  ... LUNAR LANDING SITES  
  ... LAUNCHING SITES  
  ... LAUNCHING PADS  
  ... OFFSHORE REACTOR SITES  
RT AIRPORT PLANNING  
  BARREN LAND  
  ∞ FACILITIES  
  LAND  
  ∞ PLOTS  
  POSITION (LOCATION)  
  REGIONS  
  RURAL LAND USE  
  SITE SELECTION

### SKID LANDINGS

GS LANDING  
  ... AIRCRAFT LANDING  
  ... **SKID LANDINGS**  
RT AIR CUSHION LANDING SYSTEMS  
  CRASH LANDING  
  HYDROPLANING  
  SKIDDING

### SKIDDING

RT HYDROPLANING  
  LANDING GEAR  
  SIDESLIP  
  SKID LANDINGS  
  SLEDS  
  YAW

### SKIN (STRUCTURAL MEMBER)

GS MEMBRANES  
  ... MEMBRANE STRUCTURES  
  ... **SKIN (STRUCTURAL MEMBER)**  
  STRUCTURAL MEMBERS  
  ... MEMBRANE STRUCTURES  
  ... **SKIN (STRUCTURAL MEMBER)**  
RT AIRCRAFT CONSTRUCTION MATERIALS  
  ∞ CONSTRUCTION MATERIALS  
  HULLS (STRUCTURES)  
  METAL SHELLS  
  SHELLS (STRUCTURAL FORMS)  
  STRESSED-SKIN STRUCTURES  
  THIN WALLED SHELLS  
  THIN WALLS  
  TOROIDAL SHELLS  
  WEBS (SUPPORTS)

### SKIN FRICTION

UF FRICTION PRESSURE DROP

### SKIN FRICTION-(CONT.)

GS FRICTION  
  ... **SKIN FRICTION**  
  ... FRICTION DRAG  
  ... AERODYNAMIC DRAG  
  ... SUPERSONIC DRAG  
  ... VISCOUS DRAG  
RT AERODYNAMIC HEATING  
  DRAG  
  DRAG DEVICES  
  FLOW RESISTANCE  
  FLUID FLOW  
  FRICTION FACTOR  
  RIBBLETS  
  STREAMLINING

### SKIN RESISTANCE

GS ELECTRICAL PROPERTIES  
  ... ELECTRICAL IMPEDANCE  
  ... ELECTRICAL RESISTANCE  
  ... **SKIN RESISTANCE**  
  IMPEDANCE  
  ... ELECTRICAL IMPEDANCE  
  ... ELECTRICAL RESISTANCE  
  ... **SKIN RESISTANCE**  
RT ∞ RESISTANCE

### SKIN TEMPERATURE (NON-BIOLOGICAL)

GS SURFACE PROPERTIES  
  ... SURFACE TEMPERATURE  
  ... **SKIN TEMPERATURE**  
  (NON-BIOLOGICAL)  
  TEMPERATURE  
  ... SURFACE TEMPERATURE  
  ... **SKIN TEMPERATURE**  
  (NON-BIOLOGICAL)  
RT AERODYNAMIC HEATING  
  AEROTHERMODYNAMICS

### SKIRTS

RT AFTERBODIES  
  BOATTAILS  
  CONICAL NOZZLES  
  EXHAUST NOZZLES  
  FOUNDATIONS  
  ∞ JET NOZZLES  
  ROCKET NOZZLES

### SKIS

RT HYDROFOILS  
  HYDROPLANES (SURFACES)  
  LANDING GEAR

### SKUA ROCKET VEHICLES

GS ROCKET VEHICLES  
  ... SOUNDING ROCKETS  
  ... **SKUA ROCKET VEHICLES**  
RT SOLID PROPELLANT ROCKET ENGINES  
  ∞ VEHICLES

### SKYBOLT MISSILE

GS MISSILES  
  ... BALLISTIC MISSILES  
  ... **SKYBOLT MISSILE**  
RT SOLID PROPELLANT ROCKET ENGINES

### SKYCRANE HELICOPTER

USE CH-54 HELICOPTER

### SKYDROL (TRADEMARK)

GS LIQUIDS  
  ... HYDRAULIC FLUIDS  
  ... **SKYDROL (TRADEMARK)**  
RT ESTERS  
  PHOSPHATES  
  PLASTICIZERS

### SKYHAWK AIRCRAFT

USE A-4 AIRCRAFT

### SKYHOOK BALLOONS

GS EXPANDABLE STRUCTURES  
  ... INFLATABLE STRUCTURES  
  ... BALLOONS  
  ... HIGH ALTITUDE BALLOONS  
  ... **SKYHOOK BALLOONS**  
RT HIGH ALTITUDE  
  METEOROLOGICAL BALLOONS  
  ROBIN BALLOONS  
  ROCKOONS

### SKYLARK

USE SKYLARK ROCKET VEHICLE

**SKYLARK ROCKET VEHICLE**

UF SKYLARK  
 GS ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . SKYLARK ROCKET VEHICLE  
 . SOUNDING ROCKETS  
 . . SKYLARK ROCKET VEHICLE  
 RT SOLID PROPELLANT ROCKET ENGINES

**SKYMASTER AIRCRAFT**

USE C-54 AIRCRAFT

**SKYRAIDER AIRCRAFT**

USE A-1 AIRCRAFT

**SKYROCKET AIRCRAFT**

USE D-558 AIRCRAFT

**SKYSTREAK AIRCRAFT**

USE D-558 AIRCRAFT

**SKYVAN AIRCRAFT**

USE SC-7 AIRCRAFT

**SKYWARRIOR AIRCRAFT**

USE A-3 AIRCRAFT

**SLAGS**

RT AGGREGATES  
 REACTION PRODUCTS  
 WASTES

**SLAM**

USE SUPERSONIC LOW ALTITUDE MISSILE

**SLANT**

USE SLOPES

**SLASHES**

USE CLEARINGS (OPENINGS)

**SLEDS**

GS SURFACE VEHICLES  
 . SLEDS  
 . . ROCKET PROPELLED SLEDS  
 RT DOLLIES  
 SKIDDING  
 TOWED BODIES  
 TRACTORS  
 TRAILERS

**SLENDER BODIES**

GS SLENDER BODIES  
 . SLENDER CONES  
 RT AERODYNAMIC CONFIGURATIONS  
 AERODYNAMICS  
 AXISYMMETRIC BODIES  
 . BODIES  
 . DUCTED BODIES  
 . FINENESS RATIO  
 . MISSILE BODIES  
 . STREAMLINED BODIES  
 . SYMMETRICAL BODIES  
 . THIN BODIES

**SLENDER CONES**

GS CONES  
 . CONICAL BODIES  
 . . SLENDER CONES  
 SLENDER BODIES  
 . SLENDER CONES  
 SYMMETRICAL BODIES  
 . BODIES OF REVOLUTION  
 . . CONICAL BODIES  
 . . SLENDER CONES  
 RT AERODYNAMIC CONFIGURATIONS  
 AXISYMMETRIC BODIES

**SLENDER WINGS**

UF HIGH ASPECT RATIO WINGS  
 GS AIRFOILS  
 . WINGS  
 . . SLENDER WINGS  
 . . INFINITE SPAN WINGS  
 RT FIXED WINGS  
 WING PLANFORMS

**SLIDING FRICTION**

GS FRICTION  
 . KINETIC FRICTION  
 . . SLIDING FRICTION  
 RT COEFFICIENT OF FRICTION  
 DRY FRICTION  
 ELECTRIC CONTACTS

**SLIDING FRICTION-(CONT.)**

$\infty$  SLIDING CONTACT  
 STATIC FRICTION  
 WEAR  
 WEAR RESISTANCE

 $\infty$  SLIP

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)  
 RT PLASTIC DEFORMATION  
 POLYSLIPS  
 SIDESLIP  
 SLIDING

**SLIP FLOW**

SN (LIMITED TO RAREFIED GAS FLOW IN  
 THE REGION BETWEEN KNUDSEN  
 NUMBERS 0.01 AND 0.1  
 ONLY-EXCLUDES TRANSITION FLOW,  
 FREE MOLECULE FLOW CREEP, SHEAR  
 FLOW, AND PLASTIC FLOW)  
 GS FLUID FLOW  
 . GAS FLOW  
 . . MOLECULAR FLOW  
 . . . SLIP FLOW  
 RT CONTINUUM FLOW  
 FREE MOLECULAR FLOW  
 LOW DENSITY WIND TUNNELS  
 RAREFIED GAS DYNAMICS  
 TRANSITION FLOW

**SLIPSTREAMS**

GS WAKES  
 . AIRCRAFT WAKES  
 . . SLIPSTREAMS  
 . . . PROPELLER SLIPSTREAMS  
 . TURBULENT WAKES  
 . . SLIPSTREAMS  
 . . . PROPELLER SLIPSTREAMS  
 RT BACKWASH  
 STROUHAL NUMBER  
 TURBULENCE

**SLITS**

GS OPENINGS  
 . SLITS  
 RT APERTURES  
 FRESNEL REFLECTORS  
 SLOTS

**SLOPES**

UF CANT  
 SLANT  
 STEEPNESS  
 GS SLOPES  
 . GLIDE PATHS  
 RT ANGLES (GEOMETRY)  
 CLIFFS  
 ESCARPMENTS  
 $\infty$  GRADE  
 GRADIENTS  
 HEIGHT  
 $\infty$  INCLINATION  
 LANDFORMS  
 LANDSLIDES  
 LEVEL (HORIZONTAL)  
 PITCH (INCLINATION)  
 $\infty$  PROFILES  
 $\infty$  RAKES  
 RAMP FUNCTIONS  
 RAMPS (STRUCTURES)  
 TOPOGRAPHY

**SLOSHING**

USE LIQUID SLOSHING

**SLOTS**

GS SLOTS  
 . WING SLOTS  
 RT LIFT DEVICES  
 LOUVERS  
 OPENINGS  
 SLITS

**SLOTTED WIND TUNNELS**

GS TEST FACILITIES  
 . WIND TUNNELS  
 . . SLOTTED WIND TUNNELS  
 RT SUPERSONIC WIND TUNNELS  
 TRANSONIC WIND TUNNELS  
 TRISONIC WIND TUNNELS  
 VENTS

**SLV**

USE STANDARD LAUNCH VEHICLES

**SM-65 MISSILE**

USE ATLAS LAUNCH VEHICLES

**SM-68 MISSILE**

USE TITAN 1 ICBM

**SM-68B MISSILE**

USE TITAN 2 ICBM

**SMALL PERTURBATION FLOW**

GS FLUID FLOW  
 . SMALL PERTURBATION FLOW  
 RT FLOW DISTORTION  
 OSCILLATING FLOW

**SMOG**

RT AIR POLLUTION  
 AIR SAMPLING  
 CARBON MONOXIDE  
 COMBUSTION PRODUCTS  
 ENVIRONMENTAL CHEMISTRY  
 EXHAUST GASES  
 FLAMES  
 FOG  
 HYDROCARBON COMBUSTION  
 HYDROCARBON POISONING  
 LEAD POISONING  
 PARTICULATES  
 SMOKE

**SMOKE**

GS MIXTURES  
 . DISPERSIONS  
 . . PLASTISOLS  
 . . . SMOKE  
 RT AEROSOLS  
 AIR POLLUTION  
 COMBUSTION PRODUCTS  
 DUST  
 EXHAUST GASES  
 FIRE DAMAGE  
 FOG  
 FOREST FIRES  
 FUMES  
 HAZE DETECTION  
 $\infty$  MARKERS  
 PARTICLES  
 PARTICULATES  
 SMOG  
 SOOT  
 VAPORS  
 VISIBILITY

**SMOKE TRAILS**

RT  $\infty$  TRACKS  
 WIND DIRECTION  
 WIND MEASUREMENT  
 WIND PROFILES

**SNAKING**

USE LATERAL OSCILLATION

**SNOW AERIAL APPLICATOR AIRCRAFT S-2B**

USE S-2 AIRCRAFT

**SNOW AIRCRAFT**

GS SNOW AIRCRAFT  
 . S-2 AIRCRAFT  
 RT  $\infty$  AIRCRAFT  
 UTILITY AIRCRAFT

**SNOW S-2 AIRCRAFT**

USE S-2 AIRCRAFT

**SOARING**

RT CLIMBING FLIGHT  
 COASTING FLIGHT  
 $\infty$  FLIGHT  
 GLIDERS  
 GLIDING  
 HANG GLIDERS  
 HORIZONTAL FLIGHT  
 MAN POWERED AIRCRAFT  
 VERTICAL AIR CURRENTS

**SOFTENING**

SN (EXCLUDES WATER SOFTENING)  
 GS SOFTENING  
 . WORK SOFTENING  
 RT ANNEALING  
 DEIONIZATION

## SOLAR AZIMUTH

### SOFTENING-(CONT.)

DEMINERALIZING  
DIGESTING  
DISSOLVING  
HARDENING (MATERIALS)  
ION EXCHANGING

### SOLAR AZIMUTH

USE AZIMUTH  
SOLAR POSITION

### SOLAR COMPASSES

GS MEASURING INSTRUMENTS  
. INDICATING INSTRUMENTS  
. COMPASSES  
. . . SOLAR COMPASSES  
NAVIGATION AIDS  
. NAVIGATION INSTRUMENTS  
. COMPASSES  
. . . SOLAR COMPASSES  
RT AIR NAVIGATION  
AIR TRAFFIC CONTROL  
AIRCRAFT SAFETY  
AIRPORT BEACONS  
ALL-WEATHER AIR NAVIGATION  
APPROACH INDICATORS  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC PILOTS  
BEACONS  
DECCA NAVIGATION  
DISPLAY DEVICES  
DISTANCE MEASURING EQUIPMENT  
FLIGHT CONTROL  
FLIGHT INSTRUMENTS  
FLIGHT PATHS  
GYROCOMPASSES  
HELIPORTS  
HOMING DEVICES  
LANDING AIDS  
LORAN  
MAGNETIC COMPASSES  
OMNIDIRECTIONAL RADIO RANGES  
POSITION INDICATORS  
RADAR BEACONS  
RADIO BEACONS  
RADIO NAVIGATION  
SELF CALIBRATING OMNIRANGE  
SHORAN  
SUN  
TACAN  
VHF OMNIRANGE NAVIGATION  
WEATHER

### SOLAR LONGITUDE

GS LONGITUDE  
. SOLAR LONGITUDE  
RT ASTRONOMICAL COORDINATES  
CELESTIAL REFERENCE SYSTEMS  
SUN

### SOLAR POWERED AIRCRAFT

RT  $\infty$  AIRCRAFT  
SOLAR CELLS  
SOLAR ELECTRIC PROPULSION  
SOLAR PROPULSION  
SUN

### SOLAR PROPULSION

GS PROPULSION  
. LOW THRUST PROPULSION  
. SOLAR PROPULSION  
. . . SOLAR ELECTRIC PROPULSION  
. . . SOLAR THERMAL PROPULSION  
SPACECRAFT PROPULSION  
. SOLAR PROPULSION  
. . . SOLAR ELECTRIC PROPULSION  
. . . SOLAR THERMAL PROPULSION  
RT SOLAR POWERED AIRCRAFT  
SUN

### SOLAR SENSORS

UF SUN SENSORS  
RT ATTITUDE CONTROL  
GUIDANCE SENSORS  
IRIS SATELLITES  
NAVIGATION AIDS  
NAVIGATION INSTRUMENTS  
STAR TRACKERS  
SUN  
TRACKING (POSITION)

### SOLENOID VALVES

GS VALVES  
. SOLENOID VALVES  
RT AUTOMATIC CONTROL VALVES

### SOLENOID VALVES-(CONT.)

ELECTRIC CONTROL  
 $\infty$  ELECTRIC EQUIPMENT  
ELECTRIC RELAYS  
ELECTRIC SWITCHES  
HYDRAULIC CONTROL  
OFF-ON CONTROL  
SOLENOIDS

### SOLID CRYOGEN COOLING

GS COOLING  
. SOLID CRYOGEN COOLING  
RT CRYOGENIC FLUIDS  
CRYOGENICS  
LIQUEFIED GASES

### SOLID CRYOGENS

GS GASES  
. SOLIDIFIED GASES  
. . . SOLID CRYOGENS  
. . . SOLID NITROGEN  
SOLIDS  
. SOLIDIFIED GASES  
. . . SOLID CRYOGENS  
. . . SOLID NITROGEN  
RT COOLING SYSTEMS  
CRYOGENIC EQUIPMENT  
CRYOGENICS  
LIQUID NITROGEN

### SOLID PROPELLANT IGNITION

GS COMBUSTION  
. PROPELLANT COMBUSTION  
. . . SOLID PROPELLANT COMBUSTION  
. . . SOLID PROPELLANT IGNITION  
IGNITION  
. SOLID PROPELLANT IGNITION  
RT HYBRID PROPELLANTS  
HYPERGOLIC ROCKET PROPELLANTS  
IGNITERS  
IGNITION TEMPERATURE  
INHIBITORS  
METAL COMBUSTION  
PYROPHORIC MATERIALS  
SQUIBS

### SOLID ROCKET BOOSTERS (SPACE SHUTTLE)

USE SPACE SHUTTLE BOOSTERS

### SOLID ROTATION

USE ROTATING BODIES

### SOLIDS FLOW

GS FLUID FLOW  
. SOLIDS FLOW  
RT  $\infty$  FLOW  
FLOW MEASUREMENT  
FLOW THEORY  
MASS FLOW  
MULTIPHASE FLOW  
PARTICLE SIZE DISTRIBUTION  
STEADY FLOW  
TWO PHASE FLOW  
UNIFORM FLOW  
UNSTEADY FLOW

### SOMMERFELD APPROXIMATION

GS ANALYSIS (MATHEMATICS)  
. NUMERICAL ANALYSIS  
. . . APPROXIMATION  
. . . SOMMERFELD APPROXIMATION  
RT ANTENNA RADIATION PATTERNS  
DIRECTIONAL ANTENNAS  
ELECTROMAGNETIC FIELDS  
RADIO TRANSMISSION

### SONAR

GS SONAR  
. SONOBUOYS  
RT DISTANCE MEASURING EQUIPMENT  
ECHO SOUNDING  
ECHO SUPPRESSORS  
HYDROPHONES  
LOFAR  
NAVIGATION AIDS  
SOUND LOCALIZATION  
SOUND RANGING  
ULTRASONIC WAVE TRANSDUCERS  
UNDERWATER ACOUSTICS  
UNDERWATER COMMUNICATION

### SONIC ANEMOMETERS

GS MEASURING INSTRUMENTS  
. ANEMOMETERS

### SONIC ANEMOMETERS-(CONT.)

RT  $\infty$  SONIC ANEMOMETERS  
ACOUSTICS  
FLOWMETERS  
HOT-FILM ANEMOMETERS  
VELOCITY MEASUREMENT

### SONIC BOOMS

GS ELASTIC WAVES  
. SHOCK WAVES  
. . . SONIC BOOMS  
. SOUND WAVES  
. . . NOISE (SOUND)  
. . . AIRCRAFT NOISE  
. . . . SONIC BOOMS  
RT ACOUSTIC VELOCITY  
AERODYNAMIC NOISE  
 $\infty$  BOOM  
CAUSTIC LINES  
JET AIRCRAFT NOISE  
SUPERSONIC FLIGHT  
TRANSONIC FLIGHT

### SONIC FLOW

USE TRANSONIC FLOW

### SOOT

GS PARTICLES  
. PARTICULATES  
. . . SOOT  
RT AIR POLLUTION  
CARBON  
COMBUSTION PRODUCTS  
FIRE DAMAGE  
SMOKE  
SMOKE ABATEMENT

### SORET COEFFICIENT

GS COEFFICIENTS  
. DIFFUSION COEFFICIENT  
. . . SORET COEFFICIENT  
TRANSPORT PROPERTIES  
. DIFFUSION COEFFICIENT  
. . . SORET COEFFICIENT  
RT LIQUID FLOW  
THERMAL DIFFUSION

### SOUND

USE ACOUSTICS

### SOUND-SOUND INTERACTIONS

RT HARMONICS  
 $\infty$  INTERACTIONS  
INTERMODULATION  
WAVE DISPERSION

### SPACE ELECTRIC ROCKET TESTS

UF SERT (ROCKET TESTS)  
GS ENGINE TESTS  
. SPACE ELECTRIC ROCKET TESTS  
RT ELECTRIC ROCKET ENGINES  
FLIGHT TESTS  
GROUND TESTS  
SERT 1 SPACECRAFT  
SERT 2 SPACECRAFT  
 $\infty$  TESTS

### SPACE GLIDERS

USE LIFTING REENTRY VEHICLES

### SPACE SCIENCES

USE AEROSPACE SCIENCES

### SPACE SHUTTLE ASCENT STAGE

GS SPACECRAFT CONFIGURATIONS  
. SPACE SHUTTLE ASCENT STAGE  
RT ADVANCED SOLID ROCKET MOTOR (STS)  
ASCENT PROPULSION SYSTEMS  
EXTERNAL TANKS  
SPACE SHUTTLE BOOSTERS  
SPACE SHUTTLE ORBITERS  
SPACE SHUTTLE UPPER STAGES  
SPACE SHUTTLES  
STAGE SEPARATION

### SPACE SHUTTLE BOOSTERS

UF SHUTTLE BOOSTERS  
SOLID ROCKET BOOSTERS (SPACE SHUTTLE)  
SPACE SHUTTLE SOLID ROCKET MOTORS  
GS SRB (SOLID ROCKET BOOSTERS) ENGINES



**SPACE SHUTTLE BOOSTERS-(CONT.)**

- ROCKET ENGINES
- BOOSTER ROCKET ENGINES
- SPACE SHUTTLE BOOSTERS
- ADVANCED SOLID ROCKET MOTOR (STS)
- SOLID PROPELLANT ROCKET ENGINES
- SPACE SHUTTLE BOOSTERS
- ADVANCED SOLID ROCKET MOTOR (STS)
- RT BOOSTERS
- MANNED SPACECRAFT
- O RING SEALS
- REUSABLE SPACECRAFT
- SPACE SHUTTLE ASCENT STAGE

**SPACE SHUTTLE ORBITER 099**  
USE CHALLENGER (ORBITER)**SPACE SHUTTLE ORBITER 101**  
USE ENTERPRISE (ORBITER)**SPACE SHUTTLE ORBITER 102**  
USE COLUMBIA (ORBITER)**SPACE SHUTTLE ORBITER 103**  
USE DISCOVERY (ORBITER)**SPACE SHUTTLE ORBITER 104**  
USE ATLANTIS (ORBITER)

- SPACE SHUTTLE ORBITERS
- UF SHUTTLE ORBITERS
- GS MANNED SPACECRAFT
- SPACE SHUTTLE ORBITERS
- ATLANTIS (ORBITER)
- CHALLENGER (ORBITER)
- COLUMBIA (ORBITER)
- DISCOVERY (ORBITER)
- ENDEAVOUR (ORBITER)
- ENTERPRISE (ORBITER)
- REENTRY VEHICLES
- RECOVERABLE SPACECRAFT
- REUSABLE SPACECRAFT
- SPACE SHUTTLE ORBITERS
- ATLANTIS (ORBITER)
- CHALLENGER (ORBITER)
- COLUMBIA (ORBITER)
- DISCOVERY (ORBITER)
- ENDEAVOUR (ORBITER)
- ENTERPRISE (ORBITER)
- RT INERTIAL UPPER STAGE
- MANNED SPACE FLIGHT
- MICROWAVE SCANNING BEAM LANDING SYSTEM
- PAYLOAD INTEGRATION PLAN
- SHUTTLE DERIVED VEHICLES
- SPACE SHUTTLE ASCENT STAGE
- SPACE TRANSPORTATION SYSTEM
- SPACECRAFT RECOVERY
- TERMINAL AREA ENERGY MANAGEMENT

**SPACE SHUTTLE SOLID ROCKET MOTORS**  
USE SPACE SHUTTLE BOOSTERS

- SPACE SHUTTLES
- GS MANNED SPACECRAFT
- SPACE SHUTTLES
- BURAN SPACE SHUTTLE
- HERMES MANNED SPACEPLANE
- REENTRY VEHICLES
- RECOVERABLE SPACECRAFT
- REUSABLE SPACECRAFT
- SPACE SHUTTLES
- BURAN SPACE SHUTTLE
- HERMES MANNED SPACEPLANE
- RT ADVANCED LAUNCH SYSTEM (STS)
- AEPS
- AEROMANEUVERING ORBIT TO ORBIT SHUTTLE
- ANNULAR SUSPENSION AND POINTING SYSTEM
- APPROACH AND LANDING TESTS (STS)
- ASSESS PROGRAM
- AUXILIARY PROPULSION
- BESS (SATELLITE)
- COLUMBUS SPACE STATION
- ENTRY GUIDANCE (STS)
- EURECA (ESA)
- EXPENDABLE STAGES (SPACECRAFT)
- GERMAN INFRARED LABORATORY
- HOTOL LAUNCH VEHICLE
- INERTIAL UPPER STAGE
- INTERIM STAGES (SPACECRAFT)

**SPACE SHUTTLES-(CONT.)**

- INTRAORBIT TRANSFER VEHICLES
- LIRTS (TELESCOPE)
- MANNED SPACE FLIGHT
- ORBIT MANEUVERING ENGINE (SPACE SHUTTLE)
- ORBIT TRANSFER VEHICLES
- ORBITAL MANEUVERS
- PAYLOAD CONTROL
- PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM
- PAYLOAD RETRIEVAL (STS)
- SAIL PROJECT
- SHUTTLE DERIVED VEHICLES
- SHUTTLE ENGINEERING SIMULATOR
- SHUTTLE PALLET SATELLITES
- SINGLE STAGE TO ORBIT VEHICLES
- SORTIE SYSTEMS
- SPACE SHUTTLE ASCENT STAGE
- SPACE TRANSPORTATION SYSTEM
- SPACE TRANSPORTATION SYSTEM FLIGHTS
- SPACECRAFT
- SPACECRAFT RECOVERY
- SPACELAB

**SPACE SYSTEMS ENGINEERING**  
USE AEROSPACE ENGINEERING**SPACE WEAPONS**

- GS WEAPONS
- SPACE WEAPONS
- RT AIR TO AIR MISSILES
- ANTIMISSILE MISSILES
- CHAPARRAL MISSILE
- LASER WEAPONS
- MINUTEMAN ICBM
- NUCLEAR WEAPONS
- SURFACE TO AIR MISSILES
- WEAPON SYSTEMS
- WEAPONS DELIVERY

**SPACECRAFT BREAKUP**

- UF BREAKUP (SPACECRAFT)
- ORBITAL BREAKUP
- REENTRY BREAKUP
- SATELLITE BREAKUP
- SATELLITE FRAGMENTATION
- RT ATMOSPHERIC ENTRY
- DESTRUCTION
- HAZARDS
- METEOROID HAZARDS
- ORBIT DECAY
- REENTRY EFFECTS
- SPACE DEBRIS
- SPACECRAFT REENTRY
- SPACECRAFT SURVIVABILITY
- UNCONTROLLED REENTRY (SPACECRAFT)
- WRECKAGE

**SPACECRAFT DESIGN**

- GS SPACECRAFT DESIGN
- IPAD
- SATELLITE DESIGN
- RT ADVANCED LAUNCH SYSTEM (STS)
- COMPUTER AIDED DESIGN
- DESIGN
- ENGINE DESIGN
- HERMES MANNED SPACEPLANE
- INDIAN SPACE PROGRAM
- JAPANESE SPACE PROGRAM
- LOFTING
- PRODUCT DEVELOPMENT
- SATELLITE TEMPERATURE
- SHUTTLE DERIVED VEHICLES
- SPACE DEBRIS
- SPACECRAFT TEMPERATURE
- STRUCTURAL DESIGN
- SYSTEMS ENGINEERING
- TRANSATMOSPHERIC VEHICLES
- WEIGHT REDUCTION

**SPACECRAFT LAUNCHING**

- UF SATELLITE LAUNCHING
- GS LAUNCHING
- SPACECRAFT LAUNCHING
- LIFTOFF (LAUNCHING)
- RT COUNTDOWN
- HEAVY LIFT LAUNCH VEHICLES
- HOTOL LAUNCH VEHICLE
- LAUNCH DATES
- LAUNCH VEHICLES
- LAUNCH WINDOWS
- LAUNCHING PADS

**SPACECRAFT LAUNCHING-(CONT.)**

- MISSILES
- ORBITAL LAUNCHING
- ORBITAL SHOTS
- POSTLAUNCH REPORTS
- PRELAUNCH SUMMARIES
- RAILGUN ACCELERATORS
- REUSABLE LAUNCH VEHICLES
- ROCKET LAUNCHING
- SPACE COMMERCIALIZATION

**SPACECRAFT MOTION**

- SN (NONTRAJECTORY MOTION)
- RT AERODYNAMIC BALANCE
- AERODYNAMIC STABILITY
- ATTITUDE STABILITY
- BUFFETING
- CONTROL STABILITY
- DYNAMIC STABILITY
- FLEXIBLE SPACECRAFT
- FLUTTER
- MOTION
- MOTION STABILITY
- OSCILLATIONS
- SIDELIP
- STABILITY
- TUMBLING MOTION
- VIBRATION

**SPACECRAFT ORBITAL ASSEMBLY**  
USE ORBITAL ASSEMBLY**SPACECRAFT REENTRY**

- GS ATMOSPHERIC ENTRY
- REENTRY
- SPACECRAFT REENTRY
- UNCONTROLLED REENTRY (SPACECRAFT)
- RT EARTH-VENUS TRAJECTORIES
- ENTRY GUIDANCE (STS)
- FLIGHT MECHANICS
- HYPERSONIC REENTRY
- LIFTING REENTRY VEHICLES
- MANNED REENTRY
- RETURN TO EARTH SPACE FLIGHT
- SATELLITE LIFETIME
- SPACECRAFT BREAKUP

**SPACECRAFT STABILITY**

- UF SATELLITE ATTITUDE DISTURBANCE
- GS DYNAMIC CHARACTERISTICS
- DYNAMIC STABILITY
- MOTION STABILITY
- SPACECRAFT STABILITY
- STABILITY
- DYNAMIC STABILITY
- MOTION STABILITY
- SPACECRAFT STABILITY
- RT AERODYNAMIC BALANCE
- AERODYNAMIC STABILITY
- ATTITUDE STABILITY
- BUFFETING
- CONTROL STABILITY
- COUNTERBALANCES
- DIRECTIONAL STABILITY
- DISCOS (SATELLITE ATTITUDE CONTROL)
- DUAL SPIN SPACECRAFT
- LATERAL STABILITY
- LIQUID SLOSHING
- LONGITUDINAL STABILITY
- LOW SPEED STABILITY
- NUTATION DAMPERS
- SATELLITE PERTURBATION
- TUMBLING MOTION
- WIND TUNNEL STABILITY TESTS

**SPACECRAFT STRUCTURES**

- RT AIRCRAFT STRUCTURES
- FOLDING STRUCTURES
- FUEL TANKS
- LARGE SPACE STRUCTURES
- METEOROID PROTECTION
- ORBITAL ASSEMBLY
- ROCKET ENGINES
- SATELLITE DESIGN
- SMART STRUCTURES
- SPACE ERECTABLE STRUCTURES
- SPACE STATION STRUCTURES
- STRUCTURAL DESIGN
- STRUCTURES

**SPACING**

- GS SPACING
- AIRCRAFT APPROACH SPACING

## SPAN

### SPACING-(CONT.)

RT ALTITUDE CONTROL  
ATTITUDE CONTROL  
CLEARANCES  
INTERVALS  
ISOLATION  
POSITIONING  
∞ SEPARATION  
SPACERS  
THICKNESS

### SPAN

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
RT ASPECT RATIO  
DIMENSIONS  
LIFE SPAN  
WIDTH  
WING SPAN

### SPANLOADER AIRCRAFT

GS TRANSPORT AIRCRAFT  
CARGO AIRCRAFT  
SPANLOADER AIRCRAFT  
RT ∞ AIRCRAFT  
SUPERCRITICAL WINGS  
SWEPT WINGS

### SPANWISE BLOWING

GS BLOWING  
SPANWISE BLOWING  
RT CROSS FLOW  
EXTERNALLY BLOWN FLAPS  
JET FLOW  
LIFT AUGMENTATION  
PRESSURE DISTRIBUTION  
WING SPAN

### SPARK IGNITION

GS IGNITION  
SPARK IGNITION  
RT COMBUSTION  
ELECTRIC IGNITION  
ELECTRIC SPARKS  
EUDIOMETERS

### SPARK PLUGS

RT ARC GENERATORS  
COMBUSTION CHAMBERS  
ELECTRIC SPARKS  
IGNITERS  
IGNITION SYSTEMS  
INTERNAL COMBUSTION ENGINES

### SPARK SHADOWGRAPH PHOTOGRAPHY

USE SHADOWGRAPH PHOTOGRAPHY

### SPARKS

GS SPARKS  
ELECTRIC SPARKS  
RT IGNITION

### SPARROW MISSILES

GS MISSILES  
AIR TO AIR MISSILES  
SPARROW MISSILES  
SPARROW 2 MISSILE  
SPARROW 3 MISSILE  
RT SOLID PROPELLANT ROCKET ENGINES

### SPARROW 2 MISSILE

GS MISSILES  
AIR TO AIR MISSILES  
SPARROW MISSILES  
SPARROW 2 MISSILE  
RT SOLID PROPELLANT ROCKET ENGINES

### SPARROW 3 MISSILE

GS MISSILES  
AIR TO AIR MISSILES  
SPARROW MISSILES  
SPARROW 3 MISSILE  
RT LIQUID PROPELLANT ROCKET ENGINES

### SPARTAN MISSILE

GS MISSILES  
ANTIMISSILE MISSILES  
SPARTAN MISSILE  
RT NIKE-ZEUS MISSILE  
SENTINEL SYSTEM  
SPRINT MISSILE  
SURFACE TO AIR MISSILES

### SPATIAL MARCHING

RT ACOUSTIC DUCTS  
DUCT GEOMETRY  
NUMERICAL ANALYSIS  
TIME MARCHING

### SPATIAL ORIENTATION

USE ATTITUDE (INCLINATION)

### SPATIAL RESOLUTION

GS RESOLUTION  
SPATIAL RESOLUTION  
RT ATMOSPHERIC CORRECTION  
HIGH RESOLUTION  
IMAGE PROCESSING  
IMAGE RESOLUTION  
IMAGING TECHNIQUES  
SPECTRAL RESOLUTION  
TEMPORAL RESOLUTION

### SPECIFIC GRAVITY

USE DENSITY (MASS/VOLUME)

### SPECIFIC IMPULSE

RT IMPULSES  
MASS FLOW RATE  
PROPELLANT MASS RATIO  
PROPELLANTS  
PROPULSION SYSTEM PERFORMANCE  
PROPULSIVE EFFICIENCY  
ROCKET PROPELLANTS  
ROCKET THRUST  
THERMODYNAMIC EFFICIENCY  
THRUST

### SPECKLE HOLOGRAPHY

GS IMAGERY  
HOLOGRAPHY  
SPECKLE HOLOGRAPHY  
IMAGING TECHNIQUES  
SPECKLE HOLOGRAPHY  
PHOTOGRAPHY  
HOLOGRAPHY  
RT COHERENT LIGHT  
DIFFRACTION PATTERNS  
HOLOGRAMMETRY  
HOLOGRAPHIC INTERFEROMETRY  
IMAGE CORRELATORS  
LASER APPLICATIONS  
SCATTER PLATES (OPTICS)  
SPATIAL FILTERING  
SPECKLE INTERFEROMETRY  
SPECKLE PATTERNS

### SPECKLE INTERFEROMETRY

GS INTERFEROMETRY  
SPECKLE INTERFEROMETRY  
RT DIFFRACTION PATTERNS  
FRESNEL DIFFRACTION  
FRESNEL REFLECTORS  
INFRARED INTERFEROMETERS  
ISOCROMATICS  
LASER APPLICATIONS  
NULL ZONES  
PLASMA FLUX MEASUREMENT  
SAGNAC EFFECT  
SCATTER PLATES (OPTICS)  
SPECKLE HOLOGRAPHY

### SPECTROGRAPHS

GS SPECTROGRAPHS  
HIGH DISPERSION SPECTROGRAPHS  
RT SPECTRA  
SPECTROGRAMS  
SPECTROMETERS  
SPECTROSCOPIC ANALYSIS  
SPECTROSCOPY

### SPECTROMETERS

UF SPECTROMETRY  
SPECTROSCOPES  
GS MEASURING INSTRUMENTS  
SPECTROMETERS  
EBERT SPECTROMETERS  
FABRY-PEROT SPECTROMETERS  
GAMMA RAY SPECTROMETERS  
IMAGING SPECTROMETERS  
INFRARED SPECTROMETERS  
FILTER WHEEL INFRARED  
SPECTROMETERS  
LASER SPECTROMETERS  
MASS SPECTROMETERS  
MICROWAVE SPECTROMETERS  
NEUTRON SPECTROMETERS

### SPECTROMETERS-(CONT.)

SOLAR BACKSCATTER UV  
SPECTROMETER  
SOLAR SPECTROMETERS  
SPECTROHELIOGRAPHS  
TIME OF FLIGHT SPECTROMETERS  
ULTRAVIOLET SPECTROMETERS  
HIGH DISPERSION  
SPECTROGRAPHS  
TOTAL OZONE MAPPING  
SPECTROMETER  
RT ACTINOMETERS  
CHEMICAL ANALYSIS  
DIFFRACTOMETERS  
ELECTRON PROBES  
GONIOMETERS  
INFRARED SPECTROSCOPY  
MICHELSON INTERFEROMETERS  
OPTICAL EQUIPMENT  
OPTICAL MEASUREMENT  
PHOTOGONIOMETERS  
PHOTOGRAPHIC MEASUREMENT  
PHOTOMETERS  
RADIATION COUNTERS  
SOLAR INSTRUMENTS  
SPECTRA  
SPECTRAL REFLECTANCE  
SPECTROGRAPHS  
SPECTRORADIOMETERS  
SPECTROSCOPIC ANALYSIS  
SPECTROSCOPY  
SPECTRUM ANALYSIS

### SPECTROMETRY

USE SPECTROMETERS

### SPECTROPHOTOGRAPHY

GS IMAGERY  
SPECTROPHOTOGRAPHY  
PHOTOGRAPHY  
SPECTROPHOTOGRAPHY  
SPECTROSCOPY  
SPECTROPHOTOGRAPHY  
RT BLACK AND WHITE PHOTOGRAPHY  
GROUND TRUTH  
SPECTRAL CORRELATION  
SPECTRAL RECONNAISSANCE  
SPECTROGRAMS

### SPECTROPOLARIMETERS

USE POLARIMETERS

### SPECTROSCOPES

USE SPECTROMETERS

### SPEED

USE VELOCITY

### SPEED CONTROL

UF SPEED REGULATION  
RT AUTOMATIC CONTROL  
CONTROL  
CONTROL EQUIPMENT  
CONTROLLERS  
ENGINE CONTROL  
HELICOPTER CONTROL  
MANUAL CONTROL  
REGULATORS

### SPEED INDICATORS

UF PRESTON TUBES  
SPEEDOMETERS  
DISPLAY DEVICES  
SPEED INDICATORS  
TACHOMETERS  
MEASURING INSTRUMENTS  
INDICATING INSTRUMENTS  
SPEED INDICATORS  
TACHOMETERS  
RT ACCELEROMETERS  
AIRCRAFT INSTRUMENTS  
ANEMOMETERS  
APPROACH INDICATORS  
FLIGHT INSTRUMENTS  
FLOWMETERS  
LANDING INSTRUMENTS  
PITOT TUBES  
VELOCITY MEASUREMENT

### SPEED REGULATION

USE SPEED CONTROL

### SPEED REGULATORS

UF GOVERNORS

**SPEED REGULATORS-(CONT.)**

- GS CONTROL EQUIPMENT
- REGULATORS
- RT SPEED REGULATORS
- CONTROLLERS
- ENGINES

**SPEEDOMETERS**

- USE SPEED INDICATORS

**SPHERES**

- GS SYMMETRICAL BODIES
- BODIES OF REVOLUTION
- SPHERES
- CELESTIAL SPHERE
- CONCENTRIC SPHERES
- FALLING SPHERES
- POINCARÉ SPHERES
- ROTATING SPHERES
- RT AERODYNAMIC CONFIGURATIONS
- ASPHERICITY
- BALLS
- CIRCLES (GEOMETRY)
- EUCLIDEAN GEOMETRY
- GEOMETRY
- GLOBES
- GLOBULES
- HEMISPHERES
- HEMISPHERICAL SHELLS
- MICROBALLOONS
- NODULES
- OGIVES
- SPHERICAL SHELLS
- SPHEROIDS
- SPHERULES

**SPHERICAL SHELLS**

- GS SHELLS (STRUCTURAL FORMS)
- SPHERICAL SHELLS
- SPHERICAL CAPS
- RT BODIES OF REVOLUTION
- CIRCULAR SHELLS
- HEMISPHERICAL SHELLS
- METAL SHELLS
- REINFORCED SHELLS
- ROTATING SPHERES
- SPHERES
- STRESSED-SKIN STRUCTURES
- THIN WALLED SHELLS

**SPHERICAL WAVES**

- RT CYLINDRICAL WAVES
- DIFFRACTION PATHS
- DIFFRACTION PROPAGATION
- ELASTIC WAVES
- ELECTROMAGNETIC RADIATION
- HUYGENS PRINCIPLE
- PLANE WAVES
- POINT SOURCES
- THREE DIMENSIONAL FLOW
- WAVES

**SPIKE NOZZLES**

- GS EXHAUST NOZZLES
- SPIKE NOZZLES
- RT CONICAL NOZZLES
- NOZZLE GEOMETRY
- NOZZLES
- PLUG NOZZLES
- ROCKET NOZZLES
- SPIKES

**SPIKES**

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*
- RT FASTENERS
- HOLDERS
- MONOPOLE ANTENNAS
- PINS
- SPIKE NOZZLES
- SPIKE POTENTIALS
- SPIKES (AERODYNAMIC CONFIGURATIONS)

**SPIKES (AERODYNAMIC CONFIGURATIONS)**

- RT SPIKES
- WIND TUNNELS

**SPIN**

- GS SPIN
- METAL SPINNING
- HYDROSPINNING
- PARTICLE SPIN

**SPIN-(CONT.)**

- ELECTRON SPIN
- ISOTOPIC SPIN
- NUCLEAR SPIN
- SPIN-ORBIT INTERACTIONS
- ELECTRON CAPTURE
- SPIN-SPIN COUPLING
- RT ANGULAR MOMENTUM
- NUCLEAR CAPTURE
- SPINNERS
- YO-YO DEVICES

**SPIN REDUCTION**

- UF DESPINNING
- JET DAMPING
- GS RATES (PER TIME)
- ACCELERATION (PHYSICS)
- DECELERATION
- RT SPIN REDUCTION
- ANGULAR ACCELERATION
- DESTABILIZATION
- GRAVITY GRADIENT SATELLITES
- REDUCTION
- SATELLITE ROTATION
- YO-YO DEVICES

**SPIN STABILIZATION**

- GS STABILIZATION
- SPIN STABILIZATION
- RT ATTITUDE CONTROL
- DUAL SPIN SPACECRAFT
- MISSILES
- OV-1 SATELLITES
- OV-2 SATELLITES
- OV-3 SATELLITES
- OV-4 SATELLITES
- OV-5 SATELLITES
- SATELLITE ORIENTATION
- SATELLITE ROTATION
- SPACE SHUTTLE UPPER STAGE D
- SPACE STATIONS
- SPINNERS

**SPINNING UNGUIDED ROCKET TRAJECTORY**

- UF SPURT (TRAJECTORIES)
- TRAJECTORIES
- GS SPINNING UNGUIDED ROCKET
- TRAJECTORY
- RT EQUATIONS OF MOTION
- MISSILE TRAJECTORIES
- ROTATING BODIES
- SYMMETRICAL BODIES

**SPIROMETERS**

- RT HEART MINUTE VOLUME
- LUNGS
- RESPIRATORY RATE

**SPLIT FLAPS**

- GS AIRFOILS
- FLAPS (CONTROL SURFACES)
- SPLIT FLAPS
- BRAKES (FOR ARRESTING MOTION)
- AERODYNAMIC BRAKES
- SPLIT FLAPS
- AIRCRAFT BRAKES
- SPLIT FLAPS
- CONTROL SURFACES
- FLAPS (CONTROL SURFACES)
- SPLIT FLAPS
- DRAG DEVICES
- AERODYNAMIC BRAKES
- SPLIT FLAPS
- RT JET FLAPS
- LEADING EDGE SLATS
- TRAILING EDGE FLAPS
- WING FLAPS

**SPOILER SLOT AILERONS**

- GS AIRFOILS
- AILERONS
- SPOILER SLOT AILERONS
- CONTROL SURFACES
- AILERONS
- SPOILER SLOT AILERONS
- RT SPOILERS

**SPOILERS**

- GS AIRFOILS
- SPOILERS
- CONTROL SURFACES
- SPOILERS
- DRAG DEVICES
- SPOILERS
- RT AERODYNAMIC BRAKES

**SPOILERS-(CONT.)**

- BOUNDARY LAYER CONTROL
- DEFLECTORS
- FLAPS (CONTROL SURFACES)
- GUST ALLEVIATORS
- LEADING EDGE SLATS
- SPOILER SLOT AILERONS
- VORTEX ALLEVIATION
- WINGS

**SPONTANEOUS COMBUSTION**

- GS COMBUSTION
- SPONTANEOUS COMBUSTION
- RT COMBUSTION TEMPERATURE
- EXPLOSIONS
- FIRE POINT
- FIRE PREVENTION
- FLAMMABILITY
- FLASH POINT
- FUEL COMBUSTION
- HAZARDS
- HYPERGOLIC ROCKET PROPELLANTS
- IGNITION
- IGNITION TEMPERATURE
- PROPELLANT SENSITIVITY
- PYROPHORIC MATERIALS

**SPRAY CHARACTERISTICS**

- RT CHARACTERISTICS
- SPRAYERS
- SPRAYING

**SPRAY CONDENSERS**

- RT JET CONDENSERS
- SPRAYERS

**SPRAY NOZZLES**

- RT ANNULAR NOZZLES
- CONICAL NOZZLES
- FUEL INJECTION
- FUEL SYSTEMS
- INJECTORS
- NOZZLES
- ORIFICES
- SPRAYERS

**SPRAYERS**

- UF SPRAYING APPARATUS
- SPRAYS
- RT ATOMIZERS
- BLOWERS
- COLLOIDAL GENERATORS
- CONTACTORS
- CONTAINERS
- DIFFUSERS
- DISPENSERS
- DISTRIBUTORS
- DROPS (LIQUIDS)
- EJECTORS
- FUEL SPRAYS
- JETS
- MATERIALS HANDLING
- MIXERS
- NOZZLES
- PROPELLANT SPRAYS
- SPRAY CHARACTERISTICS
- SPRAY CONDENSERS
- SPRAY NOZZLES
- SPRAYING
- VAPORIZERS

**SPRAYING**

- GS SPRAYING
- ARC SPRAYING
- CROP DUSTING
- FLAME SPRAYING
- METAL SPRAYING
- PLASMA SPRAYING
- RT AERATION
- AEROSOLS
- ATOMIZING
- BLOWING
- COATING
- COATINGS
- DIFFUSION
- DISPERSING
- ENTRAINMENT
- FORMING TECHNIQUES
- FUMIGATION
- LIQUID ATOMIZATION
- METALLIZING
- MIXING
- PREMIXING
- SEALING
- SPRAY CHARACTERISTICS

## SPRAYING APPARATUS

### SPRAYING-(CONT.)

SPRAYS  
SPRINKLING  
VAPORIZING  
WETTING

### SPRAYING APPARATUS

USE SPRAYERS

### SPRAYS

USE SPRAYERS

### SPREADING

RT ADHESION  
COHESION  
DIFFUSION  
DISPERSING  
DISPOSAL  
DUMPING  
EMPTYING  
INTERFACIAL TENSION  
INTERNAL PRESSURE  
MATERIALS HANDLING  
SCATTERING  
∞ SEPARATION  
SPILLING  
SWELLING  
THROWING  
UNLOADING

### SPRINT MISSILE

GS MISSILES  
ANTIMISSILE MISSILES  
SPRINT MISSILE  
SURFACE TO AIR MISSILES  
SPRINT MISSILE  
RT NIKE-ZEUS MISSILE  
SENTINEL SYSTEM  
SOLID PROPELLANT ROCKET ENGINES  
SPARTAN MISSILE

### SPURT (TRAJECTORIES)

USE SPINNING UNGUIDED ROCKET  
TRAJECTORY

### SQUEEZE FILMS

GS FLUID FILMS  
SQUEEZE FILMS  
RT BOUNDARY LUBRICATION  
ELASTOHYDRODYNAMICS  
∞ FILMS  
GAS BEARINGS  
GAS LUBRICANTS  
LIQUID-SOLID INTERFACES  
LUBRICANTS  
THIN FILMS  
VISCOELASTICITY  
VISCOUS FLUIDS

### SQUIBS

UF XM-6 SQUIB  
XM-8 SQUIB  
GS IGNITERS  
SQUIBS  
RT ELECTRIC IGNITION  
IGNITION SYSTEMS  
PRIMERS (EXPLOSIVES)  
SOLID PROPELLANT IGNITION  
STARTERS

### SQUID (DETECTORS)

UF SUPERCONDUCTING QUANTUM  
INTERFEROMETERS  
RT ∞ DETECTORS  
JOSEPHSON JUNCTIONS  
MAGNETIC MEASUREMENT  
QUANTUM COUNTERS  
SIS (SUPERCONDUCTORS)  
SUPERCONDUCTORS

### SQUID PROJECT

GS PROGRAMS  
PROJECTS  
SQUID PROJECT  
RT JET PROPULSION

### SR-N2 GROUND EFFECT MACHINE

USE WESTLAND GROUND EFFECT MACHINES

### SR-N3 GROUND EFFECT MACHINE

USE WESTLAND GROUND EFFECT MACHINES

### SR-N5 GROUND EFFECT MACHINE

USE WESTLAND GROUND EFFECT MACHINES

### SR-71 AIRCRAFT

UF BLACKBIRD AIRCRAFT  
GS LOCKHEED AIRCRAFT  
SR-71 AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
SR-71 AIRCRAFT  
SUPERSONIC AIRCRAFT  
SR-71 AIRCRAFT  
RT ∞ AIRCRAFT  
∞ MILITARY AIRCRAFT

### SRB (SOLID ROCKET BOOSTERS)

USE SPACE SHUTTLE BOOSTERS

### SS-11 MISSILE

GS MISSILES  
SS-11 MISSILE  
RT MULTISTAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES

### STABILITY

UF INSTABILITY  
GS STABILITY  
ACOUSTIC INSTABILITY  
BAROCLINIC INSTABILITY  
DYNAMIC STABILITY  
COMBUSTION STABILITY  
FLAME STABILITY  
CONTROL STABILITY  
FREQUENCY STABILITY  
MOTION STABILITY  
AERODYNAMIC STABILITY  
AIRCRAFT STABILITY  
HOVERING STABILITY  
ATTITUDE STABILITY  
DIRECTIONAL STABILITY  
GYROSCOPIC STABILITY  
LATERAL STABILITY  
LONGITUDINAL STABILITY  
FLOW STABILITY  
BOUNDARY LAYER STABILITY  
FLAME STABILITY  
MAGNETOHYDRODYNAMIC  
STABILITY  
WEIBEL INSTABILITY  
LOW SPEED STABILITY  
ROTARY STABILITY  
GYROSCOPIC STABILITY  
SPACECRAFT STABILITY  
GOERTLER INSTABILITY  
MAGNETOSPHERIC INSTABILITY  
STATIC STABILITY  
DIMENSIONAL STABILITY  
STRUCTURAL STABILITY  
SHELL STABILITY  
STORAGE STABILITY  
SURFACE STABILITY  
SYSTEMS STABILITY  
THERMAL STABILITY  
RT AMPLIFICATION  
BALLAST (MASS)  
COMPATIBILITY  
CONTROLLABILITY  
∞ DRIFT  
DRIFT RATE  
DURABILITY  
DYNAMIC CHARACTERISTICS  
EQUATIONS OF MOTION  
EQUILIBRIUM  
METASTABLE STATE  
QUALITY  
RELIABILITY  
∞ RESISTANCE  
SAFETY FACTORS  
SPACECRAFT MOTION  
STABILIZERS (AGENTS)  
STEADY STATE  
TOLERANCES (MECHANICS)  
TRESKA FLOW  
UNITY  
UNSTEADY STATE  
VARIABILITY  
VLASOV EQUATIONS  
VULNERABILITY

### STABILITY DERIVATIVES

UF AERODYNAMIC MOMENTS  
MOMENTS  
STABILITY DERIVATIVES  
PITCHING MOMENTS  
ROLLING MOMENTS  
YAWING MOMENTS  
RT COMPLEX VARIABLES  
DAMPING  
DIFFERENTIAL EQUATIONS

### STABILITY DERIVATIVES-(CONT.)

MOMENTS OF INERTIA  
REAL VARIABLES  
VECTOR ANALYSIS

### STABILITY TESTS

GS STABILITY TESTS  
FLIGHT STABILITY TESTS  
WIND TUNNEL STABILITY TESTS  
RT CORROSION TESTS  
DAMPING TESTS  
ELECTRONIC EQUIPMENT TESTS  
FLIGHT TESTS  
FUEL TESTS  
GROUND TESTS  
MISSILE TESTS  
PROPELLANT TESTS  
RESONANCE TESTING  
∞ TESTS  
VIBRATION TESTS

### STABILIZED PLATFORMS

RT GIMBALS  
GYROSCOPIC STABILITY  
GYROSTABILIZERS  
INERTIAL GUIDANCE  
∞ PLATFORMS  
THREE AXIS STABILIZATION

### ∞ STABILIZERS

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT GYROSCOPES  
SEA KEEPING  
STABILIZERS (AGENTS)  
STABILIZERS (FLUID DYNAMICS)

### STABILIZERS (FLUID DYNAMICS)

UF HORIZONTAL STABILIZERS  
VERTICAL STABILIZERS  
VERTICAL TAILS  
GS STABILIZERS (FLUID DYNAMICS)  
HORIZONTAL TAIL SURFACES  
RT AERIAL RUDDERS  
AIRFOILS  
CONTROL SURFACES  
∞ DYNAMICS  
ELEVATORS (CONTROL SURFACES)  
FINS  
KEELS  
RUDDERS  
∞ STABILIZERS  
SWEEPBACK TAIL SURFACES  
T TAIL SURFACES  
TABS (CONTROL SURFACES)  
TAIL ASSEMBLIES  
TAIL SURFACES  
TRAPEZOIDAL TAIL SURFACES

### STABLE OSCILLATIONS

GS OSCILLATIONS  
STABLE OSCILLATIONS  
RT DYNAMIC STABILITY  
FREQUENCY STABILITY  
GYROSCOPIC STABILITY  
MOTION STABILITY  
NONSTABILIZED OSCILLATION  
PILOT INDUCED OSCILLATION  
RESONANT VIBRATION  
TRANSVERSE OSCILLATION  
UNDAMPED OSCILLATIONS  
WING OSCILLATIONS

### STAGE SEPARATION

UF STAGING (ROCKETS)  
RT BOOSTER ROCKET ENGINES  
EXPENDABLE STAGES (SPACECRAFT)  
INTERIM STAGES (SPACECRAFT)  
LUNAR MODULE ASCENT STAGE  
MISSILES  
MULTISTAGE ROCKET VEHICLES  
PROPELLANT MASS RATIO  
ROCKET VEHICLES  
∞ SEPARATION  
SPACE SHUTTLE ASCENT STAGE  
SUSTAINER ROCKET ENGINES  
THRUST TERMINATION  
UPPER STAGE ROCKET ENGINES

### STAGGERING

RT ∞ CONFIGURATIONS  
DISORIENTATION

**STAGING (ROCKETS)**

USE STAGE SEPARATION

**STAGNATION FLOW**

GS FLUID FLOW  
 . INVISCID FLOW  
 . STAGNATION FLOW  
 RT BOUNDARY LAYER FLOW  
 BOUNDARY LAYER SEPARATION  
 COMPRESSIBLE FLOW  
 STAGNATION POINT

**STAGNATION POINT**

UF STAGNATION REGION  
 RT BLUNT BODIES  
 BOUNDARY LAYER FLOW  
 FLOW DISTRIBUTION  
 FLUID DYNAMICS  
 HEAT TRANSFER  
 STAGNATION FLOW

**STAGNATION PRESSURE**

GS PRESSURE  
 . STAGNATION PRESSURE  
 RT COMPRESSIBLE FLOW  
 INLET PRESSURE

**STAGNATION REGION**

USE STAGNATION POINT

**STAGNATION TEMPERATURE**

GS TEMPERATURE  
 . STAGNATION TEMPERATURE  
 RT ADIABATIC FLOW  
 COMPRESSIBLE FLOW  
 INVISCID FLOW

**∞ STALLING**

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)*  
 RT AERODYNAMIC STALLING  
 BOUNDARY LAYER SEPARATION  
 ENGINE FAILURE

**STANDARD LAUNCH VEHICLE 3**

USE ATLAS SLV-3 LAUNCH VEHICLE

**STANDARD LAUNCH VEHICLE 5**

GS LAUNCH VEHICLES  
 . STANDARD LAUNCH VEHICLES  
 . STANDARD LAUNCH VEHICLE 5  
 ROCKET VEHICLES  
 . STANDARD LAUNCH VEHICLES  
 . STANDARD LAUNCH VEHICLE 5

**STANDARD LAUNCH VEHICLES**

UF SLV  
 GS LAUNCH VEHICLES  
 . STANDARD LAUNCH VEHICLES  
 . ATLAS SLV-3 LAUNCH VEHICLE  
 . STANDARD LAUNCH VEHICLE 5  
 ROCKET VEHICLES  
 . STANDARD LAUNCH VEHICLES  
 . ATLAS SLV-3 LAUNCH VEHICLE  
 . STANDARD LAUNCH VEHICLE 5  
 RT ATLAS D ICBM  
 ∞ VEHICLES

**STANDING WAVE RATIOS**

GS RATIOS  
 . STANDING WAVE RATIOS  
 RT AMPLITUDES  
 ELECTRICAL PROPERTIES  
 SMITH CHART  
 TRANSMISSION LINES

**STANDING WAVES**

RT ANTINODES  
 BEAT FREQUENCIES  
 FREQUENCIES  
 HARMONICS  
 NODES (STANDING WAVES)  
 ∞ RADIATION  
 RESONANT FREQUENCIES  
 VIBRATION  
 WAVELENGTHS  
 ∞ WAVES

**STANTON NUMBER**

GS RATIOS  
 . DIMENSIONLESS NUMBERS  
 . STANTON NUMBER  
 RT FORCED CONVECTION

**STANTON NUMBER-(CONT.)**

HEAT TRANSFER

**STAR TRACKERS**

UF STAR TRACKING  
 GS TRACKING (POSITION)  
 . STAR TRACKERS  
 . CCD STAR TRACKER  
 RT ASTROGUIDE NAVIGATION SYSTEM  
 ASTROLABES  
 ATTITUDE CONTROL  
 CELESTIAL NAVIGATION  
 CHARGE INJECTION DEVICES  
 FLIGHT INSTRUMENTS  
 GUIDANCE SENSORS  
 INERTIAL NAVIGATION  
 MISSILE CONTROL  
 NAVIGATION  
 NAVIGATION AIDS  
 NAVIGATION INSTRUMENTS  
 SOLAR SENSORS  
 SPACECRAFT GUIDANCE

**STAR TRACKING**

USE STAR TRACKERS

**STARFIGHTER AIRCRAFT**

USE F-104 AIRCRAFT

**STARLIFTER AIRCRAFT**

USE C-141 AIRCRAFT

**STARTERS**

GS STARTERS  
 . ENGINE STARTERS  
 RT ACTUATORS  
 IGNITION SYSTEMS  
 SQUIBS  
 STARTING

**STARTING**

GS STARTING  
 . AIR START  
 RT ACTIVATION  
 ACTUATION  
 CYCLES  
 ELECTRIC IGNITION  
 ENGINE PRIMERS  
 EXCITATION  
 FIRING (IGNITING)  
 IGNITION  
 INITIATION  
 LAUNCHING  
 ∞ PRIMING  
 REACTOR STARTUP TESTS  
 STARTERS  
 STIMULATION

**STATE EQUATIONS**

USE EQUATIONS OF STATE

**STATIC AERODYNAMIC CHARACTERISTICS**

GS AERODYNAMIC CHARACTERISTICS  
 . STATIC AERODYNAMIC  
 CHARACTERISTICS  
 . STATIC CHARACTERISTICS  
 . STATIC AERODYNAMIC  
 CHARACTERISTICS  
 RT AERODYNAMIC BALANCE  
 AERODYNAMIC STABILITY  
 ∞ CHARACTERISTICS

**STATIC FIRING**

GS CAPTIVE TESTS  
 . STATIC TESTS  
 . STATIC FIRING  
 ENGINE TESTS  
 . STATIC FIRING  
 FIRING (IGNITING)  
 . TEST FIRING  
 . STATIC FIRING  
 GROUND TESTS  
 . PRELAUNCH TESTS  
 . STATIC FIRING  
 RT ROCKET FIRING

**STATIC PRESSURE**

GS PRESSURE  
 . STATIC PRESSURE  
 . HYDROSTATIC PRESSURE  
 RT ISOSTATIC PRESSURE  
 PITOT TUBES  
 SOUND PRESSURE

**STATIC STABILITY**

GS STABILITY  
 . STATIC STABILITY  
 . DIMENSIONAL STABILITY  
 . STRUCTURAL STABILITY  
 . SHELL STABILITY  
 RT AIRCRAFT STABILITY  
 COUNTERBALANCES  
 DRIFT (INSTRUMENTATION)  
 DYNAMIC STABILITY  
 MAGNETOHYDROSTATICS  
 STATIC CHARACTERISTICS  
 STORAGE STABILITY  
 STRATIFICATION  
 SURFACE STABILITY

**STATIC TESTS**

SN (ENCOMPASSES MATERIALS, ENGINE,  
 AND VEHICLE TESTS)  
 GS CAPTIVE TESTS  
 . STATIC TESTS  
 . STATIC FIRING  
 COLD FLOW TESTS  
 COMPRESSION TESTS  
 CREEP TESTS  
 DYNAMIC TESTS  
 ENGINE TESTS  
 FATIGUE TESTS  
 GROUND TESTS  
 HARDNESS TESTS  
 INSPECTION  
 LOAD TESTS  
 ∞ MATERIALS TESTS  
 MISSILE TESTS  
 NONDESTRUCTIVE TESTS  
 PREFIRING TESTS  
 PRELAUNCH TESTS  
 QUALITY CONTROL  
 RESONANCE TESTING  
 STATIC CHARACTERISTICS  
 TENSILE TESTS  
 TEST FIRING  
 ∞ TESTS  
 VIBRATION TESTS  
 WEAR TESTS

**STATIC THRUST**

GS THRUST  
 . STATIC THRUST  
 RT JET THRUST  
 ROCKET THRUST

**STATICS**

GS STATICS  
 . AEROSTATICS  
 . ELECTROSTATICS  
 . HYDROSTATICS  
 . MAGNETOHYDROSTATICS  
 RT ∞ DYNAMICS  
 ELASTOSTATICS  
 ∞ EQUILIBRIUM  
 FLUID MECHANICS  
 ∞ MECHANICS (PHYSICS)

**STATOR BLADES**

GS TURBOMACHINE BLADES  
 . STATOR BLADES  
 RT ∞ BLADES  
 COMPRESSOR BLADES  
 ROTOR BLADES (TURBOMACHINERY)  
 STATORS  
 TURBINE BLADES  
 VANES

**STATORS**

RT COMPRESSORS  
 ELECTRIC MOTORS  
 ∞ GENERATORS  
 IMPELLERS  
 MOTORS  
 PUMPS  
 ∞ ROTATING ELECTRICAL MACHINES  
 ROTORS  
 STATOR BLADES  
 TURBINES

**STEADY FLOW**

GS FLUID FLOW  
 . STEADY FLOW  
 . COUETTE FLOW  
 . HARTMANN FLOW  
 RT BELTRAMI FLOW  
 CONTINUITY EQUATION  
 CRITICAL FLOW  
 CROCCO METHOD

## STEADY STATE

### STEADY FLOW-(CONT.)

EQUILIBRIUM FLOW  
 ∞ FLOW  
 FLOW CHARACTERISTICS  
 FLOW GEOMETRY  
 FLOW STABILITY  
 GAS FLOW  
 HEAT TRANSMISSION  
 HYDRODYNAMIC COEFFICIENTS  
 LAMINAR FLOW  
 LIQUID FLOW  
 LOW TURBULENCE  
 MASS FLOW  
 METHOD OF CHARACTERISTICS  
 MULTIPHASE FLOW  
 NONNEWTONIAN FLOW  
 ORIFICE FLOW  
 PARALLEL FLOW  
 PIPE FLOW  
 PRESSURE GRADIENTS  
 QUASI-STEADY STATES  
 SINGLE-PHASE FLOW  
 SOLIDS FLOW  
 STEAM FLOW  
 STOKES FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENCE  
 TURBULENT FLOW  
 TWO DIMENSIONAL FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW

### STEADY STATE

RT ∞ EQUILIBRIUM  
 FLUID DYNAMICS  
 METASTABLE STATE  
 STABILITY  
 STATE VECTORS  
 UNSTEADY FLOW  
 UNSTEADY STATE

### STEADY STATE FLOW

USE EQUILIBRIUM FLOW

### STEAM

RT BOILERS  
 FOG  
 SUPERHEATING  
 THERMODYNAMICS  
 WATER  
 WATER VAPOR

### STEAM FLOW

GS FLUID FLOW  
 . STEAM FLOW  
 RT CRITICAL FLOW  
 GAS FLOW  
 LAMINAR FLOW  
 MASS FLOW  
 MULTIPHASE FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PIPELINES  
 PRESSURE GRADIENTS  
 SINGLE-PHASE FLOW  
 STEADY FLOW  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENT FLOW  
 UNIFORM FLOW  
 UNSTEADY FLOW

### STEAM TURBINES

GS TURBOMACHINERY  
 . TURBINES  
 . . STEAM TURBINES  
 RT AXIAL FLOW TURBINES  
 COMBINED CYCLE POWER GENERATION  
 GAS TURBINE ENGINES  
 GAS TURBINES  
 TURBOGENERATORS  
 TWO STAGE TURBINES

### STEEP GRADIENT AIRCRAFT

USE V/STOL AIRCRAFT

### STEEPNESS

USE SLOPES

### STEERING

RT ∞ CONTROL  
 CONTROL ROCKETS  
 CONTROLLABILITY  
 ELECTRON OPTICS

### STEERING-(CONT.)

∞ FLIGHT  
 FOCUSING  
 SUSPENSION SYSTEMS (VEHICLES)

### STEERING ROCKETS

USE CONTROL ROCKETS

### ∞ STEPS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
 RT BACKWARD FACING STEPS  
 PROGRAMMING (SCHEDULING)  
 STAIRSTEPS  
 STEP FUNCTIONS

### STEREOPHONICS

RT ACOUSTICS  
HEARING

### STEREOSCOPY

GS IMAGERY  
 . STEREOSCOPY  
 . . STEREOGRAPHY  
 PHOTOGRAPHY  
 . STEREOSCOPY  
 . . STEREOGRAPHY  
 RT STEREOSCOPIC VISION

### STERNS

USE AFTERBODIES

### STILLS

GS SEPARATORS  
 . STILLS  
 RT CONCENTRATORS  
 DISTILLATION EQUIPMENT

### STOKES FLOW

GS FLUID FLOW  
 . INCOMPRESSIBLE FLOW  
 . . STOKES FLOW  
 . VISCOS FLOW  
 . . STOKES FLOW  
 RT OSEEN APPROXIMATION  
 STEADY FLOW

### ∞ STOKES LAW

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
 RT LAWS  
 MAXWELL EQUATION  
 STOKES LAW (FLUID MECHANICS)  
 STOKES THEOREM (VECTOR CALCULUS)

### STOKES LAW (FLUID MECHANICS)

RT SETTLING  
 ∞ STOKES LAW  
 VISCOSITY

### STOKES-BELTRAMI EQUATION

RT ∞ EQUATIONS  
 LAPLACE EQUATION  
 STREAM FUNCTIONS (FLUIDS)

### STOL AIRCRAFT

USE SHORT TAKEOFF AIRCRAFT

### STORABLE PROPELLANTS

GS CONSUMABLES (SPACECRAFT)  
 . STORABLE PROPELLANTS  
 PROPELLANTS  
 . STORABLE PROPELLANTS  
 RT CRYOGENIC ROCKET PROPELLANTS  
 GASEOUS ROCKET PROPELLANTS  
 GELLED ROCKET PROPELLANTS  
 GROUND SUPPORT EQUIPMENT  
 HIGH TEMPERATURE PROPELLANTS  
 HYDROCARBON FUELS  
 HYPERGOLIC ROCKET PROPELLANTS  
 LIQUID ROCKET PROPELLANTS  
 PROPELLANT ADDITIVES  
 PROPELLANT DECOMPOSITION  
 PROPELLANT EVAPORATION  
 PROPELLANT SENSITIVITY  
 PROPELLANT STORABILITY  
 PROPELLANT STORAGE  
 ROCKET PROPELLANTS  
 SOLID PROPELLANTS  
 SPACE STORAGE

### STORE RELEASE

USE EXTERNAL STORE SEPARATION

### STOVL AIRCRAFT

USE V/STOL AIRCRAFT

### STRAIGHT WINGS

USE RECTANGULAR WINGS

### STRAIN GAGE ACCELEROMETERS

GS MEASURING INSTRUMENTS  
 . ACCELEROMETERS  
 . . STRAIN GAGE ACCELEROMETERS  
 RT PRESSURE GAGES

### STRAIN GAGE BALANCES

GS MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . WEIGHT INDICATORS  
 . . . STRAIN GAGE BALANCES  
 RT PRESSURE GAGES

### STRAIN GAGES

GS MEASURING INSTRUMENTS  
 . STRAIN GAGES  
 RT CABLE FORCE RECORDERS  
 DEFORMETERS  
 ELASTOMETERS  
 EXTENSOMETERS  
 FLIGHT LOAD RECORDERS  
 MECHANICAL MEASUREMENT  
 PIEZOELECTRIC GAGES  
 PRESSURE GAGES  
 ROSETTE SHAPES  
 SHOCK MEASURING INSTRUMENTS  
 STRAIN MEASUREMENT  
 STRESS MEASUREMENT  
 TEMPERATURE INVERSIONS  
 TENSOMETERS  
 TRANSDUCERS  
 WEIGHT INDICATORS

### STRAIN MEASUREMENT

RT ∞ MEASUREMENT  
 SMART STRUCTURES  
 STRAIN DISTRIBUTION  
 STRAIN GAGES  
 STRAIN RATE  
 STRESS-STRAIN DIAGRAMS  
 STRESS-STRAIN RELATIONSHIPS  
 STRUCTURAL STRAIN

### STRAIN SOFTENING

USE PLASTIC DEFORMATION

### STRAKES

GS STRUCTURAL MEMBERS  
 . STRAKES  
 RT AERODYNAMIC CONFIGURATIONS  
 HULLS (STRUCTURES)  
 LONGERONS  
 METAL STRIPS  
 RECTANGULAR PANELS  
 REINFORCEMENT (STRUCTURES)  
 WATER TUNNEL TESTS

### STRAPDOWN INERTIAL GUIDANCE

GS GUIDANCE (MOTION)  
 . INERTIAL GUIDANCE  
 . . STRAPDOWN INERTIAL GUIDANCE  
 RT INERTIAL NAVIGATION

### STRATIFICATION

GS STRATIFICATION  
 . ATMOSPHERIC STRATIFICATION  
 . INTERCALATION  
 RT ANTICLINES  
 BEDROCK  
 CROSSBEDDING (GEOLOGY)  
 FLAT LAYERS  
 FOLDS (GEOLOGY)  
 GEOSYNCLINES  
 ∞ LAYERS  
 STATIC STABILITY  
 STRATA  
 STRATIFIED FLOW  
 STRATIGRAPHY  
 SYNCLINES  
 TEMPERATURE GRADIENTS  
 THERMOCLINES

### STRATIFIED FLOW

GS FLUID FLOW  
 . LAMINAR FLOW

**STRATIFIED FLOW-(CONT.)**

RT . . . **STRATIFIED FLOW**  
BAROCLINIC WAVES  
BAROCLINITY  
COAXIAL FLOW  
FLOW GEOMETRY  
SHEAR FLOW  
STRATIFICATION

**STRATOFORTRESS AIRCRAFT**

USE B-52 AIRCRAFT

**STRATOJET AIRCRAFT**

USE B-47 AIRCRAFT

**STRATOTANKER AIRCRAFT**

USE C-135 AIRCRAFT

**STREAK CAMERAS**

GS OPTICAL EQUIPMENT  
. CAMERAS  
. . . **STREAK CAMERAS**  
PHOTOGRAPHIC EQUIPMENT  
. CAMERAS  
. . . **STREAK CAMERAS**  
RT CAMERA SHUTTERS  
CINEMATOGRAPHY  
LENSES

**STREAK PHOTOGRAPHY**

GS PHOTOGRAPHY  
. **STREAK PHOTOGRAPHY**  
RT CAMERAS  
ELECTRO-OPTICAL PHOTOGRAPHY  
HIGH SPEED CAMERAS  
IMAGING TECHNIQUES

**STREAM FUNCTIONS (FLUIDS)**

RT INCOMPRESSIBLE FLOW  
POTENTIAL THEORY  
STOKES-BELTRAMI EQUATION  
STREAMS  
TWO DIMENSIONAL FLOW

**STREAMLINE FLOW**

USE LAMINAR FLOW

**STREAMLINED BODIES**

GS SYMMETRICAL BODIES  
. **STREAMLINED BODIES**  
. . . FAIRINGS  
RT AERODYNAMIC CONFIGURATIONS  
AIRFOILS  
AXISYMMETRIC BODIES  
∞ BODIES  
BODIES OF REVOLUTION  
MISSILE BODIES  
OGIVES  
SLENDER BODIES  
STREAMLINING  
TOWED BODIES

**STREAMLINING**

RT ACOUSTIC STREAMING  
AIR FLOW  
AIRCRAFT DESIGN  
AIRCRAFT STRUCTURES  
AIRFOIL PROFILES  
AIRFOILS  
FAIRINGS  
FLUID DYNAMICS  
FRICTION REDUCTION  
HELICOPTER DESIGN  
HYDROFOILS  
∞ PROFILES  
SKIN FRICTION  
STREAMLINED BODIES

**STREAMS**

GS **STREAMS**  
. GAS STREAMS  
RT AIR FLOW  
ALLUVIUM  
AQUIFERS  
DELAWARE RIVER BASIN (US)  
FLUID FLOW  
GAS FLOW  
HYDROLOGY  
HYDROLOGY MODELS  
INTERNATIONAL HYDROLOGICAL  
DECADE  
LAKE ERIE  
LAKE HURON  
LAKE MICHIGAN

**STREAMS-(CONT.)**

LAKE ONTARIO  
LAKE SUPERIOR  
LIMNOLOGY  
MEANDERS  
RAPIDS  
RESERVOIRS  
RIVERS  
STREAM FUNCTIONS (FLUIDS)  
SURFACE WATER  
SUSQUEHANNA RIVER BASIN  
(MD-NY-PA)  
WADIS

**STREETS**

RT HIGHWAYS  
INTERSECTIONS  
PAVEMENTS  
ROADS  
∞ TUNNELS  
URBAN PLANNING  
URBAN RESEARCH

**STRESS ANALYSIS**

UF STRESS CALCULATIONS  
GS **STRESS ANALYSIS**  
. BOUNDARY ELEMENT METHOD  
. SCHWARTZ METHOD  
. X RAY STRESS ANALYSIS  
RT AIRY FUNCTION  
∞ ANALYZING  
BENDING MOMENTS  
BENDING THEORY  
CASTIGLIANO VARIATIONAL THEOREM  
COMBINED STRESS  
CONSTRUCTION  
CREEP ANALYSIS  
DONNELL EQUATIONS  
ENERGY METHODS  
EULER BUCKLING  
∞ FLIGHT STRESS  
FRINGE MULTIPLICATION  
INELASTIC STRESS  
INFLUENCE COEFFICIENT  
INTERFERENCE FIT  
ISOPARAMETRIC FINITE ELEMENTS  
MECHANICAL ENGINEERING  
MICHELL THEOREM  
MOIRE FRINGES  
MOMENTS OF INERTIA  
NASTRAN  
PHOTOELASTIC ANALYSIS  
PHOTOELASTICITY  
REISSNER THEORY  
S-N DIAGRAMS  
SAINT VENANT PRINCIPLE  
SHALLOW SHELL EQUATIONS  
STRESSES  
STRUCTURAL ANALYSIS  
STRUCTURAL DESIGN  
STRUCTURAL ENGINEERING  
TEMPERATURE INVERSIONS

**STRESS CALCULATIONS**

USE STRESS ANALYSIS

**STRESS MEASUREMENT**

GS MECHANICAL MEASUREMENT  
. **STRESS MEASUREMENT**  
. . . X RAY STRESS MEASUREMENT  
RT DEFORMETERS  
EXTENSOMETERS  
PHOTOELASTIC ANALYSIS  
S-N DIAGRAMS  
STRAIN GAGES  
TENSOMETERS  
VIBRATION MEASUREMENT

**STRESS TENSORS**

GS ALGEBRA  
. TENSORS  
. . . **STRESS TENSORS**  
RT CONTINUUM MECHANICS  
ELASTIC PROPERTIES  
FRACTURE MECHANICS  
PLASTIC PROPERTIES  
STRUCTURAL DESIGN

**STRESS WAVES**

GS ELASTIC WAVES  
. **STRESS WAVES**  
RT ACOUSTIC EMISSION  
SHOCK LAYERS  
SHOCK WAVES  
STRESSES

**STRESS WAVES-(CONT.)**

TEMPERATURE INVERSIONS  
WAVE PROPAGATION  
∞ WAVES

**STRESSED-SKIN STRUCTURES**

RT MONOCOQUE STRUCTURES  
SKIN (STRUCTURAL MEMBER)  
SPHERICAL SHELLS  
∞ STRUCTURES  
THIN WALLED SHELLS

**STRINGERS**

GS STRUCTURAL MEMBERS  
. **STRINGERS**  
RT LONGERONS  
REINFORCEMENT (STRUCTURES)  
STRUCTURAL STABILITY

**STRINGS**

RT ASSEMBLIES  
CORDAGE

**STRIP**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
RT AIRPORTS  
CIRCUITS  
DISPLAY DEVICES  
METAL STRIPS  
RIBBONS  
RUNWAYS

**STROKING TESTS**

GS VIBRATION TESTS  
. DAMPING TESTS  
. . . **STROKING TESTS**  
RT DYNAMIC RESPONSE  
∞ FREQUENCY RESPONSE  
MODAL RESPONSE  
SHOCK SPECTRA  
STRUCTURAL VIBRATION  
∞ TESTS  
TRANSIENT RESPONSE  
WAVE EXCITATION

**STROUHAL NUMBER**

GS RATIOS  
. DIMENSIONLESS NUMBERS  
. . . **STROUHAL NUMBER**  
RT BACKWASH  
BUFFETING  
FLOW CHARACTERISTICS  
FLOW DISTRIBUTION  
FLOW STABILITY  
FROUDE NUMBER  
OSCILLATING FLOW  
SLIPSTREAMS  
TURBULENCE  
UNSTEADY FLOW  
VORTICES  
WAKES

**STRUCTURAL MATERIALS**

USE CONSTRUCTION MATERIALS

**STRUCTURAL RELIABILITY**

GS RELIABILITY  
. **STRUCTURAL RELIABILITY**  
RT AIRCRAFT RELIABILITY  
COMPONENT RELIABILITY  
CUMULATIVE DAMAGE  
QUALITY CONTROL

**STRUCTURAL RIGIDITY**

USE STRUCTURAL STABILITY

**STRUCTURAL STABILITY**

UF STRUCTURAL RIGIDITY  
GS MECHANICAL PROPERTIES  
. DIMENSIONAL STABILITY  
. . . **STRUCTURAL STABILITY**  
. . . SHELL STABILITY  
STABILITY  
. STATIC STABILITY  
. . . DIMENSIONAL STABILITY  
. . . **STRUCTURAL STABILITY**  
. . . SHELL STABILITY  
RT AIRCRAFT STABILITY  
COMBUSTION VIBRATION  
HYBRID STRUCTURES  
LONGERONS  
PLASTIC PROPERTIES

## STRUCTURAL STRAIN

### STRUCTURAL STABILITY-(CONT.)

REINFORCEMENT (STRUCTURES)  
RESONANCE TESTING  
∞ RIGIDITY  
STIFFNESS  
STRINGERS  
WAVE RESISTANCE

### STRUCTURAL STRAIN

GS FATIGUE (MATERIALS)  
. STRUCTURAL STRAIN  
RT AXIAL STRAIN  
BENDING  
BUCKLING  
CRACKING (FRACTURING)  
DEFLECTION  
DEFORMATION  
ELASTIC DEFORMATION  
FAILURE  
MOMENTS OF INERTIA  
PLASTIC DEFORMATION  
PRESTRESSING  
REINFORCEMENT (STRUCTURES)  
RUPTURING  
SHEAR STRAIN  
SHEARING  
STRAIN MEASUREMENT  
STRESS CONCENTRATION  
STRESS-STRAIN DIAGRAMS  
STRESS-STRAIN RELATIONSHIPS  
STRESSES  
SYSTEM FAILURES  
TEMPERATURE INVERSIONS  
TWISTING  
VOLUMETRIC STRAIN  
WARPAGE

### STRUCTURAL WEIGHT

GS WEIGHT (MASS)  
. STRUCTURAL WEIGHT  
RT MASS RATIOS  
NEW MOONS PROJECT  
WEIGHT ANALYSIS  
WEIGHT REDUCTION

### STRUTS

GS STRUCTURAL MEMBERS  
. STRUTS  
RT CHASSIS  
COLUMNS (SUPPORTS)  
FRAMES  
PYLONS  
SUPPORTS  
TRUSSES

### SUBCRITICAL FLOW

GS FLUID FLOW  
. SUBCRITICAL FLOW  
RT CRITICAL FLOW  
FLOW CHARACTERISTICS  
GAS FLOW  
LIQUID FLOW  
MULTIPHASE FLOW  
ORIFICE FLOW  
PIPE FLOW  
PRESSURE GRADIENTS  
SINGLE-PHASE FLOW  
STEADY FLOW  
STEAM FLOW  
SUPERCritical FLOW  
TURBULENT FLOW  
UNIFORM FLOW  
UNSTEADY FLOW

### SUBIC PROJECT

USE SUBMARINE INTEGRATED CONTROL PROJECT

### SUBLIMATION

GS PHASE TRANSFORMATIONS  
. VAPORIZING  
. SUBLIMATION  
RT ABLATION  
BENEFICIATION  
CONDENSING  
CRYSTALLIZATION  
DESORPTION  
DIFFUSION  
EVAPORATION  
GAS-METAL INTERACTIONS  
GAS-SOLID INTERFACES  
PHASE CHANGE MATERIALS  
PURIFICATION  
PYROMETALLURGY  
REFINING

### SUBLIMATION-(CONT.)

∞ SEPARATION  
VAPOR PRESSURE

### SUBMARINE INTEGRATED CONTROL PROJECT

UF SUBIC PROJECT  
GS PROGRAMS  
. PROJECTS  
. SUBMARINE INTEGRATED CONTROL PROJECT  
RT ∞ CONTROL

### SUBMARINES

GS WATER VEHICLES  
. SHIPS  
. SUBMARINES  
. . . BALLISTIC MISSILE SUBMARINES  
. . . GUIDED MISSILE SUBMARINES  
. . . TRIDENT SUBMARINE  
. . . UNDERWATER VEHICLES  
. SUBMARINES  
. . . BALLISTIC MISSILE SUBMARINES  
. . . GUIDED MISSILE SUBMARINES  
. . . TRIDENT SUBMARINE  
RT ANTISHIP MISSILES  
ANTISHIP WARFARE  
ANTISUBMARINE WARFARE  
∞ MILITARY VEHICLES  
NAVY  
NUCLEAR POWERED SHIPS  
SEAFARER PROJECT  
SHIP HULLS  
SUBMERGED BODIES

### SUBMERGED BODIES

GS SUBMERGED BODIES  
. DIVING (UNDERWATER)  
. UNDERWATER RESEARCH LABORATORIES  
RT SUBMARINES  
TORPEDOES  
TOWED BODIES  
UNDERWATER ENGINEERING  
UNDERWATER PHOTOGRAPHY  
UNDERWATER STRUCTURES  
UNDERWATER VEHICLES  
WATER IMMERSION

### SUBMERGING

UF IMMERSION  
RT BATHS  
DIPPING  
QUENCHING (COOLING)  
SINKING  
∞ SOAKING  
WATER IMMERSION  
WEIGHTLESSNESS SIMULATION  
WETTING

### SUBMERSIBLE AIRCRAFT

RT ∞ AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
LIGHT AIRCRAFT  
∞ MILITARY AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT

### SUBROC MISSILE

GS MISSILES  
. BALLISTIC MISSILES  
. . . FIELD ARMY BALLISTIC MISSILES  
. . . SUBROC MISSILE  
. SURFACE TO SURFACE MISSILES  
. FLEET BALLISTIC MISSILES  
. . . SUBROC MISSILE  
. UNDERWATER TO SURFACE MISSILES  
. SUBROC MISSILE  
RT UNDERWATER TRAJECTORIES

### ∞ SUBSONIC AIRCRAFT

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*  
RT ∞ AIRCRAFT  
FLYING PLATFORMS  
GENERAL AVIATION AIRCRAFT  
GETOL AIRCRAFT  
GLIDERS  
GROUND EFFECT MACHINES  
HELICOPTERS  
JET AIRCRAFT  
LIGHT AIRCRAFT  
PARAGLIDERS

### SUBSONIC AIRCRAFT-(CONT.)

PASSENGER AIRCRAFT  
ROTARY WING AIRCRAFT  
SHORT TAKEOFF AIRCRAFT  
SUPERSONIC AIRCRAFT  
TANDEM WING AIRCRAFT  
TERRAIN FOLLOWING AIRCRAFT  
TRAINING AIRCRAFT  
TRANSPORT AIRCRAFT  
TURBOPROP AIRCRAFT  
UTILITY AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
WATER TAKEOFF AND LANDING AIRCRAFT

### SUBSONIC FLOW

GS FLUID FLOW  
. SUBSONIC FLOW  
RT AERODYNAMICS  
COMPRESSIBLE FLOW  
FLOW VELOCITY  
GAS FLOW  
INCOMPRESSIBLE FLOW  
KARMAN VORTEX STREET  
TRANSONIC FLOW

### SUBSONIC FLUTTER

GS VIBRATION  
. STRUCTURAL VIBRATION  
. FLUTTER  
. . . SUBSONIC FLUTTER  
. . . SELF INDUCED VIBRATION  
. . . SUBSONIC FLUTTER  
RT TRANSONIC FLUTTER

### SUBSONIC SPEED

SN (LESS THAN MACH 1)  
GS RATES (PER TIME)  
. SUBSONIC SPEED  
VELOCITY  
. SUBSONIC SPEED  
RT ACOUSTIC VELOCITY  
LOW SPEED  
TRANSONIC SPEED

### SUBSONIC WIND TUNNELS

GS TEST FACILITIES  
. WIND TUNNELS  
. . . LOW SPEED WIND TUNNELS  
. . . SUBSONIC WIND TUNNELS  
RT BLOWDOWN WIND TUNNELS  
HYPERSONIC WIND TUNNELS  
RECTANGULAR WIND TUNNELS  
SUPERSONIC WIND TUNNELS  
TRANSONIC WIND TUNNELS

### SUCTION

RT EVACUATING (VACUUM)  
PRESSURE EFFECTS  
PRESSURE GRADIENTS  
VACUUM  
VACUUM APPARATUS  
VACUUM PUMPS

### SUD AVIATION AIRCRAFT

GS SUD AVIATION AIRCRAFT  
. ALOUETTE HELICOPTERS  
. . . SA-330 HELICOPTER  
. . . SE-3160 HELICOPTER  
. CONCORDE AIRCRAFT  
. SA-321 HELICOPTER  
. SE-210 AIRCRAFT  
. VJ-101 AIRCRAFT  
RT ∞ AIRCRAFT

SUD AVIATION SA-321 HELICOPTER  
USE SA-321 HELICOPTER

SUD AVIATION SA-330 HELICOPTER  
USE SA-330 HELICOPTER

SUD AVIATION SE-210 AIRCRAFT  
USE SE-210 AIRCRAFT

SUD AVIATION SE-3160 HELICOPTER  
USE SE-3160 HELICOPTER

SUD VJ-101 AIRCRAFT  
USE VJ-101 AIRCRAFT

### SUMPS

RT DRAINAGE  
PITS (EXCAVATIONS)  
WASTE DISPOSAL



**SUN SENSORS**

USE SOLAR SENSORS

**SUPER FORTRESS AIRCRAFT**

USE RB-50 AIRCRAFT

**SUPER SABRE AIRCRAFT**

USE F-100 AIRCRAFT

**SUPERALLOYS**

USE HEAT RESISTANT ALLOYS

**SUPERCAVITATING FLOW**

UF SUPERCAVITATION  
GS FLUID FLOW  
... TURBULENT FLOW  
... **SUPERCAVITATING FLOW**  
RT CAVITATION FLOW  
HYDROFOIL OSCILLATIONS

**SUPERCAVITATION**

USE SUPERCAVITATING FLOW

**SUPERCHARGERS**

UF SUPERCHARGING  
TURBOCHARGERS  
GS COMPRESSORS  
... **SUPERCHARGERS**  
RT AIR INTAKES  
BLOWERS  
CENTRIFUGAL COMPRESSORS  
COMPRESSING  
INTERNAL COMBUSTION ENGINES  
TURBOCOMPRESSORS  
TURBOMACHINERY

**SUPERCHARGING**

USE SUPERCHARGERS

**SUPERCONDUCTING QUANTUM INTERFEROMETERS**

USE SQUID (DETECTORS)

**SUPERCritical AIRFOILS**

GS AIRFOILS  
... **SUPERCritical AIRFOILS**  
... **SUPERCritical WINGS**  
RT AIRFOIL PROFILES

**SUPERCritical FLOW**

GS FLUID FLOW  
... **SUPERCritical FLOW**  
RT CRITICAL FLOW  
FLOW CHARACTERISTICS  
GAS FLOW  
LIQUID FLOW  
MULTIPHASE FLOW  
ORIFICE FLOW  
PIPE FLOW  
PRESSURE GRADIENTS  
SINGLE-PHASE FLOW  
STEADY FLOW  
STEAM FLOW  
SUBCRITICAL FLOW  
TURBULENT FLOW  
UNSTEADY FLOW

**SUPERCritical FLUIDS**

RT FLUID MECHANICS  
... FLUIDS  
SOLUBILITY  
SUPERCritical PRESSURES

**SUPERCritical PRESSURES**

GS PRESSURE  
... **SUPERCritical PRESSURES**  
THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
... **SUPERCritical PRESSURES**  
RT CRITICAL PRESSURE  
HIGH PRESSURE  
LIQUID PHASES  
SUPERCritical FLUIDS  
VAPOR PHASES  
VAPOR PRESSURE

**SUPERCritical WINGS**

GS AIRFOILS  
... **SUPERCritical AIRFOILS**  
... **SUPERCritical WINGS**  
... WINGS  
... **SUPERCritical WINGS**  
RT CL-600 CHALLENGER AIRCRAFT  
SPANLOADER AIRCRAFT

**SUPERCritical WINGS-(CONT.)**

WING PROFILES  
... WINGED VEHICLES

**SUPERFLUID FLOW**

USE SUPERFLUIDITY

**SUPERFLUIDITY**

UF SUPERFLUID FLOW  
RT COMPRESSIBLE FLUIDS  
... FLUIDS  
INCOMPRESSIBLE FLUIDS  
KELVIN-HELMHOLTZ INSTABILITY  
LIQUID HELIUM  
LIQUID HELIUM 2  
MANY BODY PROBLEM  
QUANTUM STATISTICS  
TWO FLUID MODELS  
VISCOSITY  
VORTICES

**SUPERSONIC AIRCRAFT**

SN (AIRCRAFT DESIGNED TO FLY AT SPEEDS ABOVE MACH 1 AND BELOW MACH 5)  
UF TRANSONIC AIRCRAFT  
GS **SUPERSONIC AIRCRAFT**  
... A-5 AIRCRAFT  
... B-58 AIRCRAFT  
... B-70 AIRCRAFT  
... BOEING 733 AIRCRAFT  
... D-558 AIRCRAFT  
... F-5 AIRCRAFT  
... F-8 AIRCRAFT  
... F-14 AIRCRAFT  
... F-15 AIRCRAFT  
... F-16 AIRCRAFT  
... F-17 AIRCRAFT  
... F-100 AIRCRAFT  
... F-101 AIRCRAFT  
... F-102 AIRCRAFT  
... F-104 AIRCRAFT  
... F-106 AIRCRAFT  
... F-111 AIRCRAFT  
... FIREBEE 2 TARGET DRONE AIRCRAFT  
... G-95/4 AIRCRAFT  
... JAGUAR AIRCRAFT  
... MIG AIRCRAFT  
... MIRAGE AIRCRAFT  
... MIRAGE 3 AIRCRAFT  
... NORD 1500 AIRCRAFT  
... P-1154 AIRCRAFT  
... PHANTOM AIRCRAFT  
... F-4 AIRCRAFT  
... RF-4 AIRCRAFT  
... SAAB 37 AIRCRAFT  
... SR-71 AIRCRAFT  
... **SUPERSONIC TRANSPORTS**  
... CL-823 AIRCRAFT  
... CONCORDE AIRCRAFT  
... L-2000 AIRCRAFT  
... **SUPERSONIC COMMERCIAL AIR TRANSPORT**  
... BOEING 2707 AIRCRAFT  
... T-38 AIRCRAFT  
... TSR-2 AIRCRAFT  
... VJ-101 AIRCRAFT  
... X-1 AIRCRAFT  
... X-2 AIRCRAFT  
... X-3 AIRCRAFT  
... X-15 AIRCRAFT  
RT ... AIRCRAFT  
ATTACK AIRCRAFT  
FIGHTER AIRCRAFT  
HYPERSONIC AIRCRAFT  
JET AIRCRAFT  
PASSENGER AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT  
... SUBSONIC AIRCRAFT  
... **SUPERSONIC CRUISE AIRCRAFT**  
... RESEARCH  
... **SUPERSONICS**  
... SWEEPBACK WINGS  
... TRANSPORT AIRCRAFT  
... TRAPEZOIDAL TAIL SURFACES  
... VARIABLE CYCLE ENGINES  
... VARIABLE STREAM CONTROL ENGINES

**SUPERSONIC AIRFOILS**

GS AIRFOILS  
... **SUPERSONIC AIRFOILS**  
RT SWEEPBACK  
SWEEPBACK TAIL SURFACES  
SWEEPBACK WINGS

**SUPERSONIC BOUNDARY LAYERS**

GS BOUNDARY LAYERS  
... **SUPERSONIC BOUNDARY LAYERS**  
RT FLUID FLOW  
LAMINAR BOUNDARY LAYER  
SUPERSONICS  
TURBULENT BOUNDARY LAYER  
TWO DIMENSIONAL BOUNDARY LAYER

**SUPERSONIC COMBUSTION**

GS COMBUSTION  
... **SUPERSONIC COMBUSTION**  
RT ENGINES  
FUEL COMBUSTION

**SUPERSONIC COMBUSTION RAMJET ENGINES**

UF SCRAMJET ENGINES  
SCRAMJETS  
GS ENGINES  
... AIR BREATHING ENGINES  
... GAS TURBINE ENGINES  
... JET ENGINES  
... RAMJET ENGINES  
... **SUPERSONIC COMBUSTION RAMJET ENGINES**  
... INTERNAL COMBUSTION ENGINES  
... GAS TURBINE ENGINES  
... JET ENGINES  
... RAMJET ENGINES  
... **SUPERSONIC COMBUSTION RAMJET ENGINES**  
... TURBINE ENGINES  
... GAS TURBINE ENGINES  
... JET ENGINES  
... RAMJET ENGINES  
... **SUPERSONIC COMBUSTION RAMJET ENGINES**  
RT COMBUSTION  
MISSILES  
RAMJET MISSILES  
... SCRAM

**SUPERSONIC COMMERCIAL AIR TRANSPORT**

UF SCAT  
GS COMMERCIAL AIRCRAFT  
... **SUPERSONIC COMMERCIAL AIR TRANSPORT**  
... BOEING 2707 AIRCRAFT  
... TU-144 AIRCRAFT  
... **SUPERSONIC AIRCRAFT**  
... **SUPERSONIC TRANSPORTS**  
... **SUPERSONIC COMMERCIAL AIR TRANSPORT**  
... BOEING 2707 AIRCRAFT

**SUPERSONIC COMPRESSORS**

GS COMPRESSORS  
... **SUPERSONIC COMPRESSORS**  
RT OBLIQUE SHOCK WAVES  
TRANSONIC COMPRESSORS  
TURBOCOMPRESSORS

**SUPERSONIC CRUISE AIRCRAFT RESEARCH**

UF SCAR PROGRAM  
GS PROGRAMS  
... NASA PROGRAMS  
... **SUPERSONIC CRUISE AIRCRAFT RESEARCH**  
RT ... AIRCRAFT  
... **SUPERSONIC AIRCRAFT**  
... **SUPERSONIC TRANSPORTS**

**SUPERSONIC DIFFUSERS**

RT AIR INTAKES  
... DIFFUSERS  
EXHAUST DIFFUSERS  
FLOW STABILITY  
VANELESS DIFFUSERS

**SUPERSONIC DRAG**

GS AERODYNAMIC CHARACTERISTICS  
... AERODYNAMIC DRAG  
... **SUPERSONIC DRAG**  
... AERODYNAMIC FORCES  
... AERODYNAMIC DRAG  
... **SUPERSONIC DRAG**  
... DYNAMIC CHARACTERISTICS  
... DRAG  
... FRICTION DRAG  
... AERODYNAMIC DRAG  
... **SUPERSONIC DRAG**  
... PRESSURE DRAG  
... **SUPERSONIC DRAG**  
... FRICTION  
... FLOW RESISTANCE

## SUPERSONIC FLIGHT

### SUPERSONIC DRAG-(CONT.)

- ... FRICTION DRAG
- ... AERODYNAMIC DRAG
- ... **SUPERSONIC DRAG**
- ... SKIN FRICTION
- ... FRICTION DRAG
- ... AERODYNAMIC DRAG
- ... **SUPERSONIC DRAG**
- RT INTERFERENCE DRAG
- WAVE DRAG

### SUPERSONIC FLIGHT

- RT CAUSTIC LINES
- ∞ FLIGHT
- HYPERSONIC FLIGHT
- JET LAG
- MACH CONES
- MISSILES
- ROCKET FLIGHT
- SONIC BOOMS
- SUPERSONICS
- TRANSONIC FLIGHT

### SUPERSONIC FLOW

- GS FLUID FLOW
- ... **SUPERSONIC FLOW**
- RT AERODYNAMICS
- COMPRESSIBILITY EFFECTS
- COMPRESSIBLE FLOW
- FLOW VELOCITY
- GAS FLOW
- HYPERSONIC FLOW
- HYPERVELOCITY FLOW
- MACH CONES
- PRANDTL-MEYER EXPANSION
- SECONDARY INJECTION
- SHOCK WAVES
- TRANSONIC FLOW
- WEDGE FLOW
- WIND TUNNELS

### SUPERSONIC FLOW INLETS

- USE SUPERSONIC INLETS

### SUPERSONIC FLUTTER

- GS VIBRATION
- ... STRUCTURAL VIBRATION
- ... FLUTTER
- ... **SUPERSONIC FLUTTER**
- ... SELF INDUCED VIBRATION
- ... **SUPERSONIC FLUTTER**
- RT MISSILE VIBRATION
- TRANSONIC FLUTTER

### SUPERSONIC HEAT TRANSFER

- GS TRANSMISSION
- ... HEAT TRANSMISSION
- ... HEAT TRANSFER
- ... AERODYNAMIC HEAT TRANSFER
- ... **SUPERSONIC HEAT TRANSFER**
- RT HYPERSONIC HEAT TRANSFER
- SUPERSONICS

### SUPERSONIC INLETS

- UF SUPERSONIC FLOW INLETS
- TRANSONIC INLETS
- GS INTAKE SYSTEMS
- ... AIR INTAKES
- ... **SUPERSONIC INLETS**
- RT BYPASS RATIO
- HYPERSONIC INLETS
- INLET AIRFRAME CONFIGURATIONS
- INLET FLOW
- INTERNAL COMPRESSION INLETS
- NOSE INLETS
- SIDE INLETS

### SUPERSONIC JET FLOW

- GS FLUID FLOW
- ... JET FLOW
- ... **SUPERSONIC JET FLOW**
- RT GAS FLOW
- NOZZLE FLOW

### SUPERSONIC LOW ALTITUDE MISSILE

- UF SLAM
- GS MISSILES
- ... RAMJET MISSILES
- ... **SUPERSONIC LOW ALTITUDE MISSILE**
- ... SURFACE TO SURFACE MISSILES
- ... **SUPERSONIC LOW ALTITUDE MISSILE**
- RT NUCLEAR RAMJET ENGINES
- PLUTO REACTORS

### SUPERSONIC LOW ALTITUDE MISSILE-(CONT.)

#### RAMJET ENGINES

### SUPERSONIC NOZZLES

- RT COAXIAL NOZZLES
- CONICAL NOZZLES
- CONVERGENT-DIVERGENT NOZZLES
- HYPERSONIC NOZZLES
- ∞ NOZZLES
- ROCKET NOZZLES
- SONIC NOZZLES
- TRANSONIC NOZZLES
- VARIABLE STREAM CONTROL ENGINES
- WIND TUNNEL NOZZLES

### SUPERSONIC SPEED

- SN (BETWEEN MACH 1 AND 4.9)
- GS RATES (PER TIME)
- ... **SUPERSONIC SPEED**
- VELOCITY
- ... **SUPERSONIC SPEED**
- RT ACOUSTIC VELOCITY
- HIGH SPEED
- HYPERSONIC SPEED
- HYPERSONICS
- SUPERSONICS
- TRANSONIC SPEED

### SUPERSONIC TEST APPARATUS

- RT HYPERSONIC TEST APPARATUS
- SUPERSONICS
- ∞ TEST EQUIPMENT
- WIND TUNNEL APPARATUS

### SUPERSONIC TRANSPORTS

- GS SUPERSONIC AIRCRAFT
- ... **SUPERSONIC TRANSPORTS**
- ... CL-823 AIRCRAFT
- ... CONCORDE AIRCRAFT
- ... L-2000 AIRCRAFT
- ... SUPERSONIC COMMERCIAL AIR TRANSPORT
- ... BOEING 2707 AIRCRAFT
- RT CARGO AIRCRAFT
- COMMERCIAL AIRCRAFT
- PASSENGER AIRCRAFT
- SUPERSONIC CRUISE AIRCRAFT
- RESEARCH

### SUPERSONIC TURBINES

- UF TRANSONIC TURBINES
- GS TURBOMACHINERY
- ... TURBINES
- ... **SUPERSONIC TURBINES**
- RT GAS TURBINE ENGINES
- GAS TURBINES

### SUPERSONIC WAKES

- GS WAKES
- ... **SUPERSONIC WAKES**
- RT AIRCRAFT WAKES
- HYPERSONIC WAKES

### SUPERSONIC WIND TUNNELS

- GS TEST FACILITIES
- ... WIND TUNNELS
- ... **SUPERSONIC WIND TUNNELS**
- RT BLOWDOWN WIND TUNNELS
- HYPERSONIC WIND TUNNELS
- HYPERVELOCITY WIND TUNNELS
- LOW DENSITY WIND TUNNELS
- SHOCK TUNNELS
- SLOTTED WIND TUNNELS
- SUBSONIC WIND TUNNELS
- SUPERHARMONICS
- TRANSONIC WIND TUNNELS

### SUPERSONICS

- GS FLUID MECHANICS
- ... FLUID DYNAMICS
- ... GAS DYNAMICS
- ... AERODYNAMICS
- ... **SUPERSONICS**
- RT AEROTHERMODYNAMICS
- HYPERSONICS
- MACH CONES
- SUPERHARMONICS
- SUPERSONIC AIRCRAFT
- SUPERSONIC BOUNDARY LAYERS
- SUPERSONIC FLIGHT
- SUPERSONIC HEAT TRANSFER
- SUPERSONIC SPEED
- SUPERSONIC TEST APPARATUS

### SUPPLYING

- RT COMMERCE
- CONSUMPTION
- DEMAND (ECONOMICS)
- FILLING
- INJECTION
- INPUT
- MARKETING
- OUTPUT

### SUPPORT SYSTEMS

- GS **SUPPORT SYSTEMS**
- ... GROUND OPERATIONAL SUPPORT SYSTEM
- ... GROUND SUPPORT SYSTEMS
- ... LIFE SUPPORT SYSTEMS
- ... BIOPAKS
- ... CLOSED ECOLOGICAL SYSTEMS
- ... EMERGENCY LIFE SUSTAINING SYSTEMS
- ... AEPS
- ... PORTABLE LIFE SUPPORT SYSTEMS
- ... AEPS
- ... IMLSS
- RT SELF SEALING
- SERVICES
- ∞ SYSTEMS

### SUPPRESSION

- USE RETARDING

### SURFACE COOLING

- GS COOLING
- ... **SURFACE COOLING**
- RT CONVECTIVE HEAT TRANSFER
- EVAPORATIVE COOLING
- FILM COOLING
- RADIANT COOLING
- RADIATIVE HEAT TRANSFER
- ∞ SURFACES
- SWEAT COOLING
- TEMPERATURE

### SURFACE EFFECT SHIPS

- UF SES
- GS SURFACE VEHICLES
- ... **SURFACE EFFECT SHIPS**
- WATER VEHICLES
- ... SHIPS
- ... **SURFACE EFFECT SHIPS**
- RT CAPTURED AIR BUBBLE VEHICLES
- ∞ EFFECTS
- RESEARCH VEHICLES
- ∞ SURFACES
- SWATH (SHIP)
- ∞ VEHICLES

### ∞ SURFACE GEOMETRY

- SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)
- RT CONCAVITY
- CONVEXITY
- COSSERAT SURFACES
- FLAT SURFACES
- FLATNESS
- GEOMETRY
- LAMBERT SURFACE
- LOFTING
- PLANFORMS
- SHAPES
- SURFACE DISTORTION
- SURFACE LAYERS
- SURFACE PROPERTIES
- SURFACE REACTIONS
- SURFACE ROUGHNESS
- SURFACE STABILITY
- ∞ SURFACES

### SURFACE INTERACTIONS

- USE SURFACE REACTIONS

### SURFACE LAYERS

- GS **SURFACE LAYERS**
- ... MONOMOLECULAR FILMS
- RT ATMOSPHERIC STRATIFICATION
- BARRIER LAYERS
- BOUNDARY LAYERS
- CRYSTAL SURFACES
- ∞ LAYERS
- LUNAR SURFACE
- OXIDE FILMS
- SOLAR GRANULATION
- ∞ SURFACE GEOMETRY
- SURFACE TREATMENT

**SURFACE LAYERS-(CONT.)**

- ∞ SURFACES
- THERMOCLINES
- ∞ TRANSITION LAYERS

**SURFACE NAVIGATION**

- UF MARINE NAVIGATION
- GS NAVIGATION
- RT **SURFACE NAVIGATION**
- CELESTIAL NAVIGATION
- DEAD RECKONING
- DECCA NAVIGATION
- DIGITAL NAVIGATION
- HYPERBOLIC NAVIGATION
- INERTIAL NAVIGATION
- LORAN NAVIGATION SYSTEM
- LORAN
- NAUTICAL CHARTS
- NAVIGATION AIDS
- RADAR NAVIGATION
- RADIO NAVIGATION
- SHIPS
- ∞ SURFACES

**SURFACE PRESSURE**

- USE PRESSURE

**SURFACE PROPERTIES**

- UF BARDEEN APPROXIMATION
- GS **SURFACE PROPERTIES**
- ADHESION
- ADSORPTIVITY
- COEFFICIENT OF FRICTION
- INTERFACIAL TENSION
- SPECTRAL REFLECTANCE
- SURFACE CRACKS
- SURFACE DEFECTS
- SURFACE ENERGY
- SURFACE ROUGHNESS
- SURFACE STABILITY
- SURFACE TEMPERATURE
- SKIN TEMPERATURE
- (NON-BIOLOGICAL)
- WALL TEMPERATURE
- RT ABSORPTANCE
- ALBEDO
- BIDIRECTIONAL REFLECTANCE
- COARSENESS
- COATING
- COATINGS
- COLOR
- CONTACT POTENTIALS
- CONTACT RESISTANCE
- CORROSION
- COSSERAT SURFACES
- DIFFUSION
- EFFERVESCENCE
- EMISSIVITY
- EVANESCENCE
- FINISHES
- FLAT SURFACES
- FOAMING
- FRICTION
- HARDNESS
- HOT CORROSION
- INTERFACES
- JUPITER RED SPOT
- LUNAR ALBEDO
- LUNAR SURFACE
- LUNAR TOPOGRAPHY
- MECHANICAL PROPERTIES
- METAL SURFACES
- OPTICAL PROPERTIES
- PERMEABILITY
- ∞ PHYSICAL PROPERTIES
- PLANAR STRUCTURES
- PLANETARY SURFACES
- PROFILOMETERS
- ∞ PROPERTIES
- REFLECTANCE
- ROUGHNESS
- SELENOGRAPHY
- SOLID SURFACES
- SOLID-SOLID INTERFACES
- SORPTION
- ∞ SURFACE GEOMETRY
- SURFACE TREATMENT
- ∞ SURFACES
- TEXTURES
- VISCOSITY
- VOID RATIO
- WETTABILITY

**SURFACE REACTIONS**

- UF SURFACE INTERACTIONS

**SURFACE REACTIONS-(CONT.)**

- RT CHEMICAL REACTIONS
- EROSION
- FLUID-SOLID INTERACTIONS
- GAS-LIQUID INTERACTIONS
- INTERFACES
- METAL SURFACES
- METAL-WATER REACTIONS
- SPACECRAFT GLOW
- ∞ SURFACE GEOMETRY
- ∞ SURFACES
- SURFACTANTS
- VAPORIZING

**SURFACE ROUGHNESS**

- GS ROUGHNESS
- **SURFACE ROUGHNESS**
- SURFACE PROPERTIES
- **SURFACE ROUGHNESS**
- RT COARSENESS
- FRICTION
- LUNAR TOPOGRAPHY
- MACHINING
- MECHANICAL PROPERTIES
- PROFILOMETERS
- RUNWAY CONDITIONS
- ∞ SURFACE GEOMETRY
- ∞ SURFACES
- TOPOGRAPHY

**SURFACE ROUGHNESS EFFECTS**

- RT ∞ EFFECTS
- FRICTION DRAG
- REFLECTANCE
- SEPARATED FLOW
- SPECKLE PATTERNS
- ∞ SURFACES

**SURFACE TEMPERATURE**

- GS SURFACE PROPERTIES
- **SURFACE TEMPERATURE**
- SKIN TEMPERATURE
- (NON-BIOLOGICAL)
- WALL TEMPERATURE
- TEMPERATURE
- **SURFACE TEMPERATURE**
- SKIN TEMPERATURE
- (NON-BIOLOGICAL)
- WALL TEMPERATURE
- RT COARSENESS
- GEOTHERMAL ANOMALIES
- OCEAN TEMPERATURE
- SEA SURFACE TEMPERATURE
- ∞ SURFACES
- THERMOCLINES
- WATER TEMPERATURE

**SURFACE TO AIR MISSILES**

- UF GROUND-TO-AIR MISSILES
- GS MISSILES
- **SURFACE TO AIR MISSILES**
- BLUE GOOSE MISSILE
- BOMARC MISSILES
- BOMARC A MISSILE
- BOMARC B MISSILE
- CHAPARRAL MISSILE
- HAWK MISSILE
- MAULER MISSILE
- NIKE MISSILES
- NIKE-AJAX MISSILE
- NIKE-HERCULES MISSILE
- NIKE-ZEUS MISSILE
- PATRIOT MISSILE
- REDEYE MISSILE
- SPRINT MISSILE
- TALOS MISSILE
- TARTAR MISSILE
- TERRIER MISSILE
- RT AIR TO AIR MISSILES
- AIR TO SURFACE MISSILES
- ANTI-AIRCRAFT MISSILES
- ANTIMISSILE MISSILES
- NIKE X SYSTEMS
- RAMJET MISSILES
- ∞ ROCKETS
- SENTINEL SYSTEM
- SPACE WEAPONS
- SPARTAN MISSILE
- ∞ SURFACES

**SURFACE TO SURFACE MISSILES**

- GS MISSILES
- **SURFACE TO SURFACE MISSILES**
- ANTITANK MISSILES
- SHILLELAGH MISSILES

**SURFACE TO SURFACE MISSILES-(CONT.)**

- TOW MISSILES
- CORPORAL MISSILE
- CRUISE MISSILES
- NAVAHO MISSILE
- TOMAHAWK MISSILES
- FLEET BALLISTIC MISSILES
- POLARIS A1 MISSILE
- POLARIS A2 MISSILE
- POLARIS A3 MISSILE
- POSEIDON MISSILES
- SUBROC MISSILE
- INTERCONTINENTAL BALLISTIC MISSILES
- ATLAS ICBM
- ATLAS D ICBM
- ATLAS E ICBM
- ATLAS F ICBM
- MINUTEMAN ICBM
- MX MISSILE
- TITAN ICBM
- TITAN 1 ICBM
- TITAN 2 ICBM
- INTERMEDIATE RANGE BALLISTIC MISSILES
- BLUE STREAK MISSILE
- JUPITER MISSILE
- POLARIS MISSILES
- POLARIS A1 MISSILE
- POLARIS A2 MISSILE
- POLARIS A3 MISSILE
- LANCE MISSILE
- MACE MISSILES
- PERSHING MISSILE
- REGULUS MISSILE
- SERGEANT MISSILES
- SHORT RANGE BALLISTIC MISSILES
- SUPERSONIC LOW ALTITUDE MISSILE
- V-1 MISSILE
- RT AIR TO SURFACE MISSILES
- BALLISTIC MISSILES
- HARPOON MISSILE
- RAMJET MISSILES
- ∞ ROCKETS
- ∞ SURFACES

**SURFACE TO SURFACE ROCKETS**

- GS ROCKET VEHICLES
- **SURFACE TO SURFACE ROCKETS**
- HONEST JOHN ROCKET VEHICLE
- LITTLE JOHN ROCKET VEHICLE
- RT ∞ ROCKETS
- ∞ SURFACES

**SURFACE WAVES**

- SN (EXCLUDES SURFACE RADIO WAVES)
- GS **SURFACE WAVES**
- CAPILLARY WAVES
- GRAVITY WAVES
- BAROCLINIC WAVES
- RIPPLES
- ELECTROMAGNETIC SURFACE WAVES
- SOMMERFELD WAVES
- RT BOW WAVES
- CNOIDAL WAVES
- CRUSTAL FRACTURES
- ELASTIC WAVES
- INTERNAL WAVES
- LEE WAVES
- LIQUID SURFACES
- LOVE WAVES
- MICROSONICS
- P WAVES
- S WAVES
- SEA ROUGHNESS
- SEISMIC WAVES
- SPLASHING
- ∞ SURFACES
- TROPOSPHERIC WAVES
- TSUNAMI WAVES
- WATER CURRENTS
- WATER WAVES
- ∞ WAVES

**∞ SURFACES**

- SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)
- UF CURVED SURFACES
- LIFTING SURFACES
- RT AIR TO SURFACE MISSILES
- AIRFIELD SURFACE MOVEMENTS
- AIRPORT SURFACE DETECTION EQUIPMENT

## SURGES

### SURFACES-(CONT.)

APOLLO LUNAR SURFACE EXPERIMENTS  
PACKAGE  
AREA  
COLD SURFACES  
CONTROL SURFACES  
COSSERAT SURFACES  
CRYSTAL SURFACES  
EARTH SURFACE  
EASEP  
ELECTROMAGNETIC SURFACE WAVES  
ELEVATORS (CONTROL SURFACES)  
EXTERNAL SURFACE CURRENTS  
FERMI SURFACES  
FLAPS (CONTROL SURFACES)  
FLAT SURFACES  
HORIZONTAL TAIL SURFACES  
HOT SURFACES  
INTERFACES  
INTERFACIAL TENSION  
LAMBERT SURFACE  
LIQUID SURFACES  
LSSM  
LUNAR SURFACE  
LUNAR SURFACE VEHICLES  
MANNED LUNAR SURFACE VEHICLES  
MARS SURFACE  
MARS SURFACE SAMPLES  
MENISCI  
METAL SURFACES  
MINIMAL SURFACES  
OCEAN SURFACE  
PLANETARY SURFACES  
SATELLITE SURFACES  
SIZING (SURFACE TREATMENT)  
SOLID SURFACES  
SURFACE COOLING  
SURFACE CRACKS  
SURFACE DEFECTS  
SURFACE DIFFUSION  
SURFACE DISTORTION  
SURFACE EFFECT SHIPS  
SURFACE ENERGY  
SURFACE FINISHING  
∞ SURFACE GEOMETRY  
SURFACE IONIZATION  
SURFACE LAYERS  
SURFACE NAVIGATION  
SURFACE PROPERTIES  
SURFACE REACTIONS  
SURFACE ROUGHNESS  
SURFACE ROUGHNESS EFFECTS  
SURFACE STABILITY  
SURFACE TEMPERATURE  
SURFACE TO AIR MISSILES  
SURFACE TO SURFACE MISSILES  
SURFACE TO SURFACE ROCKETS  
SURFACE VEHICLES  
SURFACE WATER  
SURFACE WAVES  
SWEEPBACK TAIL SURFACES  
T TAIL SURFACES  
TABS (CONTROL SURFACES)  
TAIL SURFACES  
TOWNSEND AVALANCHE  
TRAPEZOIDAL TAIL SURFACES  
TWO DIMENSIONAL BODIES  
UNDER SURFACE BLOWING  
UNDERWATER TO SURFACE MISSILES  
UPPER SURFACE BLOWING  
UPPER SURFACE BLOWN FLAPS  
VENUS SURFACE  
WEAR

### SURGES

UF TRANSIENTS (SURGES)  
RT CIRCUIT PROTECTION  
FLUID FLOW  
OVERVOLTAGE  
STORM SURGES  
VARIATIONS  
WATER HAMMER  
∞ WAVES

### SUSPENDING (HANGING)

GS SUSPENDING (HANGING)  
MAGNETIC SUSPENSION  
RT GYROSCOPE FLUIDS  
MOUNTING  
SUSPENSION SYSTEMS (VEHICLES)  
∞ SUSPENSIONS

### SUSPENDING (MIXING)

GS MIXING  
SUSPENDING (MIXING)

### SUSPENDING (MIXING)-(CONT.)

RT AERATION  
AGITATION  
COLLOIDING  
DISPERSING  
DISPERSIONS  
ENTRAINMENT  
FERROFLUIDS  
HOMOGENIZING  
SHAKING  
STIRRING  
∞ SUSPENSIONS

### SUSPENSION SYSTEMS (VEHICLES)

RT BEARINGS  
FLOTATION  
LEVITATION  
MAGNETIC LEVITATION VEHICLES  
RIDING QUALITY  
SHOCK ABSORBERS  
SPRINGS (ELASTIC)  
STEERING  
SUSPENDING (HANGING)  
∞ SUSPENSIONS  
∞ SYSTEMS  
TOROIDAL WHEELS  
UNDERCARRIAGES  
VEHICLE WHEELS  
VEHICULAR TRACKS  
VIBRATION ISOLATORS

### ∞ SUSPENSIONS

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
RT BROWNIAN MOVEMENTS  
DISPERSIONS  
FERROFLUIDS  
SOLID SUSPENSIONS  
SUSPENDING (HANGING)  
SUSPENDING (MIXING)  
SUSPENSION SYSTEMS (VEHICLES)

### SUSTAINER ROCKET ENGINES

GS ENGINES  
ROCKET ENGINES  
SUSTAINER ROCKET ENGINES  
RT BOOSTER ROCKET ENGINES  
DUCTED ROCKET ENGINES  
ELECTRIC ROCKET ENGINES  
ELECTROSTATIC ENGINES  
ELECTROTHERMAL ENGINES  
HYBRID PROPELLANT ROCKET ENGINES  
INTERNAL COMBUSTION ENGINES  
ION ENGINES  
LAUNCH VEHICLES  
LIQUID AIR CYCLE ENGINES  
LIQUID PROPELLANT ROCKET ENGINES  
NUCLEAR ENGINE FOR ROCKET  
VEHICLES  
NUCLEAR ROCKET ENGINES  
RESTARTABLE ROCKET ENGINES  
SOLID PROPELLANT ROCKET ENGINES  
STAGE SEPARATION  
∞ SUSTAINING  
TURBOROCKET ENGINES  
TX-354 ENGINE

### ∞ SUSTAINING

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)*  
RT LIFE SUPPORT SYSTEMS  
SUPPORTS  
SUSTAINER ROCKET ENGINES

### SWEAT COOLING

UF TRANSPIRATION COOLING  
GS COOLING  
EVAPORATIVE COOLING  
SWEAT COOLING  
RT FILM COOLING  
LIQUID COOLING  
SURFACE COOLING

### SWEEP ANGLE

GS GEOMETRY  
EUCLIDEAN GEOMETRY  
ANGLES (GEOMETRY)  
SWEEP ANGLE  
SWEEPBACK  
LEADING EDGE SWEEP  
RT AERODYNAMIC STALLING  
ANGLE OF ATTACK  
BOUNDARY LAYER SEPARATION

### SWEEP ANGLE-(CONT.)

MACH NUMBER

### SWEEP EFFECT

RT ∞ EFFECTS  
FORCE DISTRIBUTION  
LIFT  
∞ LOADING  
WING LOADING

### SWEEPBACK

UF SWEEPBACK ANGLES  
GS GEOMETRY  
EUCLIDEAN GEOMETRY  
ANGLES (GEOMETRY)  
SWEEP ANGLE  
SWEEPBACK  
LEADING EDGE SWEEP  
RT SUPERSONIC AIRFOILS

### SWEEPBACK ANGLES

USE SWEEPBACK

### SWELLING

RT DISTORTION  
EXPANSION  
GROWTH  
INCREASING  
INFLATING  
SPREADING

### SWEPT FORWARD WINGS

GS AIRFOILS  
WINGS  
SWEPT WINGS  
SWEPT FORWARD WINGS  
TRAPEZOIDAL WINGS  
PLANFORMS  
WING PLANFORMS  
SWEPT FORWARD WINGS  
TRAPEZOIDAL WINGS  
RT SWEPTBACK WINGS  
VARIABLE SWEEP WINGS  
X-29 AIRCRAFT

### SWEPT WINGS

UF CRANKED WINGS  
DIAMOND WINGS  
TAPERED WINGS  
GS AIRFOILS  
WINGS  
SWEPT WINGS  
SWEPT FORWARD WINGS  
TRAPEZOIDAL WINGS  
SWEPTBACK WINGS  
ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
RT A-300 AIRCRAFT  
A-310 AIRCRAFT  
A-320 AIRCRAFT  
FIXED WINGS  
SPANLOADER AIRCRAFT  
UNSWEPT WINGS  
WING PLANFORMS

### SWEEPBACK TAIL SURFACES

GS PLANFORMS  
SWEPTBACK TAIL SURFACES  
TAIL SURFACES  
SWEPTBACK TAIL SURFACES  
RT CONTROL SURFACES  
HYPERSONIC AIRCRAFT  
RUDDERS  
STABILIZERS (FLUID DYNAMICS)  
SUPERSONIC AIRFOILS  
∞ SURFACES  
T TAIL SURFACES  
TRAPEZOIDAL TAIL SURFACES

### SWEEPBACK WINGS

GS AIRFOILS  
WINGS  
SWEPT WINGS  
SWEPTBACK WINGS  
ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
PLANFORMS  
WING PLANFORMS  
SWEPTBACK WINGS  
ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
RT HYPERSONIC AIRCRAFT

**SWEPTBACK WINGS-(CONT.)**

SUPERSONIC AIRCRAFT  
SUPERSONIC AIRFOILS  
SWEPT FORWARD WINGS  
VARIABLE SWEEP WINGS

**SWING TAIL ASSEMBLIES**

GS ASSEMBLIES  
TAIL ASSEMBLIES  
SWING TAIL ASSEMBLIES  
RT AFTERBODIES  
AIRCRAFT PARTS  
AIRCRAFT STRUCTURES

**SWING WINGS**

GS AIRFOILS  
WINGS  
SWING WINGS  
RT AIRCRAFT PARTS  
AIRCRAFT STRUCTURES  
WING PLANFORMS  
WING PROFILES

**SWIRLING**

RT AGITATION  
CENTRIFUGING  
DISPERSING  
FOAMING  
MIXING  
SEPARATION  
SHAKING  
STIRRING

**SWIRLING WAKES**

USE TURBULENT WAKES

**SYMMETRICAL BODIES**

GS SYMMETRICAL BODIES  
AXISYMMETRIC BODIES  
BODIES OF REVOLUTION  
CONICAL BODIES  
SLENDER CONES  
CYLINDRICAL BODIES  
ROTATING CYLINDERS  
PARABOLIC BODIES  
SPHERES  
CELESTIAL SPHERE  
CONCENTRIC SPHERES  
FALLING SPHERES  
POINCARÉ SPHERES  
ROTATING SPHERES  
TORUSES  
ELLIPSOIDS  
LENTICULAR BODIES  
STREAMLINED BODIES  
FAIRINGS  
RT AXES OF ROTATION  
BLUNT BODIES  
BODIES  
CONES  
FINNED BODIES  
FLARED BODIES  
GEOIDS  
OGIVES  
SLENDER BODIES  
SPINNING UNGUIDED ROCKET  
TRAJECTORY

**SYNOPTIC MEASUREMENT**

RT MEASUREMENT  
NEPHANALYSIS

**SYNTHETIC FUELS**

GS FUELS  
CHEMICAL FUELS  
SYNTHETIC FUELS  
GASOLIN (FUEL)  
SYNTHANE  
RT CHEMICAL REACTIONS  
CLEAN FUELS  
FISCHER-TROPSCH PROCESS  
HYDROCARBON FUELS  
LIQUID FUELS  
SYNTHESIS  
SYNTHESIS (CHEMISTRY)

**T****T TAIL SURFACES**

GS TAIL SURFACES  
T TAIL SURFACES

**T TAIL SURFACES-(CONT.)**

RT CONTROL SURFACES  
STABILIZERS (FLUID DYNAMICS)  
SURFACES  
SWEPTBACK TAIL SURFACES  
TAIL ASSEMBLIES

**T-2 AIRCRAFT**

UF BUCKEYE AIRCRAFT  
T2J AIRCRAFT  
YT-2 AIRCRAFT  
GS ATTACK AIRCRAFT  
T-2 AIRCRAFT  
JET AIRCRAFT  
T-2 AIRCRAFT  
MONOPLANES  
T-2 AIRCRAFT  
NORTH AMERICAN AIRCRAFT  
T-2 AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
T-2 AIRCRAFT  
TRAINING AIRCRAFT  
T-2 AIRCRAFT  
RT AIRCRAFT

**T-28 AIRCRAFT**

UF TROJAN AIRCRAFT  
GS MONOPLANES  
T-28 AIRCRAFT  
NORTH AMERICAN AIRCRAFT  
T-28 AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
T-28 AIRCRAFT  
TRAINING AIRCRAFT  
T-28 AIRCRAFT  
RT AIRCRAFT

**T-33 AIRCRAFT**

UF F-80 AIRCRAFT  
SHOOTING STAR AIRCRAFT  
GS JET AIRCRAFT  
T-33 AIRCRAFT  
LOCKHEED AIRCRAFT  
T-33 AIRCRAFT  
MONOPLANES  
T-33 AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
T-33 AIRCRAFT  
TRAINING AIRCRAFT  
T-33 AIRCRAFT  
RT AIRCRAFT

**T-34 ENGINE**

GS AIRCRAFT ENGINES  
T-34 ENGINE  
ENGINES  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-34 ENGINE  
TURBINE ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-34 ENGINE  
RT C-133 AIRCRAFT

**T-37 AIRCRAFT**

GS CESSNA AIRCRAFT  
T-37 AIRCRAFT  
JET AIRCRAFT  
T-37 AIRCRAFT  
MONOPLANES  
T-37 AIRCRAFT  
TRAINING AIRCRAFT  
T-37 AIRCRAFT  
RT A-37 AIRCRAFT  
AIRCRAFT

**T-38 AIRCRAFT**

UF TALON AIRCRAFT  
GS JET AIRCRAFT  
T-38 AIRCRAFT  
MONOPLANES  
T-38 AIRCRAFT  
NORTHROP AIRCRAFT  
T-38 AIRCRAFT  
SUPERSONIC AIRCRAFT  
T-38 AIRCRAFT  
TRAINING AIRCRAFT  
T-38 AIRCRAFT  
RT AIRCRAFT

**T-38 ENGINE**

GS AIRCRAFT ENGINES  
T-38 ENGINE  
ENGINES  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-38 ENGINE  
TURBINE ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-38 ENGINE

**T-39 AIRCRAFT**

UF SABRELINER AIRCRAFT  
T3J AIRCRAFT  
GS JET AIRCRAFT  
T-39 AIRCRAFT  
MONOPLANES  
T-39 AIRCRAFT  
NORTH AMERICAN AIRCRAFT  
T-39 AIRCRAFT  
PASSENGER AIRCRAFT  
T-39 AIRCRAFT  
TRAINING AIRCRAFT  
T-39 AIRCRAFT  
UTILITY AIRCRAFT  
T-39 AIRCRAFT  
RT AIRCRAFT  
CARGO AIRCRAFT

**T-53 ENGINE**

GS ENGINES  
AIR BREATHING ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-53 ENGINE  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-53 ENGINE  
TURBINE ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-53 ENGINE  
RT HELICOPTER ENGINES

**T-55 ENGINE**

GS AIRCRAFT ENGINES  
T-55 ENGINE  
RT HELICOPTER ENGINES

**T-56 ENGINE**

GS ENGINES  
AIR BREATHING ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-56 ENGINE  
TURBINE ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-56 ENGINE  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOPROP ENGINES  
T-56 ENGINE  
RT C-130 AIRCRAFT

**T-58 ENGINE**

GS ENGINES  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
T-58 ENGINE  
TURBINE ENGINES  
GAS TURBINE ENGINES  
T-58 ENGINE  
RT AIRCRAFT ENGINES  
HELICOPTER ENGINES  
VERTICAL TAKEOFF AIRCRAFT

## T-58-GE-8B ENGINE

### T-58-GE-8B ENGINE

GS ENGINES  
 . AIR BREATHING ENGINES  
 . GAS TURBINE ENGINES  
 . . . T-58-GE-8B ENGINE  
 . INTERNAL COMBUSTION ENGINES  
 . GAS TURBINE ENGINES  
 . . . T-58-GE-8B ENGINE  
 . TURBINE ENGINES  
 . GAS TURBINE ENGINES  
 . . . T-58-GE-8B ENGINE  
 RT AIRCRAFT ENGINES  
 HELICOPTER ENGINES  
 VERTICAL TAKEOFF AIRCRAFT

### T-63 ENGINE

GS AIRCRAFT ENGINES  
 . T-63 ENGINE  
 ENGINES  
 . INTERNAL COMBUSTION ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . T-63 ENGINE  
 . TURBINE ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . T-63 ENGINE  
 RT HELICOPTER ENGINES

### T-64 ENGINE

GS ENGINES  
 . AIR BREATHING ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . TURBOJET ENGINES  
 . . . TURBOPROP ENGINES  
 . . . T-64 ENGINE  
 . INTERNAL COMBUSTION ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . TURBOJET ENGINES  
 . . . TURBOPROP ENGINES  
 . . . T-64 ENGINE  
 . TURBINE ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . TURBOJET ENGINES  
 . . . TURBOPROP ENGINES  
 . . . T-64 ENGINE  
 RT HELICOPTER ENGINES

### T-74 ENGINE

GS ENGINES  
 . AIR BREATHING ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . TURBOJET ENGINES  
 . . . TURBOPROP ENGINES  
 . . . T-74 ENGINE  
 . INTERNAL COMBUSTION ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . TURBOJET ENGINES  
 . . . TURBOPROP ENGINES  
 . . . T-74 ENGINE  
 . TURBINE ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . TURBOJET ENGINES  
 . . . TURBOPROP ENGINES  
 . . . T-74 ENGINE  
 RT HELICOPTER ENGINES

### T-76 ENGINE

GS AIRCRAFT ENGINES  
 . T-76 ENGINE  
 ENGINES  
 . INTERNAL COMBUSTION ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . T-76 ENGINE  
 . TURBINE ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . T-76 ENGINE  
 RT HELICOPTER ENGINES

### T-78 ENGINE

GS AIRCRAFT ENGINES  
 . T-78 ENGINE  
 ENGINES  
 . INTERNAL COMBUSTION ENGINES  
 . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . TURBOJET ENGINES

### T-78 ENGINE-(CONT.)

. . . . . TURBOPROP ENGINES  
 . . . . . T-78 ENGINE  
 . . . . . TURBINE ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . TURBOPROP ENGINES  
 . . . . . T-78 ENGINE

### TABS (CONTROL SURFACES)

GS AIRFOILS  
 . TABS (CONTROL SURFACES)  
 CONTROL SURFACES  
 . TABS (CONTROL SURFACES)  
 RT AERIAL RUDDERS  
 AILERONS  
 ∞ CONTROL  
 ELEVATORS (CONTROL SURFACES)  
 ELEVONS  
 RUDDERS  
 STABILIZERS (FLUID DYNAMICS)  
 ∞ SURFACES

### TACAN

UF TACTICAL AIR NAVIGATION  
 GS NAVIGATION  
 . RADIO NAVIGATION  
 . . TACAN  
 RT AIR NAVIGATION  
 ALL-WEATHER AIR NAVIGATION  
 FLIGHT PATHS  
 NAVIGATION AIDS  
 RADAR NAVIGATION  
 SOLAR COMPASSES

### TACHISTOSCOPES

RT VISUAL PERCEPTION

### TACHOMETERS

GS DISPLAY DEVICES  
 . SPEED INDICATORS  
 . . TACHOMETERS  
 MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . SPEED INDICATORS  
 . . . TACHOMETERS  
 RT AIRCRAFT INSTRUMENTS  
 ANGULAR VELOCITY  
 TIMING DEVICES  
 VELOCITY MEASUREMENT

### TACT PROGRAM

UF TRANSONIC AIRCRAFT TECHNOLOGY  
 PROGRAM  
 GS PROGRAMS  
 . NASA PROGRAMS  
 . . TACT PROGRAM  
 RT ∞ AERONAUTICS  
 ∞ AIRCRAFT

### TACTICAL AIR NAVIGATION

USE TACAN

### TAGN

UF TRIAMINOQUANIDINENITRATE  
 GS OXIDIZERS  
 . ROCKET OXIDIZERS  
 . . TAGN  
 PROPELLANTS  
 . ROCKET PROPELLANTS  
 . . TAGN  
 RT EXPLOSIVES

### TAIL ASSEMBLIES

UF EMPENNAGE  
 TAIL MOUNTINGS  
 TAILS (ASSEMBLIES)  
 VERTICAL TAILS  
 GS ASSEMBLIES  
 . TAIL ASSEMBLIES  
 . . SWING TAIL ASSEMBLIES  
 RT AERIAL RUDDERS  
 AFTERBODIES  
 AIRCRAFT PARTS  
 AIRCRAFT STRUCTURES  
 AIRFOILS  
 AIRFRAMES  
 BOATTAILS  
 BODY-WING AND TAIL CONFIGURATIONS  
 ∞ BOOM  
 CONTROL SURFACES  
 ELEVATORS (CONTROL SURFACES)  
 FINS  
 HORIZONTAL TAIL SURFACES

### TAIL ASSEMBLIES-(CONT.)

HYDROFOILS  
 MARINE RUDDERS  
 MISSILE STRUCTURES  
 RUDDERS  
 SAILS  
 STABILIZERS (FLUID DYNAMICS)  
 T TAIL SURFACES  
 VANES

### TAIL MOUNTINGS

USE TAIL ASSEMBLIES

### TAIL PLANES

USE HORIZONTAL TAIL SURFACES

### TAIL ROTORS

GS ROTATING BODIES  
 . ROTORS  
 . . TAIL ROTORS  
 . . . HELICOPTER TAIL ROTORS  
 RT HELICOPTER CONTROL  
 ROTARY WINGS  
 ∞ ROTOR BLADES

### TAIL SURFACES

GS TAIL SURFACES  
 . HORIZONTAL TAIL SURFACES  
 . SWEPTBACK TAIL SURFACES  
 . T TAIL SURFACES  
 . TRAPEZOIDAL TAIL SURFACES  
 RT CONTROL SURFACES  
 ELEVATORS (CONTROL SURFACES)  
 RUDDERS  
 STABILIZERS (FLUID DYNAMICS)  
 ∞ SURFACES

### TAILLESS AIRCRAFT

UF FLYING WING AIRCRAFT  
 GS TAILLESS AIRCRAFT  
 . AVRO 707 AIRCRAFT  
 . B-58 AIRCRAFT  
 . F-102 AIRCRAFT  
 . F-106 AIRCRAFT  
 . FD 2 AIRCRAFT  
 . HP-115 AIRCRAFT  
 . MIRAGE 3 AIRCRAFT  
 . SC-1 AIRCRAFT  
 . VULCAN AIRCRAFT  
 RT ∞ AIRCRAFT  
 JET AIRCRAFT  
 ∞ LOW WING AIRCRAFT  
 ∞ MILITARY AIRCRAFT  
 MONOPLANES  
 RESEARCH AIRCRAFT

### TAILORING

USE DESIGN

### TAILS (ASSEMBLIES)

USE TAIL ASSEMBLIES

### TAKEOFF

GS TAKEOFF  
 . VERTICAL TAKEOFF  
 RT AIR TRAFFIC CONTROL  
 AIRCRAFT LANDING  
 ASCENT  
 CLIMBING FLIGHT  
 JATO ENGINES  
 LANDING  
 MANEUVERS  
 RUNWAYS

### TAKEOFF RUNS

RT AIRCRAFT PERFORMANCE  
 DISTANCE  
 RUNWAY ALIGNMENT  
 SHORT TAKEOFF AIRCRAFT

### TAKEOFF SYSTEMS

USE AIRCRAFT LAUNCHING DEVICES

### TALON AIRCRAFT

USE T-38 AIRCRAFT

### TALOS MISSILE

GS MISSILES  
 . SURFACE TO AIR MISSILES  
 . . TALOS MISSILE  
 RT BUMBLEBEE PROJECT  
 LIQUID PROPELLANT ROCKET ENGINES  
 MULTISTAGE ROCKET VEHICLES  
 SOLID PROPELLANT ROCKET ENGINES

**TANDEM ROTOR HELICOPTERS**

GS V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . HELICOPTERS  
 . . . TANDEM ROTOR HELICOPTERS  
 . . . . CH-46 HELICOPTER  
 . . . . CH-47 HELICOPTER  
 . . . . H-25 HELICOPTER  
 RT ∞ AIRCRAFT

**TANDEM WING AIRCRAFT**

GS TANDEM WING AIRCRAFT  
 . X-19 AIRCRAFT  
 . X-22A AIRCRAFT  
 RT ∞ AIRCRAFT  
 BIPLANES  
 CANARD CONFIGURATIONS  
 DUAL WING CONFIGURATIONS  
 JET AIRCRAFT  
 JOINED WINGS  
 RESEARCH AIRCRAFT  
 ∞ SUBSONIC AIRCRAFT  
 X-22 AIRCRAFT

**TANK GEOMETRY**

GS GEOMETRY  
 . TANK GEOMETRY  
 RT LIQUID SLOSHING  
 PROPELLANT TANKS  
 STORAGE TANKS  
 TANKS (CONTAINERS)  
 ULLAGE

**TANKER AIRCRAFT**

GS TRANSPORT AIRCRAFT  
 . TANKER AIRCRAFT  
 RT AIR TO AIR REFUELING  
 ∞ AIRCRAFT  
 AIRCRAFT FUELS  
 BOMBER AIRCRAFT  
 FUEL TANKS  
 ∞ MILITARY AIRCRAFT  
 ∞ TANKERS  
 VALIANT AIRCRAFT

**TANKER SHIPS**

GS SURFACE VEHICLES  
 . CARGO SHIPS  
 . . TANKER SHIPS  
 WATER VEHICLES  
 . SHIPS  
 . . CARGO SHIPS  
 . . . TANKER SHIPS  
 RT ARTIFICIAL HARBORS  
 DEEPWATER TERMINALS  
 HARBORS  
 MARINE TRANSPORTATION  
 OFFSHORE DOCKING  
 OFFSHORE PLATFORMS  
 SHIPYARDS  
 ∞ TANKERS  
 WHARVES

**TAPERED WINGS**

USE SWEPT WINGS

**TARGET ACQUISITION**

GS ACQUISITION  
 . TARGET ACQUISITION  
 RT DETECTION  
 HIGH ALT TARGET AND BACKGROUND  
 MEASUREMENT  
 MATTS (SYSTEMS)  
 MISSILE DETECTION  
 MOVING TARGET INDICATORS  
 SOUND RANGING  
 SURVEILLANCE  
 TARGETS

**TARGET DRONE AIRCRAFT**

GS DRONE VEHICLES  
 . DRONE AIRCRAFT  
 . . TARGET DRONE AIRCRAFT  
 . . . FIREBEE 2 TARGET DRONE  
 AIRCRAFT  
 . . . JINDIVIK TARGET AIRCRAFT  
 PILOTLESS AIRCRAFT  
 . DRONE AIRCRAFT  
 . . TARGET DRONE AIRCRAFT  
 . . . FIREBEE 2 TARGET DRONE  
 AIRCRAFT  
 . . . JINDIVIK TARGET AIRCRAFT  
 RT ∞ AIRCRAFT  
 ∞ MILITARY AIRCRAFT  
 REMOTELY PILOTED VEHICLES

**TARGET DRONE AIRCRAFT-(CONT.)**

## TARGETS

**TARGET RECOGNITION**

GS DETECTION  
 . TARGET RECOGNITION  
 RECOGNITION  
 . TARGET RECOGNITION  
 RT DISCRIMINATION  
 LASER TARGET DESIGNATORS  
 MISSILE DETECTION  
 MISSILE SIGNATURES  
 MULTISTATIC RADAR  
 NAP-OF-THE-EARTH NAVIGATION  
 RADAR HOMING MISSILES  
 RADAR SIGNATURES  
 SIGNATURE ANALYSIS  
 SIGNATURES  
 SURVEILLANCE  
 TARGETS  
 TRADEX RADAR SYSTEM

**TARGET SIMULATORS**

GS SIMULATORS  
 . TARGET SIMULATORS  
 RT COMPUTERIZED SIMULATION  
 DISPLAY DEVICES

**TARTAR MISSILE**

GS MISSILES  
 . ANTI-AIRCRAFT MISSILES  
 . . TARTAR MISSILE  
 . SURFACE TO AIR MISSILES  
 . . TARTAR MISSILE  
 RT AJ-10 ENGINE  
 BUMBLEBEE PROJECT  
 SOLID PROPELLANT ROCKET ENGINES

**TATB**

UF TRIAMINOTRINITROBENZENE  
 GS EXPLOSIVES  
 . TATB  
 PROPELLANTS  
 . ROCKET PROPELLANTS  
 . . TATB  
 RT ROCKET OXIDIZERS

**TAXIING**

RT AIR TRAFFIC CONTROL  
 AIRFIELD SURFACE MOVEMENTS  
 RUNWAYS

**TAYLOR INSTABILITY**

RT DENSITY DISTRIBUTION  
 GOERTLER INSTABILITY  
 INTERFACE STABILITY  
 PERTURBATION THEORY  
 ROTATING FLUIDS  
 TWO DIMENSIONAL FLOW

**TCV PROGRAM**

USE TERMINAL CONFIGURED VEHICLE  
 PROGRAM

**TELEOPERATOR MANEUVERING SYSTEM**

USE TELEOPERATORS

**TELEOPERATORS**

UF TELEOPERATOR MANEUVERING SYSTEM  
 GS CONTROL EQUIPMENT  
 . TELEOPERATORS  
 RT HUMAN FACTORS ENGINEERING  
 MAN MACHINE SYSTEMS  
 MANIPULATORS  
 REMOTE CONTROL  
 REMOTE HANDLING  
 ROBOTICS

**TELESCOPING STRUCTURES**

USE FOLDING STRUCTURES

**TEMPERATURE**

UF BODY TEMPERATURE (NON-BIOLOGICAL)  
 GS TEMPERATURE  
 . ABSOLUTE ZERO  
 . AMBIENT TEMPERATURE  
 . ATMOSPHERIC TEMPERATURE  
 . AURORAL TEMPERATURE  
 . IONOSPHERIC TEMPERATURE  
 . BODY TEMPERATURE  
 . BRIGHTNESS TEMPERATURE  
 . COMBUSTION TEMPERATURE  
 . CRITICAL TEMPERATURE  
 . CURIE TEMPERATURE

**TEMPERATURE-(CONT.)**

. FLAME TEMPERATURE  
 . GAS TEMPERATURE  
 . GLASS TRANSITION TEMPERATURE  
 . HIGH TEMPERATURE  
 . IGNITION TEMPERATURE  
 . FLASH POINT  
 . INLET TEMPERATURE  
 . ION TEMPERATURE  
 . LOW TEMPERATURE  
 . CRYOGENIC TEMPERATURE  
 . LUNAR TEMPERATURE  
 . NEEL TEMPERATURE  
 . NOISE TEMPERATURE  
 . OPERATING TEMPERATURE  
 . PLANETARY TEMPERATURE  
 . PLASMA TEMPERATURE  
 . ROOM TEMPERATURE  
 . SATELLITE TEMPERATURE  
 . SKIN TEMPERATURE (BIOLOGY)  
 . SOLAR TEMPERATURE  
 . SPACE TEMPERATURE  
 . SPIN TEMPERATURE  
 . STAGNATION TEMPERATURE  
 . STELLAR TEMPERATURE  
 . SUBZERO TEMPERATURE  
 . SURFACE TEMPERATURE  
 . SKIN TEMPERATURE  
 (NON-BIOLOGICAL)  
 . WALL TEMPERATURE  
 . TRANSITION TEMPERATURE  
 . WATER TEMPERATURE  
 . OCEAN TEMPERATURE  
 . . . SEA SURFACE TEMPERATURE  
 RT ABLATIVE MATERIALS  
 ADIABATIC CONDITIONS  
 AIR CONDITIONING  
 BIOLOGICAL EFFECTS  
 CLIMATOLOGY  
 COMFORT  
 CONVECTIVE FLOW  
 ELECTRON ENERGY  
 EMISSIVITY  
 ENVIRONMENTS  
 FREE CONVECTION  
 GEOTEMPERATURE  
 GIBBS-HELMHOLTZ EQUATIONS  
 HEAT  
 HEAT SHIELDING  
 HEAT STORAGE  
 HEATING  
 HUMIDITY  
 ISOTHERMS  
 LAPSE RATE  
 MELTING POINTS  
 METEOROLOGY  
 OCEAN THERMAL ENERGY CONVERSION  
 REFRIGERATING  
 SAHA EQUATIONS  
 SURFACE COOLING  
 TEMPERATURE COMPENSATION  
 TEMPERATURE CONTROL  
 TEMPERATURE DEPENDENCE  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE EFFECTS  
 TEMPERATURE GRADIENTS  
 TEMPERATURE INVERSIONS  
 TEMPERATURE MEASUREMENT  
 TEMPERATURE MEASURING  
 INSTRUMENTS  
 TEMPERATURE PROBES  
 TEMPERATURE PROFILES  
 TEMPERATURE RATIO  
 TEMPERATURE SCALES  
 TEMPERATURE SENSORS  
 TEPHIGRAMS  
 THERMAL ABSORPTION  
 THERMAL ANALYSIS  
 THERMAL BLOOMING  
 THERMAL BOUNDARY LAYER  
 THERMAL BUCKLING  
 THERMAL COMFORT  
 THERMAL CONDUCTIVITY  
 THERMAL CONDUCTIVITY GAGES  
 THERMAL CONDUCTORS  
 THERMAL CONTROL COATINGS  
 THERMAL CYCLING TESTS  
 THERMAL DECOMPOSITION  
 THERMAL DEGRADATION  
 THERMAL DIFFUSION  
 THERMAL DIFFUSIVITY  
 THERMAL DISSOCIATION  
 THERMAL EMISSION  
 THERMAL ENERGY  
 THERMAL ENVIRONMENTS  
 THERMAL EXPANSION

## TEMPERATURE COMPENSATION

### TEMPERATURE-(CONT.)

THERMAL FATIGUE  
THERMAL INSTABILITY  
THERMAL INSULATION  
THERMAL MAPPING  
THERMAL NEUTRONS  
THERMAL NOISE  
THERMAL PLASMAS  
THERMAL POLLUTION  
THERMAL PROTECTION  
THERMAL RADIATION  
THERMAL REACTORS  
THERMAL RESISTANCE  
THERMAL RESOURCES  
THERMAL SHOCK  
THERMAL SIMULATION  
THERMAL STABILITY  
THERMAL STRESSES  
THERMAL VACUUM TESTS  
THERMODYNAMIC EFFICIENCY  
THERMODYNAMIC PROPERTIES  
VENTILATION

### TEMPERATURE COMPENSATION

GS INSTRUMENT COMPENSATION  
RT  $\infty$  COMPENSATION  
TEMPERATURE

### TEMPERATURE CONTROL

UF HEAT REGULATION  
RT AIR CONDITIONING  
AUTOMATIC CONTROL  
AUTOMATIC CONTROL VALVES  
CHEMICAL REACTION CONTROL  
COMBUSTION CONTROL  
 $\infty$  CONTROL  
CONTROLLERS  
COOLING  
COOLING SYSTEMS  
CRYOSTATS  
ENGINE CONTROL  
ENVIRONMENTAL CONTROL  
ENVIRONMENTAL ENGINEERING  
EXHAUST SYSTEMS  
HEAT SHIELDING  
HEATING  
HEATING EQUIPMENT  
HIGH TEMPERATURE TESTS  
INFRARED SUPPRESSION  
LOW TEMPERATURE TESTS  
MANUAL CONTROL  
PLASMA COOLING  
REFRIGERATING  
REFRIGERATING MACHINERY  
REMOTE CONTROL  
REUSABLE HEAT SHIELDING  
SPACE COOLING (BUILDINGS)  
SPACE HEATING (BUILDINGS)  
SPACECRAFT TEMPERATURE  
TEMPERATURE  
THERMAL CONTROL COATINGS  
THERMAL CYCLING TESTS  
THERMAL INSULATION  
THERMOMETERS  
THERMOREGULATION  
THERMOSTATS  
TRANSPIRATION  
VENTILATION  
WATER HEATING

### TEMPERATURE DIFFERENCES

USE TEMPERATURE GRADIENTS

### TEMPERATURE DISTRIBUTION

UF TEMPERATURE FIELDS  
GS DISTRIBUTION (PROPERTY)  
RT  $\infty$  TEMPERATURE DISTRIBUTION  
AIR CONDITIONING  
COOLING  
COOLING SYSTEMS  
ENVIRONMENTAL ENGINEERING  
FIELD THEORY (PHYSICS)  
HEAT TREATMENT  
HEATING  
ISOTHERMAL FLOW  
ISOTHERMAL LAYERS  
ISOTHERMS  
OCEAN TEMPERATURE  
REFRIGERATING  
SATELLITE TEMPERATURE  
TEMPERATURE  
THERMAL MAPPING  
THERMAL RESOURCES  
THERMAL SHOCK

### TEMPERATURE DISTRIBUTION-(CONT.)

THERMAL STRESSES  
THERMOGRAPHY  
VENTILATION  
VERTICAL DISTRIBUTION  
WATER TEMPERATURE

### TEMPERATURE EFFECTS

UF HEAT EFFECTS  
PHOTOTHERMOTROPISM  
RICHARDSON-DUSHMAN EQUATION  
THERMAL EFFECTS  
THERMOTROPISM  
RT ABLATION  
ABSOLUTE ZERO  
CHEMICAL EFFECTS  
 $\infty$  EFFECTS  
ETTINGSHAUSEN EFFECT  
GLASS TRANSITION TEMPERATURE  
HEAT AFFECTED ZONE  
JET BLAST EFFECTS  
MAGNETIC EFFECTS  
NERNST-ETTINGSHAUSEN EFFECT  
Peltier Effects  
PRESSURE EFFECTS  
 $\infty$  RADIATION  
REENTRY EFFECTS  
SEEBECK EFFECT  
SHAPE MEMORY ALLOYS  
SOLAR GRANULATION  
STERILIZATION EFFECTS  
TEMPERATURE  
TEMPERATURE DEPENDENCE  
THERMAL BUCKLING  
THERMAL DEGRADATION  
THERMAL DISSOCIATION  
THERMAL RESISTANCE  
THERMAL STRESSES  
THERMOGRAVIMETRY  
THERMOLUMINESCENCE  
THERMOPHORESIS  
THERMOPLASTICITY  
TIME TEMPERATURE PARAMETER

### TEMPERATURE FIELDS

USE TEMPERATURE DISTRIBUTION

### TEMPERATURE GRADIENTS

UF TEMPERATURE DIFFERENCES  
GS GRADIENTS  
RT  $\infty$  TEMPERATURE GRADIENTS  
THERMOCLINES  
ATMOSPHERIC TEMPERATURE  
BATHYTHERMOGRAPHS  
CHAPMAN-ENSKOG THEORY  
CONVECTIVE HEAT TRANSFER  
ISOTHERMAL LAYERS  
ISOTHERMS  
NONISOTHERMAL PROCESSES  
OCEAN TEMPERATURE  
POTENTIAL GRADIENTS  
STRATIFICATION  
TEMPERATURE  
THERMAL ANALYSIS  
THERMAL MAPPING  
THERMOMIGRATION  
THERMOPHORESIS

### TEMPERATURE INDICATORS

USE INDICATING INSTRUMENTS  
TEMPERATURE MEASURING  
INSTRUMENTS

### TEMPERATURE INSTRUMENTS

USE TEMPERATURE MEASURING  
INSTRUMENTS

### TEMPERATURE MEASUREMENT

UF PYROMETRY  
THERMOMETRY  
RT ANOMALOUS TEMPERATURE ZONES  
BOLOMETERS  
BRIGHTNESS TEMPERATURE  
CRAYONS  
GAS TEMPERATURE  
HIGH TEMPERATURE  
 $\infty$  MEASUREMENT  
NOISE TEMPERATURE  
PYROMETERS  
RADIATION PYROMETERS  
RESISTANCE THERMOMETERS  
SATELLITE TEMPERATURE  
SODAR  
SOUND DETECTING AND RANGING  
TEMPERATURE

### TEMPERATURE MEASUREMENT-(CONT.)

THERMOCOUPLE PYROMETERS  
THERMOCOUPLES  
THERMOGRAPHY  
THERMOMETERS  
WIND TUNNEL CALIBRATION

### TEMPERATURE MEASURING INSTRUMENTS

UF TEMPERATURE INDICATORS  
TEMPERATURE INSTRUMENTS  
THERMOGRAMS  
GS MEASURING INSTRUMENTS  
 $\infty$  TEMPERATURE MEASURING  
INSTRUMENTS  
BATHYTHERMOGRAPHS  
OPTICAL PYROMETERS  
PYROMETERS  
RADIATION PYROMETERS  
THERMOCOUPLE PYROMETERS  
TEMPERATURE PROBES  
PNEUMATIC PROBES  
THERMOMETERS  
RESISTANCE THERMOMETERS  
RT ANOMALOUS TEMPERATURE ZONES  
BOLOMETERS  
BOMB CALORIMETERS  
CALORIMETERS  
DROP CALORIMETERS  
FLAME CALORIMETERS  
FLAME PROBES  
TEMPERATURE  
THERMISTORS  
THERMOCOUPLES  
THERMOPILES  
THERMOSTATS  
TRANSDUCERS

### TEMPERATURE PROBES

GS MEASURING INSTRUMENTS  
TEMPERATURE MEASURING  
INSTRUMENTS  
TEMPERATURE PROBES  
PNEUMATIC PROBES  
RT TEMPERATURE  
THERMOCOUPLES

### TEMPERATURE PROFILES

RT HEAT TRANSFER  
TEMPERATURE  
THERMAL ANALYSIS

### TEMPERATURE SENSORS

GS TEMPERATURE SENSORS  
THERMISTORS  
RT ANOMALOUS TEMPERATURE ZONES  
TEMPERATURE

### TEMPERING

GS HEAT TREATMENT  
TEMPERING  
RT ANNEALING  
 $\infty$  DRAWING  
HARDENING (MATERIALS)  
LASER ANNEALING  
METAL WORKING  
NORMALIZING (HEAT TREATMENT)  
STRESS RELIEVING  
STRETCHING

### TEMPORAL RESOLUTION

UF MULTITEMPORAL ANALYSIS  
GS RESOLUTION  
TEMPORAL RESOLUTION  
RT SPATIAL RESOLUTION

### TENSILE TESTS

RT DESTRUCTIVE TESTS  
FATIGUE TESTS  
LOAD TESTS  
SPECIMEN GEOMETRY  
STATIC TESTS  
 $\infty$  TESTS

### TERCOM

UF TERRAIN CONTOUR MATCHING  
NAVIGATION SYSTEM  
GS NAVIGATION AIDS  
TERCOM  
ONBOARD EQUIPMENT  
AIRBORNE EQUIPMENT  
TERCOM  
AIRCRAFT EQUIPMENT  
TERCOM  
RT DISPLAY DEVICES  
FLIGHT INSTRUMENTS



**TERCOM-(CONT.)**

MAP MATCHING GUIDANCE  
NAVIGATION INSTRUMENTS  
∞ SYSTEMS  
VIDEO LANDMARK ACQUISITION AND TRACKING

**TERMINAL AREA ENERGY MANAGEMENT**

GS MANAGEMENT  
  . TERMINAL AREA ENERGY MANAGEMENT  
RT DIGITAL TECHNIQUES  
SPACE SHUTTLE ORBITERS  
SPACE TRANSPORTATION  
SPACECRAFT LANDING

**TERMINAL CONFIGURED VEHICLE PROGRAM**

UF TCV PROGRAM  
GS PROGRAMS  
  . NASA PROGRAMS  
  . TERMINAL CONFIGURED VEHICLE PROGRAM  
RT AIRCRAFT DESIGN  
AUTOMATIC CONTROL  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC LANDING CONTROL  
ELECTRONIC CONTROL  
FEEDBACK CONTROL  
∞ VEHICLES

**TERMINAL GUIDANCE**

GS GUIDANCE (MOTION)  
  . TERMINAL GUIDANCE  
  . LASER GUIDANCE  
RT COMMAND GUIDANCE  
DESCENT TRAJECTORIES  
ENTRY GUIDANCE (STS)  
GLIDE PATHS  
HOMING  
INERTIAL GUIDANCE  
MIDCOURSE GUIDANCE  
REENTRY  
REENTRY GUIDANCE  
REENTRY TRAJECTORIES  
REENTRY VEHICLES  
RENDEZVOUS GUIDANCE  
SPACECRAFT GUIDANCE

**∞ TERMINALS**

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT CONNECTORS  
DATA PROCESSING TERMINALS  
ELECTRIC TERMINALS  
∞ HEADERS  
JUMPERS  
OUTLETS  
SHIP TERMINALS  
TERMINAL FACILITIES

**TERRAIN CONTOUR MATCHING NAVIGATION SYSTEM**

USE TERCOM

**TERRAIN FOLLOWING AIRCRAFT**

GS TERRAIN FOLLOWING AIRCRAFT  
  . TSR-2 AIRCRAFT  
RT AH-1G HELICOPTER  
AH-63 HELICOPTER  
AH-64 HELICOPTER  
∞ AIRCRAFT  
ATTACK AIRCRAFT  
JET AIRCRAFT  
LIGHT AIRCRAFT  
∞ MILITARY AIRCRAFT  
NAP-OF-THE-EARTH NAVIGATION  
OBSERVATION AIRCRAFT  
∞ SUBSONIC AIRCRAFT  
UTILITY AIRCRAFT

**TERRIER MISSILE**

GS MISSILES  
  . ANTIAIRCRAFT MISSILES  
  . TERRIER MISSILE  
  . SURFACE TO AIR MISSILES  
  . TERRIER MISSILE  
RT BUMBLEBEE PROJECT  
MULTISTAGE ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES

**TEST BEDS**

USE TEST STANDS

**TEST CHAMBERS**

UF ENVIRONMENTAL CHAMBERS  
GS COMPARTMENTS  
  . TEST CHAMBERS  
  . ANECHOIC CHAMBERS  
  . PRESSURE CHAMBERS  
  . HYPERBARIC CHAMBERS  
  . VACUUM CHAMBERS  
  . REVERBERATION CHAMBERS  
RT ∞ CAPSULES  
∞ CHAMBERS  
CRYOGENIC WIND TUNNELS  
ENVIRONMENT MODELS  
ENVIRONMENT SIMULATORS  
ENVIRONMENTAL CONTROL  
ENVIRONMENTAL LABORATORIES  
ENVIRONMENTAL TESTS  
THERMAL VACUUM TESTS  
VACUUM TESTS  
WIND TUNNELS

**∞ TEST EQUIPMENT**

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
UF CHECKOUT EQUIPMENT  
TESTERS  
TESTING MACHINES  
RT ANALYZERS  
ASTRONOMICS  
AUTOMATIC TEST EQUIPMENT  
AVIONICS  
∞ CAPSULES  
CEFOAM CHECKOUT EQUIPMENT  
CENTRIFUGES  
CHECKOUT  
DYNAMOMETERS  
EARTH TERMINAL MEASUREMENT SYSTEM  
ELECTRONIC EQUIPMENT TESTS  
∞ EQUIPMENT  
FATIGUE TESTING MACHINES  
FREE FLIGHT TEST APPARATUS  
FREQUENCY ANALYZERS  
GEOPHYSICAL FLUID FLOW CELLS  
GROUND SUPPORT EQUIPMENT  
HYPERSONIC TEST APPARATUS  
IMPACT TESTING MACHINES  
LOAD TESTING MACHINES  
MEASURING INSTRUMENTS  
MONOSCOPES  
ONBOARD EQUIPMENT  
ROCKET PROPELLED SLEDS  
SAMPLERS  
SIMULATORS  
SUPERSONIC TEST APPARATUS  
TEST FACILITIES  
TEST PATTERN GENERATORS  
TEST STANDS  
WIND TUNNEL MODELS  
WIND TUNNELS

**TEST FACILITIES**

GS TEST FACILITIES  
  . ANECHOIC CHAMBERS  
  . CENTRAL ATLANTIC REGIONAL ECOLOGICAL TEST SITE  
  . ENGINE TESTING LABORATORIES  
  . ENVIRONMENTAL LABORATORIES  
  . HYDRAULIC TEST TUNNELS  
  . REVERBERATION CHAMBERS  
  . ROCKET TEST FACILITIES  
  . TEST RANGES  
  . BALLISTIC RANGES  
  . MISSILE RANGES  
  . TEST STANDS  
  . TRANSIENT REACTOR TEST FACILITY  
  . WIND TUNNELS  
  . BLOWDOWN WIND TUNNELS  
  . COMBUSTION WIND TUNNELS  
  . CRYOGENIC WIND TUNNELS  
  . HYPERSONIC WIND TUNNELS  
  . CASCADE WIND TUNNELS  
  . HOTSHOT WIND TUNNELS  
  . PLASMA JET WIND TUNNELS  
  . SHOCK TUNNELS  
  . HYPERVELOCITY WIND TUNNELS  
  . CASCADE WIND TUNNELS  
  . HOTSHOT WIND TUNNELS  
  . PLASMA JET WIND TUNNELS  
  . SHOCK TUNNELS  
  . LOW DENSITY WIND TUNNELS  
  . LOW SPEED WIND TUNNELS  
  . SUBSONIC WIND TUNNELS  
  . RECTANGULAR WIND TUNNELS

**TEST FACILITIES-(CONT.)**

  . SLOTTED WIND TUNNELS  
  . SUPERSONIC WIND TUNNELS  
  . TRANSONIC WIND TUNNELS  
  . TRISONIC WIND TUNNELS  
RT ARIZONA REGIONAL ECOLOGICAL TEST SITE  
∞ FACILITIES  
FLIGHT SIMULATORS  
LABORATORIES  
MODELS  
MOTION SIMULATORS  
RESEARCH FACILITIES  
SHOCK TUBES  
SIMULATORS  
SOLAR SIMULATORS  
SPACECRAFT CABIN SIMULATORS  
∞ TEST EQUIPMENT  
∞ TESTS

**TEST FIRING**

GS FIRING (IGNITING)  
  . TEST FIRING  
  . STATIC FIRING  
RT ENGINE TESTS  
FUEL TESTS  
GROUND TESTS  
MISSILE TESTS  
PREFIRING TESTS  
PRELAUNCH TESTS  
ROCKET FIRING  
ROCKET TEST FACILITIES  
STATIC TESTS  
∞ TESTS

**TEST PILOTS**

GS PERSONNEL  
  . FLYING PERSONNEL  
  . PILOTS (PERSONNEL)  
  . AIRCRAFT PILOTS  
  . TEST PILOTS  
  . OPERATORS (PERSONNEL)  
  . PILOTS (PERSONNEL)  
  . AIRCRAFT PILOTS  
  . TEST PILOTS  
RT ∞ PILOTS

**TEST RANGES**

GS RANGES (FACILITIES)  
  . TEST RANGES  
  . BALLISTIC RANGES  
  . MISSILE RANGES  
  . TEST FACILITIES  
  . TEST RANGES  
  . BALLISTIC RANGES  
  . MISSILE RANGES  
RT DOWNRANGE  
DOWNRANGE MEASUREMENT  
RANGE SAFETY  
ROCKET TEST FACILITIES

**TEST STANDS**

UF TEST BEDS  
GS TEST FACILITIES  
  . TEST STANDS  
RT ENGINE TESTS  
FLAME DEFLECTORS  
PREFIRING TESTS  
PRELAUNCH TESTS  
ROCKET TEST FACILITIES  
∞ TEST EQUIPMENT

**TEST VEHICLES**

GS TEST VEHICLES  
  . FLIGHT TEST VEHICLES  
RT ∞ AIRCRAFT  
ALTITUDE TESTS  
∞ BALLISTIC VEHICLES  
∞ CAPSULES  
ELECTRIC MOTOR VEHICLES  
HIGH ALTITUDE TESTS  
HYPERSONIC VEHICLES  
LAUNCH VEHICLES  
MISSILE TESTS  
MISSILES  
REENTRY VEHICLES  
RESEARCH AIRCRAFT  
ROCKET VEHICLES  
∞ SPACECRAFT  
∞ TESTS  
TOWED BODIES  
∞ VEHICLES

**TESTERS**

USE TEST EQUIPMENT

## TESTING

### TESTING

USE TESTS

### TESTING MACHINES

USE TEST EQUIPMENT

### ∞ TESTS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*

UF PRETESTS  
TESTING  
RT ACCELERATED LIFE TESTS  
ACCEPTABILITY  
ACCURACY  
ADHESION TESTS  
ALTITUDE TESTS  
APPROACH AND LANDING TESTS (STS)  
BEND TESTS  
CAPTIVE TESTS  
CHECKOUT  
CHEMICAL ANALYSIS  
CHEMICAL TESTS  
COLD FLOW TESTS  
COLD WEATHER TESTS  
COMPRESSION TESTS  
COMPUTATIONAL CHEMISTRY  
CONFIDENCE LIMITS  
CORROSION TEST LOOPS  
CORROSION TESTS  
CREEP TESTS  
CREW PROCEDURES (INFLIGHT)  
CREW PROCEDURES (PREFLIGHT)  
DAMPING TESTS  
DESTRUCTIVE TESTS  
DROP TESTS  
DYNAMIC TESTS  
EDUCATION  
ELECTRIC EQUIPMENT TESTS  
ELECTRONIC EQUIPMENT TESTS  
EMPLOYMENT  
ENGINE TESTS  
ENVIRONMENTAL TESTS  
ERRORS  
EVALUATION  
EXAMINATION  
EXTRAPOLATION  
FATIGUE TESTS  
FLIGHT STABILITY TESTS  
FLIGHT TESTS  
FUEL TESTS  
FULL SCALE TESTS  
GROUND TESTS  
HARDNESS TESTS  
HIGH ALTITUDE TESTS  
HIGH TEMPERATURE TESTS  
IMPACT TESTS  
LABORATORIES  
LOAD TESTS  
LOW TEMPERATURE TESTS  
LUBRICANT TESTS  
∞ MATERIALS TESTS  
MEDIAN (STATISTICS)  
MISSILE TESTS  
NONDESTRUCTIVE TESTS  
NOTCH TESTS  
ORBITAL SPACE TESTS  
PATCH TESTS  
PERFORMANCE TESTS  
PERSONALITY TESTS  
PHYSIOLOGICAL TESTS  
PREFIRING TESTS  
PREFLIGHT ANALYSIS  
PRELAUNCH TESTS  
PROGRAM VERIFICATION (COMPUTERS)  
PROPELLANT TESTS  
PROVING  
PSYCHOLOGICAL TESTS  
QUALIFICATIONS  
QUALITY  
QUALITY CONTROL  
RAILROAD HUMMING TESTS  
RANK TESTS  
REACTOR STARTUP TESTS  
RECORDS  
RELIABILITY  
RESONANCE TESTING  
RORSCHACH TESTS  
SALT SPRAY TESTS  
SAMPLING  
SELECTION  
SELF TESTS  
SHOCK TESTS  
SNELLEN TESTS  
SPACE ELECTRIC ROCKET TESTS

### TESTS-(CONT.)

SPACE TRANSPORTATION SYSTEM  
FLIGHTS  
SPACE VEHICLE CHECKOUT PROGRAM  
SPIN TESTS  
STABILITY TESTS  
STATIC TESTS  
STATISTICAL TESTS  
STROKING TESTS  
TASKS  
TENSILE TESTS  
TEST FACILITIES  
TEST FIRING  
TEST VEHICLES  
TESTING TIME  
THERMAL CYCLING TESTS  
THERMAL VACUUM TESTS  
ULTRASONIC TESTS  
VACUUM TESTS  
VIBRATION TESTS  
WATER TUNNEL TESTS  
WEAR TESTS  
WELD TESTS  
WIND TUNNEL STABILITY TESTS  
WIND TUNNEL TESTS  
WING FLOW METHOD TESTS  
X RAY INSPECTION

### TETHERED BALLOONS

UF KITE BALLOONS  
GS EXPANDABLE STRUCTURES  
INFLATABLE STRUCTURES  
BALLOONS  
TETHERED BALLOONS  
RT METEOROLOGICAL BALLOONS  
REELS

### TF-30 ENGINE

GS AIRCRAFT ENGINES  
TF-30 ENGINE  
ENGINES  
INTERNAL COMBUSTION ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOFAN ENGINES  
TF-30 ENGINE  
TURBINE ENGINES  
GAS TURBINE ENGINES  
JET ENGINES  
TURBOJET ENGINES  
TURBOFAN ENGINES  
TF-30 ENGINE

### TF-34 ENGINE

GS AIRCRAFT ENGINES  
TF-34 ENGINE  
RT CONVERTIBLE FAN-SHAFT ENGINES

### TFX AIRCRAFT

USE F-111 AIRCRAFT

### TH-55 HELICOPTER

GS HUGHES AIRCRAFT  
TH-55 HELICOPTER  
V/STOL AIRCRAFT  
ROTARY WING AIRCRAFT  
HELICOPTERS  
TH-55 HELICOPTER

### THEODOLITES

GS MEASURING INSTRUMENTS  
OPTICAL MEASURING INSTRUMENTS  
TRANSITS  
THEODOLITES  
CINETHODOLITES  
OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
TRANSITS  
THEODOLITES  
CINETHODOLITES  
RT SEXTANTS

### THEODORSEN TRANSFORMATION

RT AIRFOIL PROFILES  
COMPLEX VARIABLES  
CONFORMAL MAPPING  
COORDINATE TRANSFORMATIONS  
JOUKOWSKI TRANSFORMATION  
PRESSURE DISTRIBUTION

### THERMAL ABSORPTION

GS ENERGY ABSORPTION  
THERMAL ABSORPTION  
POLAR CAP ABSORPTION

### THERMAL ABSORPTION-(CONT.)

RT ABLATION  
∞ ABSORPTION  
ATMOSPHERIC ATTENUATION  
CHARRING  
GRAY GAS  
HEAT SINKS  
PYROLYSIS  
TEMPERATURE

### THERMAL AGITATION

USE THERMAL ENERGY

### THERMAL ANALYSIS

UF DIFFERENTIAL THERMAL ANALYSIS  
DTA (ANALYSIS)  
RT ∞ ANALYZING  
HEAT TRANSMISSION  
TEMPERATURE  
TEMPERATURE GRADIENTS  
TEMPERATURE PROFILES

### THERMAL BOUNDARY LAYER

GS BOUNDARY LAYERS  
THERMAL BOUNDARY LAYER  
RT HYPERSONIC BOUNDARY LAYER  
LAMINAR BOUNDARY LAYER  
RAYLEIGH-BENARD CONVECTION  
TEMPERATURE  
TURBULENT BOUNDARY LAYER

### THERMAL BUCKLING

GS BUCKLING  
THERMAL BUCKLING  
RT EXPANSION  
TEMPERATURE  
TEMPERATURE EFFECTS  
THERMAL EXPANSION

### THERMAL CONDUCTIVITY

GS THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
THERMAL CONDUCTIVITY  
TRANSPORT PROPERTIES  
THERMAL CONDUCTIVITY  
RT AIR CONDUCTIVITY  
ATMOSPHERIC CONDUCTIVITY  
CONDUCTIVE HEAT TRANSFER  
∞ CONDUCTIVITY  
FOURIER LAW  
HOT-WIRE FLOWMETERS  
LEWIS NUMBERS  
SPECIFIC HEAT  
TEMPERATURE  
THERMOHYDRAULICS

### THERMAL CONDUCTIVITY GAGES

SN (GAGES FOR MEASURING THERMAL CONDUCTIVITY--EXCLUDES GAGES USING THERMAL CONDUCTIVITY TO MEASURE OTHER PROPERTIES OR VARIABLES)  
GS MEASURING INSTRUMENTS  
THERMAL CONDUCTIVITY GAGES  
RT TEMPERATURE

### THERMAL CONDUCTORS

GS CONDUCTORS  
THERMAL CONDUCTORS  
RT ∞ CONDUCTION  
CONDUCTIVE HEAT TRANSFER  
ELECTRIC CONDUCTORS  
TEMPERATURE

### THERMAL CONTROL COATINGS

GS COATINGS  
THERMAL CONTROL COATINGS  
RT ABLATIVE MATERIALS  
∞ CONTROL  
HEAT SHIELDING  
REENTRY SHIELDING  
REUSABLE HEAT SHIELDING  
TEMPERATURE  
TEMPERATURE CONTROL

### THERMAL CONVECTION

USE FREE CONVECTION

### THERMAL CURRENTS

USE CONVECTIVE FLOW

### THERMAL CYCLING TESTS

RT CLOSED CYCLES  
COOLING

## THERMOCHEMICAL PROPERTIES

### THERMAL CYCLING TESTS-(CONT.)

ENVIRONMENTAL TESTS  
FATIGUE TESTS  
HEATING  
TEMPERATURE  
TEMPERATURE CONTROL  
∞ TESTS  
THERMODYNAMIC PROPERTIES

### THERMAL DEGRADATION

GS DEGRADATION  
THERMAL DEGRADATION  
RT PYROLYSIS  
STERILIZATION EFFECTS  
TEMPERATURE  
TEMPERATURE DEPENDENCE  
TEMPERATURE EFFECTS

### THERMAL DIFFUSION

GS DIFFUSION  
THERMAL DIFFUSION  
THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
THERMAL DIFFUSION  
RT CHAPMAN-ENSKOG THEORY  
CONDUCTION  
CONVECTIVE FLOW  
ELECTRON DIFFUSION  
GAS HEATING  
GASEOUS DIFFUSION  
HEAT TRANSFER  
KIRKENDALL EFFECT  
PECLET NUMBER  
SEPARATION  
SORET COEFFICIENT  
SURFACE DIFFUSION  
TEMPERATURE  
THERMOCHEMISTRY  
THERMOHYDRAULICS  
VISCOSITY

### THERMAL DIFFUSIVITY

GS THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
THERMAL DIFFUSIVITY  
TRANSPORT PROPERTIES  
THERMAL DIFFUSIVITY  
RT TEMPERATURE  
VISCOSITY

### THERMAL DISSOCIATION

GS CHEMICAL REACTIONS  
THERMAL DISSOCIATION  
DISSOCIATION  
THERMAL DISSOCIATION  
RT CRACKING (CHEMICAL ENGINEERING)  
DECOMPOSITION  
DEGRADATION  
GAS DISSOCIATION  
HEAT OF DISSOCIATION  
HYDROGEN PRODUCTION  
IONIZATION  
PLASMAS (PHYSICS)  
TEMPERATURE  
TEMPERATURE EFFECTS

### THERMAL EFFECTS

USE TEMPERATURE EFFECTS

### THERMAL EMISSION

GS EMISSION  
THERMAL EMISSION  
THERMIONIC EMISSION  
RT ELECTRON EMISSION  
EMISSION  
EXHAUST EMISSION  
INCANDESCENCE  
INFRARED ABSORPTION  
TEMPERATURE

### THERMAL ENERGY

UF THERMAL AGITATION  
RT COGENERATION  
ENERGY  
FREE ENERGY  
GEOTHERMAL ENERGY CONVERSION  
GEOTHERMAL RESOURCES  
HEAT  
HEAT OF FUSION  
HEAT OF SOLUTION  
INTERNAL ENERGY  
KINETIC ENERGY  
LATTICE VIBRATIONS  
PHOTOTHERMAL CONVERSION

### THERMAL ENERGY-(CONT.)

SOLAR THERMAL ELECTRIC POWER  
PLANTS  
TEMPERATURE

### THERMAL EXPANSION

GS EXPANSION  
THERMAL EXPANSION  
THERMODYNAMIC PROPERTIES  
THERMAL EXPANSION  
RT BOUSSINESQ APPROXIMATION  
DILATOMETRY  
EXTENSOMETERS  
GRUNEISEN CONSTANT  
HEAT TRANSFER  
HIGH TEMPERATURE TESTS  
LOW TEMPERATURE TESTS  
NEEL TEMPERATURE  
PHYSICAL PROPERTIES  
TEMPERATURE  
THERMAL BUCKLING  
THERMOPHYSICAL PROPERTIES  
WARPAGE

### THERMAL FATIGUE

GS FATIGUE (MATERIALS)  
THERMAL FATIGUE  
RT HIGH TEMPERATURE ENVIRONMENTS  
METAL FATIGUE  
TEMPERATURE

### THERMAL INSTABILITY

GS THERMODYNAMIC PROPERTIES  
THERMAL INSTABILITY  
RT CLEAR AIR TURBULENCE  
COMBUSTION STABILITY  
MAGNETOHYDRODYNAMIC STABILITY  
PYROLYSIS  
SPUTTERING  
STELLARATORS  
TEMPERATURE

### THERMAL INSULATION

GS INSULATION  
THERMAL INSULATION  
RT AIR CONDITIONING  
AMBERLITE (TRADEMARK)  
ASBESTOS  
CORK (MATERIALS)  
CRYOGENIC FLUID STORAGE  
HEAT  
HEAT SHIELDING  
HEAT SINKS  
HEAT TRANSFER  
HEAT TRANSMISSION  
HEATING EQUIPMENT  
REENTRY SHIELDING  
REFRACTORIES  
REFRACTORY COATINGS  
TEMPERATURE  
TEMPERATURE CONTROL  
TROMBE WALLS

### THERMAL POWER

USE TURBOGENERATORS

### THERMAL PROTECTION

GS PROTECTION  
THERMAL PROTECTION  
RT ABLATIVE MATERIALS  
CARBON-CARBON COMPOSITES  
HEAT SHIELDING  
LUDOX (TRADEMARK)  
RADIATION PROTECTION  
REENTRY SHIELDING  
REUSABLE HEAT SHIELDING  
TEMPERATURE

### THERMAL RADIATION

SN (EMITTED AS THE RESULT OF THERMAL  
EXCITATION OF MOLECULES)  
GS ELECTROMAGNETIC RADIATION  
THERMAL RADIATION  
BLACK BODY RADIATION  
PHONON BEAMS  
RT CONCENTRATORS  
GREENHOUSE EFFECT  
HEAT  
INFRARED RADIATION  
LIGHT (VISIBLE RADIATION)  
NEAR INFRARED RADIATION  
NONGRAY GAS  
NONTHERMAL RADIATION  
PLANCKS CONSTANT  
PLANETARY RADIATION

### THERMAL RADIATION-(CONT.)

∞ RADIATION  
RADIO WAVES  
SKY RADIATION  
SOLAR RADIATION  
SUNLIGHT  
TEMPERATURE  
THERMODYNAMIC PROPERTIES  
ULTRAVIOLET RADIATION

### THERMAL RESISTANCE

UF HEAT RESISTANCE  
GS MECHANICAL PROPERTIES  
THERMAL RESISTANCE  
RT CARBON-CARBON COMPOSITES  
HIGH RESISTANCE  
HIGH TEMPERATURE LUBRICANTS  
HIGH TEMPERATURE TESTS  
LOW RESISTANCE  
OXIDATION  
OXIDATION RESISTANCE  
RESISTANCE  
SPECIFIC HEAT  
TEMPERATURE  
TEMPERATURE EFFECTS  
THERMODYNAMIC PROPERTIES

### THERMAL SHOCK

RT COOLING  
HEATING  
HIGH TEMPERATURE TESTS  
SHOCK  
SHOCK RESISTANCE  
TEMPERATURE  
TEMPERATURE DISTRIBUTION  
THERMODYNAMIC PROPERTIES

### THERMAL SIMULATION

GS SIMULATION  
ENVIRONMENT SIMULATION  
THERMAL SIMULATION  
RT ALTITUDE SIMULATION  
SOLAR SIMULATION  
SPACE ENVIRONMENT SIMULATION  
TEMPERATURE

### THERMAL SINKS

USE HEAT SINKS

### THERMAL STRESSES

SN (EXCLUDES BIOLOGICAL STRESSES)  
GS STRESSES  
THERMAL STRESSES  
RT COOLING  
FATIGUE (MATERIALS)  
HEATING  
TEMPERATURE  
TEMPERATURE DISTRIBUTION  
TEMPERATURE EFFECTS

### THERMAL VACUUM TESTS

GS VACUUM TESTS  
THERMAL VACUUM TESTS  
RT ENVIRONMENTAL TESTS  
HIGH ALTITUDE ENVIRONMENTS  
TEMPERATURE  
TEST CHAMBERS  
TESTS  
VACUUM CHAMBERS

### THERMIONIC REACTORS

USE ION ENGINES  
NUCLEAR ROCKET ENGINES

### THERMOCHEMICAL PROPERTIES

GS CHEMICAL PROPERTIES  
THERMOCHEMICAL PROPERTIES  
HEAT OF COMBUSTION  
HEAT OF DISSOCIATION  
HEAT OF FORMATION  
HEAT OF SOLUTION  
LATENT HEAT  
HEAT OF FUSION  
HEAT OF VAPORIZATION  
THERMODYNAMIC PROPERTIES  
THERMOCHEMICAL PROPERTIES  
HEAT OF COMBUSTION  
HEAT OF DISSOCIATION  
HEAT OF FORMATION  
HEAT OF SOLUTION  
LATENT HEAT  
HEAT OF FUSION  
HEAT OF VAPORIZATION  
RT HEAT BALANCE  
PROPERTIES

## THERMOCOUPLE PYROMETERS

### THERMOCOUPLE PYROMETERS

- GS MEASURING INSTRUMENTS
  - . TEMPERATURE MEASURING INSTRUMENTS
  - . PYROMETERS
  - . . . THERMOCOUPLE PYROMETERS
- RT GALVANOMETERS
  - . POTENTIOMETERS (INSTRUMENTS)
  - . RADIATION PYROMETERS
  - . RESISTANCE THERMOMETERS
  - . TEMPERATURE MEASUREMENT THERMOCOUPLES
  - . THERMOELEMENT AMMETERS

### THERMODYNAMIC COUPLING

- GS COUPLING
  - . THERMODYNAMIC COUPLING
- RT BCS THEORY
  - . ELECTRON PHONON INTERACTIONS
  - . SUPERCONDUCTORS

### THERMODYNAMIC CYCLES

- GS CYCLES
  - . THERMODYNAMIC CYCLES
  - . . BRAYTON CYCLE
  - . . CARNOT CYCLE
  - . . OTTO CYCLE
  - . . RANKINE CYCLE
  - . . STIRLING CYCLE
- RT ADIABATIC CONDITIONS
  - . CLOSED CYCLES
  - . INTERNAL COMBUSTION ENGINES
  - . LASER PROPULSION
- ∞ STROKES
  - . THERMODYNAMICS

### THERMOELASTICITY

- GS MECHANICAL PROPERTIES
  - . ELASTIC PROPERTIES
  - . . THERMOELASTICITY
  - . . . AEROTHERMOELASTICITY
- RT AEROELASTICITY
  - . AEROTHERMODYNAMICS
  - . HYDROELASTICITY
  - . THERMOELECTRIC GENERATORS
  - . THERMOELECTRIC MATERIALS

### THERMOGRAMS

- USE RECORDING INSTRUMENTS
  - . TEMPERATURE MEASURING INSTRUMENTS

### THERMOGRAPHY

- RT INFRARED IMAGERY
  - . NONDESTRUCTIVE TESTS
  - . TEMPERATURE DISTRIBUTION
  - . TEMPERATURE MEASUREMENT
  - . THERMAL MAPPING

### THERMOHYDRAULICS

- RT CONVECTIVE HEAT TRANSFER
  - . FLUID DYNAMICS
  - . FLUID FLOW
  - . HEAT TRANSMISSION
- ∞ HYDRAULICS
  - . HYDRODYNAMICS
  - . LAMINAR HEAT TRANSFER
  - . RADIATIVE HEAT TRANSFER
  - . THERMAL CONDUCTIVITY
  - . THERMAL DIFFUSION
  - . TURBULENT HEAT TRANSFER

### THERMOMECHANICAL TREATMENT

- GS THERMOMECHANICAL TREATMENT
  - . HOT PRESSING
  - . . HOT ISOSTATIC PRESSING
- RT HEAT AFFECTED ZONE
  - . HEAT TREATMENT
- ∞ METALLURGY
  - . MICROSTRUCTURE
  - . PLASTIC DEFORMATION
  - . QUENCHING (COOLING)
  - . TREATMENT

### THERMOMETERS

- GS MEASURING INSTRUMENTS
  - . TEMPERATURE MEASURING INSTRUMENTS
  - . . THERMOMETERS
  - . . . RESISTANCE THERMOMETERS
- RT TEMPERATURE CONTROL
  - . TEMPERATURE MEASUREMENT
  - . TEMPERATURE SCALES

### THERMOMETRY

- USE TEMPERATURE MEASUREMENT

### THERMOPHYSICAL PROPERTIES

- GS THERMODYNAMIC PROPERTIES
  - . THERMOPHYSICAL PROPERTIES
  - . . CRITICAL POINT
  - . . CRITICAL PRESSURE
  - . . CRITICAL TEMPERATURE
  - . . EMISSIVITY
  - . . FUSIBILITY
  - . . HEAT OF SOLUTION
  - . . LATENT HEAT
  - . . HEAT OF FUSION
  - . . HEAT OF VAPORIZATION
  - . . MELTING POINTS
  - . . PYROELECTRICITY
  - . . SPECIFIC HEAT
  - . . SUPERCRITICAL PRESSURES
  - . . THERMAL CONDUCTIVITY
  - . . THERMAL DIFFUSION
  - . . THERMAL DIFFUSIVITY
  - . . THERMAL STABILITY
  - . . VAPOR PRESSURE
  - . . VOLATILITY
- RT PELTIER EFFECTS
  - . PROPERTIES
  - . . SEEBECK EFFECT
  - . . SURFACE ENERGY
  - . . THERMAL EXPANSION
  - . . THERMOCHEMISTRY

### THERMOPLASTICITY

- GS MECHANICAL PROPERTIES
  - . PLASTIC PROPERTIES
  - . . THERMOPLASTICITY
- RT BOUGUER LAW
  - . TEMPERATURE EFFECTS
  - . THERMOPLASTIC RESINS

### THERMOSIPHONS

- GS REGENERATORS
  - . THERMOSIPHONS
- RT CONVECTIVE HEAT TRANSFER
  - . FREE CONVECTION
- ∞ RADIATORS
  - . SIPHONING

### THERMOSTATS

- GS CONTROL EQUIPMENT
  - . THERMOSTATS
  - . REGULATORS
  - . . THERMOSTATS
  - . . SWITCHES
  - . . . ELECTRIC SWITCHES
- RT AUTOMATIC CONTROL
  - . CONTROLLERS
  - . CRYOSTATS
  - . TEMPERATURE CONTROL
  - . TEMPERATURE MEASURING INSTRUMENTS

### THERMOTROPISM

- USE ANISOTROPY
  - . TEMPERATURE EFFECTS

### THERMOVISCOELASTICITY

- GS MECHANICAL PROPERTIES
  - . ELASTIC PROPERTIES
  - . . VISCOELASTICITY
  - . . . THERMOVISCOELASTICITY
- RT IRREVERSIBLE PROCESSES
  - . STRESS-STRAIN-TIME RELATIONS

### THETA PINCH

- GS PINCH EFFECT
  - . PLASMA PINCH
  - . . THETA PINCH
- RT LASER PLASMA INTERACTIONS
  - . PLASMA COMPRESSION
  - . ROTATING PLASMAS
  - . SCREW PINCH
  - . ZETA PINCH

### THICK PLATES

- RT FLAT PLATES
  - . METAL PLATES
- ∞ PLATES
  - . PLATES (STRUCTURAL MEMBERS)
- ∞ SHEETS
  - . THICKNESS
  - . THIN PLATES

### THICK WALLS

- GS WALLS
  - . THICK WALLS
- RT BOILER PLATE
  - . BULKHEADS
  - . REINFORCEMENT (STRUCTURES)
  - . STRUCTURAL MEMBERS
  - . THIN WALLS
  - . WALL PRESSURE
  - . WALL TEMPERATURE

### ∞ THICKENERS

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*
- RT THICKENERS (EQUIPMENT)
  - . THICKENERS (MATERIALS)

### THICKENERS (EQUIPMENT)

- GS SEPARATORS
  - . CLASSIFIERS
  - . . THICKENERS (EQUIPMENT)
- RT COALESCING
  - . PRECIPITATORS
- ∞ THICKENERS

### THICKNESS RATIO

- GS RATIOS
  - . THICKNESS RATIO
- RT AIRFOIL PROFILES
  - . AIRFOILS
  - . FINENESS RATIO
  - . THICKNESS
  - . THIN AIRFOILS
  - . THIN WINGS

### THIN AIRFOILS

- GS AIRFOILS
  - . THIN AIRFOILS
  - . . THIN WINGS
  - . . . INFINITE SPAN WINGS
- RT AIRFOIL PROFILES
  - . THICKNESS RATIO

### ∞ THIN BODIES

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*
- RT SLENDER BODIES
  - . THIN PLATES
  - . THIN WALLS
  - . THIN WINGS

### THIN PLATES

- SN *(EXCLUDES THIN SURFACE COATINGS AND FILMS)*
- RT DIAPHRAGMS (MECHANICS)
  - . FLAT PLATES
  - . FOILS (MATERIALS)
  - . METAL PLATES
  - . PANELS
  - . PARALLEL PLATES
- ∞ PLATES
  - . PLATES (STRUCTURAL MEMBERS)
- ∞ SHEETS
  - . THICK PLATES
- ∞ THIN BODIES

### THIN WALLED SHELLS

- GS SHELLS (STRUCTURAL FORMS)
  - . THIN WALLED SHELLS
- RT CYLINDRICAL SHELLS
  - . MEMBRANE STRUCTURES
  - . METAL SHELLS
  - . ORTHOTROPIC SHELLS
  - . REINFORCED SHELLS
  - . SKIN (STRUCTURAL MEMBER)
  - . SPHERICAL SHELLS
  - . STRESSED-SKIN STRUCTURES
  - . TOROIDAL SHELLS

### THIN WALLS

- GS WALLS
  - . THIN WALLS
- RT BULKHEADS
  - . DIAPHRAGMS (MECHANICS)
  - . PARTITIONS (STRUCTURES)
  - . SKIN (STRUCTURAL MEMBER)
  - . THICK WALLS
  - . . THIN BODIES

### THIN WINGS

- GS AIRFOILS
  - . THIN AIRFOILS

THIN WINGS-(CONT.)

- THIN WINGS
  - INFINITE SPAN WINGS
  - WINGS
  - THIN WINGS
    - INFINITE SPAN WINGS
- RT AIRFOIL PROFILES
- FIXED WINGS
- FLEXIBLE WINGS
- THICKNESS RATIO
- THIN BODIES
- UNCAMBERED WINGS

THIXOTROPY

- RT GELATION
- GELS
- LIQUEFACTION
- NONNEWTONIAN FLOW
- PHYSICAL PROPERTIES
- SEMISOLIDS
- SOLUBILITY
- VISCOSITY

THOR ABLE ROCKET VEHICLE

- GS LAUNCH VEHICLES
  - THOR LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE
  - THORAD LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE
  - ROCKET VEHICLES
  - MULTISTAGE ROCKET VEHICLES
  - THOR LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE
  - THORAD LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE
- RT EXPLORER 8 SATELLITE
- LIQUID PROPELLANT ROCKET ENGINES
- PIONEER 1 SPACE PROBE
- PIONEER 5 SPACE PROBE
- SOLID PROPELLANT ROCKET ENGINES
- TIROS 1 SATELLITE

THOR AGENA LAUNCH VEHICLE

- GS LAUNCH VEHICLES
  - THOR LAUNCH VEHICLES
  - THOR AGENA LAUNCH VEHICLE
  - THORAD LAUNCH VEHICLES
  - THOR AGENA LAUNCH VEHICLE
  - ROCKET VEHICLES
  - MULTISTAGE ROCKET VEHICLES
  - THOR LAUNCH VEHICLES
  - THOR AGENA LAUNCH VEHICLE
  - THORAD LAUNCH VEHICLES
  - THOR AGENA LAUNCH VEHICLE
- RT AGENA A ROCKET VEHICLE
- AGENA B RANGER PROGRAM
- AGENA ROCKET VEHICLES
- DISCOVERER SATELLITES
- EXPLORER 31 SATELLITE
- EXPLORER 34 SATELLITE
- EXPLORER 35 SATELLITE
- EXPLORER 36 SATELLITE
- LIQUID PROPELLANT ROCKET ENGINES
- NIMBUS SATELLITES
- NIMBUS 1 SATELLITE
- NIMBUS 2 SATELLITE
- OGO-3

THOR DELTA LAUNCH VEHICLE

- UF ECHO 1 CARRIER ROCKET
- GS LAUNCH VEHICLES
  - THOR LAUNCH VEHICLES
  - THOR DELTA LAUNCH VEHICLE
  - THORAD LAUNCH VEHICLES
  - THOR DELTA LAUNCH VEHICLE
  - ROCKET VEHICLES
  - MULTISTAGE ROCKET VEHICLES
  - THOR LAUNCH VEHICLES
  - THOR DELTA LAUNCH VEHICLE
  - THORAD LAUNCH VEHICLES
  - THOR DELTA LAUNCH VEHICLE
- RT ARIEL SATELLITES
- ECHO 1 SATELLITE
- EXPLORER SATELLITES
- LIQUID PROPELLANT ROCKET ENGINES
- OSO
- RELAY SATELLITES
- SOLID PROPELLANT ROCKET ENGINES
- SYNCOM SATELLITES
- TELSTAR SATELLITES

THOR LAUNCH VEHICLES

- GS LAUNCH VEHICLES
  - THOR LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE

THOR LAUNCH VEHICLES-(CONT.)

- THOR AGENA LAUNCH VEHICLE
- THOR DELTA LAUNCH VEHICLE
- ROCKET VEHICLES
- MULTISTAGE ROCKET VEHICLES
- THOR LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE
  - THOR AGENA LAUNCH VEHICLE
  - THOR DELTA LAUNCH VEHICLE
- RT LIQUID PROPELLANT ROCKET ENGINES
- SOLID PROPELLANT ROCKET ENGINES
- THORAD LAUNCH VEHICLES
- VEHICLES

THORAD LAUNCH VEHICLES

- GS LAUNCH VEHICLES
  - THORAD LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE
  - THOR AGENA LAUNCH VEHICLE
  - THOR DELTA LAUNCH VEHICLE
  - ROCKET VEHICLES
  - THORAD LAUNCH VEHICLES
  - THOR ABLE ROCKET VEHICLE
  - THOR AGENA LAUNCH VEHICLE
  - THOR DELTA LAUNCH VEHICLE
- RT LIQUID PROPELLANT ROCKET ENGINES
- THOR LAUNCH VEHICLES
- VEHICLES

THREE DIMENSIONAL BODIES

- RT AERODYNAMIC CONFIGURATIONS
- BODIES
- BOUNDARY VALUE PROBLEMS
- FLOW DISTRIBUTION

THREE DIMENSIONAL BOUNDARY LAYER

- GS BOUNDARY LAYERS
  - THREE DIMENSIONAL BOUNDARY LAYER
- RT AXISYMMETRIC FLOW
- BOUNDARY LAYER TRANSITION
- COMPRESSIBLE BOUNDARY LAYER
- LAMINAR BOUNDARY LAYER
- LAYERS
- SECONDARY FLOW
- TURBULENT BOUNDARY LAYER
- VELOCITY DISTRIBUTION

THREE DIMENSIONAL FLOW

- GS FLUID FLOW
  - PARALLEL FLOW
  - THREE DIMENSIONAL FLOW
  - TRANSLATIONAL MOTION
  - THREE DIMENSIONAL MOTION
  - THREE DIMENSIONAL FLOW
  - KARMAN-BODEWADT FLOW
  - SECONDARY FLOW
- RT AXIAL FLOW
- CONICAL FLOW
- FLOW GEOMETRY
- HELICAL FLOW
- ONE DIMENSIONAL FLOW
- ROSHKO PREDICTION
- SPHERICAL WAVES
- TWO DIMENSIONAL FLOW
- WEDGE FLOW

THREE DIMENSIONAL MODELS

- GS MODELS
  - THREE DIMENSIONAL MODELS
- RT COMPUTATIONAL GRIDS
- COMPUTER AIDED DESIGN
- COMPUTERIZED SIMULATION
- MATHEMATICAL MODELS
- TWO DIMENSIONAL MODELS

THROATS

- SN (NON BIOLOGICAL)
- RT CARBURETORS
- CHANNELS
- CHOKES (RESTRICTIONS)
- DUCTS
- NOZZLE GEOMETRY
- NOZZLE INSERTS
- NOZZLE WALLS
- ORIFICES

THRUST

- UF THRUST POWER
- GS THRUST
  - HIGH THRUST
  - JET THRUST
  - LEADING EDGE THRUST
  - LOW THRUST
  - MICROTHRUST

THRUST-(CONT.)

- ROCKET THRUST
- RETROTHRUST
- STATIC THRUST
- VARIABLE THRUST
- RT ACCELERATION (PHYSICS)
- AUXILIARY PROPULSION
- BURNING TIME
- DUAL THRUST NOZZLES
- FORCE
- JET ENGINES
- NOZZLE THRUST COEFFICIENTS
- POWER
- PROPULSION
- REACTION
- ROCKET ENGINES
- ROCKET PROPELLANTS
- SPECIFIC IMPULSE

THRUST AUGMENTATION

- GS AUGMENTATION
  - THRUST AUGMENTATION
- RT AFTERBURNING
- COANDA EFFECT
- HIGH THRUST
- SECONDARY INJECTION
- SHROUDED PROPELLERS
- VARIABLE THRUST
- WATER INJECTION

THRUST BEARINGS

- GS BEARINGS
  - THRUST BEARINGS
- RT ANTI-FRICTION BEARINGS
- BALL BEARINGS
- GAS BEARINGS
- ROLLER BEARINGS

THRUST CHAMBERS

- UF ROCKET CHAMBERS
- RT ARC CHAMBERS
- CHAMBERS
- COMBUSTION CHAMBERS
- DIVERGENT NOZZLES
- ROCKET ENGINE CASES

THRUST CONTROL

- GS THRUST CONTROL
  - THRUST VECTOR CONTROL
- RT ATTITUDE CONTROL
- CONTROL
- CONTROL ROCKETS
- ENGINE CONTROL
- JET CONTROL
- REACTION CONTROL
- ROCKET ENGINE CONTROL
- SATELLITE CONTROL
- TURBOJET ENGINE CONTROL
- VARIABLE THRUST

THRUST DISTRIBUTION

- RT AERODYNAMIC FORCES
- DISTRIBUTION
- FORCE DISTRIBUTION
- LEADING EDGES
- PRESSURE DISTRIBUTION
- VORTICES
- WING PLANFORMS

THRUST LOADS

- GS LOADS (FORCES)
  - DYNAMIC LOADS
  - THRUST LOADS
- RT AERODYNAMIC LOADS
- AXIAL COMPRESSION LOADS
- AXIAL LOADS
- COMPRESSION LOADS
- JET THRUST
- ROCKET THRUST
- STRUCTURAL DESIGN CRITERIA

THRUST MEASUREMENT

- GS MECHANICAL MEASUREMENT
  - THRUST MEASUREMENT
- RT ACCELEROMETERS
- DYNAMOMETERS
- FORCE
- MEASUREMENT

THRUST POWER

- USE THRUST

THRUST PROGRAMMING

- UF OPTIMUM THRUST PROGRAMMING

## THRUST REVERSAL

### THRUST PROGRAMMING-(CONT.)

GS PROGRAMMING (SCHEDULING)  
 . THRUST PROGRAMMING  
 RT FLIGHT MECHANICS  
 FLIGHT OPTIMIZATION  
 FLIGHT PLANS  
 ORBITAL MECHANICS  
 PARKING ORBITS  
 PROPULSIVE EFFICIENCY  
 TRAJECTORY CONTROL

### THRUST REVERSAL

RT AIRCRAFT BRAKES  
 BRAKES (FOR ARRESTING MOTION)  
 BRAKING  
 DECELERATION

### THRUST TERMINATION

GS STOPPING  
 . THRUST TERMINATION  
 RT BURNOUT  
 ROCKET THRUST  
 STAGE SEPARATION  
 VARIABLE THRUST

### THRUST VECTOR CONTROL

UF TVC (CONTROL)  
 GS ATTITUDE CONTROL  
 . DIRECTIONAL CONTROL  
 . THRUST VECTOR CONTROL  
 FLIGHT CONTROL  
 . THRUST VECTOR CONTROL  
 THRUST CONTROL  
 . THRUST VECTOR CONTROL  
 RT AIR SLEW MISSILES  
 AUTOMATIC CONTROL  
 AUTOMATIC FLIGHT CONTROL  
 ∞ CONTROL  
 GUIDE VANES  
 GYROSTABILIZERS  
 JET VANES  
 LIQUID INJECTION  
 MANEUVERABLE SPACECRAFT  
 MISSILE CONTROL  
 NOZZLE THRUST COEFFICIENTS  
 ROCKET ENGINES  
 SECONDARY INJECTION  
 SPACECRAFT CONTROL  
 VARIABLE THRUST  
 VERNIER ENGINES

### THRUST-WEIGHT RATIO

GS RATIOS  
 . THRUST-WEIGHT RATIO  
 RT ACCELERATION (PHYSICS)  
 MASS RATIOS  
 PRESSURE RATIO  
 ROCKET ENGINES

### THUNDERCHIEF AIRCRAFT

USE F-105 AIRCRAFT

### TILT

USE ATTITUDE (INCLINATION)

### TILT ROTOR AIRCRAFT

GS V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . TILT ROTOR AIRCRAFT  
 . V-22 AIRCRAFT  
 . XV-15 AIRCRAFT  
 RT ∞ AIRCRAFT  
 HELICOPTERS  
 TILTING ROTORS

### TILT ROTOR RESEARCH AIRCRAFT PROGRAM

GS PROGRAMS  
 . NASA PROGRAMS  
 . TILT ROTOR RESEARCH AIRCRAFT  
 PROGRAM  
 RT ∞ AIRCRAFT  
 HELICOPTERS  
 ROTARY WINGS  
 V-22 AIRCRAFT  
 XV-15 AIRCRAFT

### TILT WING AIRCRAFT

UF PIVOTED WING AIRCRAFT  
 GS TILT WING AIRCRAFT  
 . CL-84 AIRCRAFT  
 . L-29 JET TRAINER  
 . VZ-2 AIRCRAFT  
 . XC-142 AIRCRAFT  
 RT ∞ AIRCRAFT

### TILT WING AIRCRAFT-(CONT.)

FAN IN WING AIRCRAFT  
 RESEARCH AIRCRAFT  
 SHORT TAKEOFF AIRCRAFT  
 V-22 AIRCRAFT  
 V/STOL AIRCRAFT  
 VERTICAL TAKEOFF AIRCRAFT  
 X-22 AIRCRAFT

### TILTED PROPELLERS

GS PROPELLERS  
 . TILTED PROPELLERS  
 RT HELICOPTER PROPELLER DRIVE

### TILTING

USE ATTITUDE (INCLINATION)

### TILTING ROTORS

GS AIRFOILS  
 . WINGS  
 . . . ROTARY WINGS  
 . . . TILTING ROTORS  
 ROTATING BODIES  
 . ROTORS  
 . . . ROTARY WINGS  
 . . . TILTING ROTORS  
 RT TILT ROTOR AIRCRAFT  
 V-22 AIRCRAFT  
 XV-3 AIRCRAFT

### TIME DEPENDENCE

GS DEPENDENCE  
 . TIME DEPENDENCE  
 RT ∞ HELMHOLTZ EQUATIONS  
 SPATIAL DEPENDENCIES  
 STOCHASTIC PROCESSES  
 TEMPORAL DISTRIBUTION  
 ∞ TIME RESPONSE

### TIME LAPSE PHOTOGRAPHY

USE CHRONOPHOTOGRAPHY

### TIME MARCHING

RT FINITE DIFFERENCE THEORY  
 NUMERICAL ANALYSIS  
 SPATIAL MARCHING

### TIMERS

USE TIMING DEVICES

### TIMING DEVICES

UF TIMERS  
 GS MEASURING INSTRUMENTS  
 . TIME MEASURING INSTRUMENTS  
 . . . TIMING DEVICES  
 RT CHRONOMETERS  
 CLOCK PARADOX  
 CLOCKS  
 DWELL  
 PENDULUMS  
 TACHOMETERS  
 TIME MEASUREMENT  
 TIME SIGNALS

### TIP DRIVEN ROTORS

UF HOT CYCLE PROPULSION SYSTEM  
 GS AIRFOILS  
 . WINGS  
 . . . ROTARY WINGS  
 . . . TIP DRIVEN ROTORS  
 ROTATING BODIES  
 . ROTORS  
 . . . ROTARY WINGS  
 . . . TIP DRIVEN ROTORS  
 RT XV-9A AIRCRAFT

### TIP SPEED

GS RATES (PER TIME)  
 . TIP SPEED  
 VELOCITY  
 . TIP SPEED  
 RT ANGULAR VELOCITY  
 CRITICAL VELOCITY  
 ROTOR SPEED

### TIP VANES

GS ROTATING BODIES  
 . ROTORS  
 . . . TIP VANES  
 TURBOMACHINERY  
 . TURBINES  
 . . . WIND TURBINES  
 . . . TIP VANES

### TIPS

GS TIPS  
 . BLADE TIPS  
 . CRACK TIPS  
 . NOSE TIPS  
 . WING TIPS  
 RT AIRFOIL PROFILES  
 EDGES

### TIRES

GS TIRES  
 . AIRCRAFT TIRES  
 RT BLOWOUTS  
 INFLATABLE STRUCTURES  
 LANDING GEAR  
 ROLLERS  
 TOROIDAL WHEELS  
 TREADS  
 VEHICLE WHEELS  
 WHEEL BRAKES  
 WHEELS

### TITAN ICBM

GS MISSILES  
 . BALLISTIC MISSILES  
 . . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . TITAN ICBM  
 . . . . TITAN 1 ICBM  
 . . . . TITAN 2 ICBM  
 . . . SURFACE TO SURFACE MISSILES  
 . . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . TITAN ICBM  
 . . . . TITAN 1 ICBM  
 . . . . TITAN 2 ICBM  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 LR-91-AJ-5 ENGINE  
 MULTISTAGE ROCKET VEHICLES  
 YLR-91-AJ-1 ENGINE

### TITAN LAUNCH VEHICLES

GS LAUNCH VEHICLES  
 . TITAN LAUNCH VEHICLES  
 . . . TITAN 3 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . . . TITAN LAUNCH VEHICLES  
 . . . TITAN 3 LAUNCH VEHICLE  
 RT GEMINI 3 FLIGHT  
 GEMINI 7 FLIGHT  
 GEMINI 8 FLIGHT  
 GEMINI 9 FLIGHT  
 GEMINI 10 FLIGHT  
 GEMINI 11 FLIGHT  
 GEMINI 12 FLIGHT  
 LIQUID PROPELLANT ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 ∞ VEHICLES

### TITAN PROJECT

GS PROGRAMS  
 . NASA PROGRAMS  
 . . . NASA SPACE PROGRAMS  
 . . . TITAN PROJECT  
 . . . PROJECTS  
 . . . TITAN PROJECT  
 . . . SPACE PROGRAMS  
 . . . NASA SPACE PROGRAMS  
 . . . TITAN PROJECT  
 RT ∞ BOOSTERS  
 GEMINI PROJECT  
 GEMINI SPACECRAFT  
 LAUNCH VEHICLES  
 LAUNCHERS  
 LAUNCHING

### TITAN 1 ICBM

UF SM-68 MISSILE  
 GS MISSILES  
 . BALLISTIC MISSILES  
 . . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . TITAN ICBM  
 . . . . TITAN 1 ICBM  
 . . . SURFACE TO SURFACE MISSILES  
 . . . INTERCONTINENTAL BALLISTIC  
 MISSILES  
 . . . TITAN ICBM  
 . . . . TITAN 1 ICBM  
 RT LR-87-AJ-5 ENGINE

### TITAN 2 ICBM

UF SM-68B MISSILE  
 GS MISSILES

**TITAN 2 ICBM-(CONT.)**

.. BALLISTIC MISSILES  
.. INTERCONTINENTAL BALLISTIC MISSILES  
.. TITAN ICBM  
.. TITAN 2 ICBM  
.. SURFACE TO SURFACE MISSILES  
.. INTERCONTINENTAL BALLISTIC MISSILES  
.. TITAN ICBM  
.. TITAN 2 ICBM  
RT HYLA-STAR ROCKET VEHICLE

**TITAN 3 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
.. TITAN LAUNCH VEHICLES  
.. TITAN 3 LAUNCH VEHICLE  
.. ROCKET VEHICLES  
.. MULTISTAGE ROCKET VEHICLES  
.. TITAN LAUNCH VEHICLES  
.. TITAN 3 LAUNCH VEHICLE  
RT MANNED ORBITAL LABORATORIES

**TOLERANCES (MECHANICS)**

GS TOLERANCES (MECHANICS)  
.. IMPACT TOLERANCES  
RT ACCEPTABILITY  
.. ACCURACY  
.. ALLOWANCES  
.. CLEARANCES  
.. CONSISTENCY  
.. DIMENSIONAL STABILITY  
.. DRIFT (INSTRUMENTATION)  
.. ERRORS  
.. HYSTERESIS  
.. INSPECTION  
.. LINEARITY  
.. MECHANICAL PROPERTIES  
.. NONDESTRUCTIVE TESTS  
.. PRECISION  
.. QUALITY CONTROL  
.. RADIATION TOLERANCE  
.. RANGE (EXTREMES)  
.. RELIABILITY  
.. RESOLUTION  
.. SENSITIVITY  
.. SPECIFICATIONS  
.. STABILITY  
.. STANDARDS

**TOLLIEN-SCHLICHTING WAVES**

GS ELASTIC WAVES  
.. TOLLIEN-SCHLICHTING WAVES  
RT BLASIS FLOW  
.. BOUNDARY LAYER FLOW  
.. BOUNDARY LAYER TRANSITION  
.. LAMINAR FLOW  
.. TURBULENT FLOW

**TOLUENE**

GS ORGANIC COMPOUNDS  
.. HYDROCARBONS  
.. TOLUENE  
RT SOLVENTS  
.. XYLENE

**TOMAHAWK MISSILES**

GS MISSILES  
.. SURFACE TO SURFACE MISSILES  
.. CRUISE MISSILES  
.. TOMAHAWK MISSILES  
RT WEAPONS

**TONE**

USE PITCH

**TONOMETRY**

USE INTRAOCULAR PRESSURE  
.. PRESSURE MEASUREMENT

**TORNADO AIRCRAFT**

USE MRCA AIRCRAFT

**TOROIDAL SHELLS**

GS SHELLS (STRUCTURAL FORMS)  
.. TOROIDAL SHELLS  
RT METAL SHELLS  
.. REINFORCED SHELLS  
.. SKIN (STRUCTURAL MEMBER)  
.. THIN WALLED SHELLS  
.. TOROIDS

**TORPEDO ENGINES**

GS ENGINES

**TORPEDO ENGINES-(CONT.)**

.. TORPEDO ENGINES  
.. TURBOROCKET ENGINES  
.. ULLAGE ROCKET ENGINES  
.. VERNIER ENGINES  
.. CONTROL ROCKETS  
.. SYNCOM APOGEE ENGINES  
RT INTERNAL COMBUSTION ENGINES  
.. ROCKET PROPELLANTS  
.. TURBINE ENGINES  
.. UNDERWATER PROPULSION

**TORPEDOES**

UF RETORC (TORPEDOES)  
GS EXPLOSIVE DEVICES  
.. TORPEDOES  
RT AMMUNITION  
.. ANTISUBMARINE WARFARE  
.. ASROC ENGINE  
.. BOMBS (ORDNANCE)  
.. CONFIGURATIONS  
.. COUNTERMEASURES  
.. EXPLOSIVES  
.. HYDROBALLISTICS  
.. MISSILES  
.. NUCLEAR WEAPONS  
.. PROPELLANTS  
.. ROCKETS  
.. SEA LAUNCHING  
.. SHAPED CHARGES  
.. SUBMERGED BODIES  
.. UNDERWATER TRAJECTORIES  
.. WARHEADS  
.. WEAPONS

**TORQUE**

UF HINGE MOMENTS  
GS MOMENTS  
.. TORQUE  
RT BENDING MOMENTS  
.. FORCE  
.. LOADING MOMENTS  
.. MOMENTS OF INERTIA  
.. PITCHING MOMENTS  
.. ROLLING MOMENTS  
.. ROTATION  
.. SHAFTS (MACHINE ELEMENTS)  
.. TORQUEMETERS  
.. TORSION  
.. TORSIONAL STRESS  
.. TORSIONAL VIBRATION  
.. TWISTING  
.. YAWING MOMENTS

**TORQUE MEASURING APPARATUS**

USE TORQUEMETERS

**TORQUEMETERS**

UF TORQUE MEASURING APPARATUS  
GS MEASURING INSTRUMENTS  
.. TORQUEMETERS  
RT DYNAMOMETERS  
.. MECHANICAL MEASUREMENT  
.. TORQUE

**TORSIONAL VIBRATION**

GS VIBRATION  
.. STRUCTURAL VIBRATION  
.. TORSIONAL VIBRATION  
RT MISSILE VIBRATION  
.. RANDOM VIBRATION  
.. SELF INDUCED VIBRATION  
.. SHEAR STRAIN  
.. TORQUE  
.. TORSION  
.. TWISTING

**TOUCHDOWN**

GS LANDING  
.. TOUCHDOWN  
RT AIRCRAFT LANDING  
.. APPROACH  
.. APPROACH AND LANDING TESTS (STS)  
.. DOWNRANGE  
.. SPACECRAFT LANDING  
.. VERTICAL LANDING  
.. VERTICAL MOTION  
.. WATER LANDING

**TOW MISSILES**

GS MISSILES  
.. SURFACE TO SURFACE MISSILES  
.. ANTITANK MISSILES  
.. TOW MISSILES

**TOWED BODIES**

UF DROGUES  
.. TOWED TARGETS  
RT AIRCRAFT BRAKES  
.. BODIES  
.. BRAKES (FOR ARRESTING MOTION)  
.. DRAG CHUTES  
.. GLIDERS  
.. LIFTING BODIES  
.. PARACHUTES  
.. SLEDS  
.. STREAMLINED BODIES  
.. SUBMERGED BODIES  
.. TEST VEHICLES  
.. TOWING  
.. TRAILERS

**TOWED TARGETS**

USE TARGETS  
.. TOWED BODIES

**TOWERS**

GS TOWERS  
.. AIRPORT TOWERS  
.. UMBILICAL TOWERS  
RT AIR TRAFFIC CONTROL  
.. ANTENNAS  
.. BRIDGES (STRUCTURES)  
.. COLUMNS (SUPPORTS)  
.. CONCRETE STRUCTURES  
.. CONSTRUCTION INDUSTRY  
.. CRANES  
.. PYLONS  
.. STRUCTURES  
.. TANKS (CONTAINERS)

**TOWING**

RT CABLES (ROPES)  
.. TOWED BODIES  
.. TRACTORS  
.. TRAILERS

**TRAAC SATELLITE**

USE TRANSIT ATTITUDE CONTROL  
.. SATELLITE

**TRACKED VEHICLES**

GS SURFACE VEHICLES  
.. MOTOR VEHICLES  
.. TRACTORS  
.. TRACKED VEHICLES  
RT CRAWLER TRACTORS  
.. VEHICLES  
.. VEHICULAR TRACKS

**TRACTORS**

GS SURFACE VEHICLES  
.. MOTOR VEHICLES  
.. TRACTORS  
.. CRAWLER TRACTORS  
.. TRACKED VEHICLES  
RT AGRICULTURE  
.. ELECTRIC MOTOR VEHICLES  
.. GROUND HANDLING  
.. HANDLING EQUIPMENT  
.. MATERIALS HANDLING  
.. PLANTING  
.. PLOWING  
.. SLEDS  
.. TOWING  
.. TRANSPORTATION  
.. TRUCKS  
.. VEHICLES

**TRACTS**

USE SITES

**TRADER AIRCRAFT**

USE C-1A AIRCRAFT

**TRAFFIC**

GS TRAFFIC  
.. AIR TRAFFIC  
RT ACCIDENTS  
.. AVOIDANCE  
.. HARBORS  
.. TRANSPORTATION

**TRAFFIC CONTROL**

GS TRAFFIC CONTROL  
.. AIR TRAFFIC CONTROL  
.. AUTOMATED EN ROUTE ATC  
.. RADAR APPROACH CONTROL

## TRAILBLAZER 1 REENTRY VEHICLE

### TRAFFIC CONTROL-(CONT.)

RT AIR TRAFFIC CONTROLLERS  
(PERSONNEL)  
AIRPORT TOWERS  
APPROACH CONTROL  
AVOIDANCE  
COLLISION AVOIDANCE  
∞CONTROL  
GROUND BASED CONTROL  
NATIONAL AVIATION SYSTEM

### TRAILBLAZER 1 REENTRY VEHICLE

UF TRAILBLAZER 1 ROCKET VEHICLE  
GS REENTRY VEHICLES  
RT TRAILBLAZER 1 REENTRY VEHICLE  
HONEST JOHN ROCKET VEHICLE  
LANCE MISSILE  
MULTISTAGE ROCKET VEHICLES  
NIKE-AJAX MISSILE  
ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES

### TRAILBLAZER 1 ROCKET VEHICLE

USE TRAILBLAZER 1 REENTRY VEHICLE

### TRAILBLAZER 2 REENTRY VEHICLE

UF TRAILBLAZER 2 ROCKET VEHICLE  
GS REENTRY VEHICLES  
RT TRAILBLAZER 2 REENTRY VEHICLE  
MULTISTAGE ROCKET VEHICLES  
ROCKET VEHICLES  
SOLID PROPELLANT ROCKET ENGINES  
TX-354 ENGINE

### TRAILBLAZER 2 ROCKET VEHICLE

USE TRAILBLAZER 2 REENTRY VEHICLE

### TRAILERS

RT AUTOMOBILES  
COUPLINGS  
SLEDS  
TANK TRUCKS  
TOWED BODIES  
TOWING  
TRUCKS

### TRAILING EDGE FLAPS

UF VARIABLE AREA WINGS  
GS AIRFOILS  
FLAPS (CONTROL SURFACES)  
WING FLAPS  
TRAILING EDGE FLAPS  
BRAKES (FOR ARRESTING MOTION)  
AERODYNAMIC BRAKES  
WING FLAPS  
TRAILING EDGE FLAPS  
AIRCRAFT BRAKES  
WING FLAPS  
TRAILING EDGE FLAPS  
CONTROL SURFACES  
FLAPS (CONTROL SURFACES)  
WING FLAPS  
TRAILING EDGE FLAPS  
DRAG DEVICES  
AERODYNAMIC BRAKES  
WING FLAPS  
TRAILING EDGE FLAPS  
RT JET FLAPS  
LEADING EDGE SLATS  
SPLIT FLAPS  
VORTEX FLAPS

### TRAILING EDGES

GS EDGES  
TRAILING EDGES  
BLUNT TRAILING EDGES  
RT AIRFOILS  
BLUNT LEADING EDGES  
LEADING EDGES  
SHARP LEADING EDGES  
VORTEX FLAPS

### TRAINERS

USE TRAINING DEVICES

### TRAINING AIRCRAFT

GS TRAINING AIRCRAFT  
ALPHA JET AIRCRAFT  
CL-41 AIRCRAFT  
DH 115 AIRCRAFT  
G-91 AIRCRAFT  
JAGUAR AIRCRAFT  
JET PROVOST AIRCRAFT  
L-29 JET TRAINER

### TRAINING AIRCRAFT-(CONT.)

T-2 AIRCRAFT  
T-28 AIRCRAFT  
T-33 AIRCRAFT  
T-37 AIRCRAFT  
T-38 AIRCRAFT  
T-39 AIRCRAFT  
TS-11 AIRCRAFT  
RT ∞AIRCRAFT  
BOMBER AIRCRAFT  
FIGHTER AIRCRAFT  
GENERAL AVIATION AIRCRAFT  
JET AIRCRAFT  
LIGHT AIRCRAFT  
∞MILITARY AIRCRAFT  
∞SUBSONIC AIRCRAFT

### TRAINING DEVICES

UF AUDIO VISUAL EQUIPMENT  
TRAINERS  
GS TRAINING DEVICES  
TEACHING MACHINES  
RT ALTITUDE SIMULATION  
CHILD DEVICE  
COCKPIT SIMULATORS  
∞DEVICES  
EDUCATION  
EDUCATIONAL TELEVISION  
FLIGHT SIMULATORS  
ONBOARD EQUIPMENT  
SIMULATORS  
VISUAL AIDS

### TRAJECTORY CONTROL

UF RANGE CONTROL  
GS TRAJECTORY CONTROL  
TRAJECTORY OPTIMIZATION  
RT ATTITUDE CONTROL  
∞CONTROL  
DRIFT RATE  
GUIDANCE (MOTION)  
HOMING DEVICES  
LANDING SITES  
OPTIMAL CONTROL  
OPTIMIZATION  
POST BOOST PROPULSION SYSTEM  
RANGE SAFETY  
THRUST PROGRAMMING  
TRACKING PROBLEM

### TRAJECTORY MEASUREMENT

RT BALLISTIC CAMERAS  
BALLISTICS  
FLIGHT MECHANICS  
∞MEASUREMENT  
TELEMETRY  
TRACKING RADAR

### TRAJECTORY OPTIMIZATION

GS OPTIMIZATION  
TRAJECTORY OPTIMIZATION  
TRAJECTORY CONTROL  
TRAJECTORY OPTIMIZATION  
RT AIRCRAFT MANEUVERS  
FLIGHT MECHANICS  
FLIGHT OPTIMIZATION  
GODDARD TRAJECTORY  
DETERMINATION SYSTEM  
TRACKING PROBLEM

### TRANSALL C-160 AIRCRAFT

USE C-160 AIRCRAFT

### TRANSATMOSPHERIC VEHICLES

RT AEROSPACE PLANES  
AEROSPACE VEHICLES  
∞AIRCRAFT  
AIRCRAFT DESIGN  
NATIONAL AEROSPACE PLANE  
PROGRAM  
∞SPACECRAFT  
SPACECRAFT DESIGN  
X-30 VEHICLE

### TRANSDUCERS

GS TRANSDUCERS  
DIGITAL TRANSDUCERS  
ELECTRONIC TRANSDUCERS  
IMAGE TRANSDUCERS  
INTERDIGITAL TRANSDUCERS  
MAGNETIC TRANSDUCERS  
MODE TRANSFORMERS  
PIEZOELECTRIC TRANSDUCERS  
PIEZOELECTRIC GAGES  
PIEZORESISTIVE TRANSDUCERS

### TRANSDUCERS-(CONT.)

PIEZOELECTRIC GAGES  
PRESSURE SENSORS  
BOURDON TUBES  
QUARTZ TRANSDUCERS  
SOUND TRANSDUCERS  
ELECTROACOUSTIC TRANSDUCERS  
HYDROPHONES  
LOUDSPEAKERS  
MICROPHONES  
THERMOPILES  
TORQUERS  
ULTRASONIC WAVE TRANSDUCERS  
RT BULK ACOUSTIC WAVE DEVICES  
CONTROL EQUIPMENT  
∞CONVERTERS  
DATA CONVERTERS  
∞DETECTORS  
ENERGY CONVERSION EFFICIENCY  
EXTENSOMETERS  
FORM FACTORS  
INSTRUMENT RECEIVERS  
INSTRUMENT TRANSMITTERS  
∞INSTRUMENTS  
MEASURING INSTRUMENTS  
METEOROLOGICAL INSTRUMENTS  
PHOTOELECTRIC CELLS  
∞PROBES  
RECORDING INSTRUMENTS  
REMOTE SENSORS  
∞SENSORS  
STRAIN GAGES  
TEMPERATURE MEASURING  
INSTRUMENTS  
ULTRASONIC CLEANING  
VIBRATION METERS

### TRANSEARTH INJECTION

GS INJECTION  
TRANSEARTH INJECTION  
RT INJECTION GUIDANCE  
MIDCOURSE GUIDANCE  
ORBITAL MECHANICS  
TRANSFER ORBITS

### TRANSIENT HEATING

GS HEATING  
TRANSIENT HEATING  
PULSE HEATING  
SHOCK HEATING  
RT AERODYNAMIC HEATING

### TRANSIENT LOADS

SN (LIMITED TO FORCE LOADS)  
GS LOADS (FORCES)  
DYNAMIC LOADS  
TRANSIENT LOADS  
GUST LOADS  
IMPACT LOADS  
LANDING LOADS  
SHOCK LOADS  
BLAST LOADS  
RT AERODYNAMIC LOADS  
CONTACT LOADS  
CYCLIC LOADS  
RANDOM LOADS  
STRUCTURAL DESIGN CRITERIA

### TRANSIENT PRESSURES

GS PRESSURE  
TRANSIENT PRESSURES  
RT MASS FLOW RATE  
PRESSURE SENSORS

### TRANSIENTS (SURGES)

USE SURGES

### TRANSIT ATTITUDE CONTROL SATELLITE

UF TRAAC SATELLITE  
GS ARTIFICIAL SATELLITES  
NAVIGATION SATELLITES  
TRANSIT ATTITUDE CONTROL  
SATELLITE  
RT ∞CONTROL  
SATELLITE ATTITUDE CONTROL

### TRANSIT NAVIGATION SYSTEM

GS SATELLITE NAVIGATION SYSTEMS  
TRANSIT NAVIGATION SYSTEM  
RT NASA PROGRAMS  
NAVIGATION SATELLITES  
NOVA SATELLITES  
TRANSIT SATELLITES



**TRANSIT SATELLITES**

GS ARTIFICIAL SATELLITES  
 . NAVIGATION SATELLITES  
 . . . **TRANSIT SATELLITES**  
 RT DISCOS (SATELLITE ATTITUDE CONTROL)  
 ∞ TRANSIT  
 TRANSIT NAVIGATION SYSTEM

**TRANSITION FLIGHT**

RT AIRCRAFT MANEUVERS  
 ∞ FLIGHT  
 HORIZONTAL FLIGHT  
 HOVERING  
 V/STOL AIRCRAFT  
 VERTICAL FLIGHT

**TRANSITION FLOW**

GS FLUID FLOW  
 . GAS FLOW  
 . . MOLECULAR FLOW  
 . . . **TRANSITION FLOW**  
 RT BOUNDARY LAYER TRANSITION  
 FREE MOLECULAR FLOW  
 PERIOD DOUBLING  
 RAREFIED GAS DYNAMICS  
 SLIP FLOW

**∞ TRANSITION LAYERS**

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
 RT BOUNDARY LAYER TRANSITION  
 INTERLAYERS  
 LAMINAR FLOW  
 PLASMA LAYERS  
 SHEAR LAYERS  
 SHOCK LAYERS  
 SHOCK WAVES  
 SURFACE LAYERS  
 TURBULENT FLOW

**TRANSITION POINTS**

RT BOUNDARY LAYER TRANSITION  
 ∞ EQUILIBRIUM  
 KNUDSEN FLOW  
 PHASE DIAGRAMS  
 REYNOLDS NUMBER

**TRANSITION PRESSURE**

GS PRESSURE  
 . **TRANSITION PRESSURE**  
 RT HIGH PRESSURE  
 HYDROSTATIC PRESSURE  
 PHASE TRANSFORMATIONS  
 PRESSURE EFFECTS

**TRANSITS**

SN (EXCLUDES PARTIAL OR TOTAL OCCULTATION OF ONE BODY BY ANOTHER)  
 GS MEASURING INSTRUMENTS  
 . OPTICAL MEASURING INSTRUMENTS  
 . . **TRANSITS**  
 . . . THEODOLITES  
 . . . . CINETHEODOLITES  
 . OPTICAL EQUIPMENT  
 . OPTICAL MEASURING INSTRUMENTS  
 . . **TRANSITS**  
 . . . THEODOLITES  
 . . . . CINETHEODOLITES  
 RT COMPASSES  
 SEXTANTS  
 ∞ TRANSIT

**TRANSLUNAR INJECTION**

GS INJECTION  
 . **TRANSLUNAR INJECTION**  
 RT INJECTION GUIDANCE  
 MIDCOURSE GUIDANCE  
 ORBITAL MECHANICS  
 TRANSFER ORBITS

**TRANSMISSIONS (MACHINE ELEMENTS)**

GS MECHANICAL DRIVES  
 . **TRANSMISSIONS (MACHINE ELEMENTS)**  
 RT GEARS  
 SHAFTS (MACHINE ELEMENTS)  
 TORQUE CONVERTERS  
 TORQUE MOTORS  
 VEHICLE WHEELS

**TRANSOCEANIC FLIGHT**

RT ∞ FLIGHT

**TRANSONIC AIRCRAFT**

USE SUPERSONIC AIRCRAFT

**TRANSONIC AIRCRAFT TECHNOLOGY PROGRAM**

USE TACT PROGRAM

**TRANSONIC COMPRESSORS**

GS COMPRESSORS  
 . **TRANSONIC COMPRESSORS**  
 RT SUPERSONIC COMPRESSORS  
 TURBOCOMPRESSORS

**TRANSONIC FLIGHT**

RT ∞ FLIGHT  
 ROCKET FLIGHT  
 SONIC BOOMS  
 SUPERSONIC FLIGHT

**TRANSONIC FLOW**

UF SONIC FLOW  
 TRANSONICS  
 GS FLUID FLOW  
 . COMPRESSIBLE FLOW  
 . . **TRANSONIC FLOW**  
 RT AERODYNAMICS  
 COMPRESSIBILITY EFFECTS  
 ∞ FLOW  
 FLOW VELOCITY  
 GAS FLOW  
 NOZZLE FLOW  
 SHOCK WAVES  
 SONIC NOZZLES  
 SUBSONIC FLOW  
 SUPERSONIC FLOW  
 TRISONIC WIND TUNNELS  
 WIND TUNNELS

**TRANSONIC FLUTTER**

GS VIBRATION  
 . STRUCTURAL VIBRATION  
 . . FLUTTER  
 . . . **TRANSONIC FLUTTER**  
 . . . SELF INDUCED VIBRATION  
 . . . **TRANSONIC FLUTTER**  
 RT MISSILE VIBRATION  
 SUBSONIC FLUTTER  
 SUPERSONIC FLUTTER

**TRANSONIC INLETS**

USE SUPERSONIC INLETS

**TRANSONIC NOZZLES**

RT CONICAL NOZZLES  
 CONVERGENT-DIVERGENT NOZZLES  
 HYPERSONIC NOZZLES  
 ∞ NOZZLES  
 SONIC NOZZLES  
 SUPERSONIC NOZZLES  
 WIND TUNNEL NOZZLES

**TRANSONIC SPEED**

SN (APPROXIMATELY MACH 0.8 TO 1.2)  
 GS RATES (PER TIME)  
 . **TRANSONIC SPEED**  
 VELOCITY  
 . **TRANSONIC SPEED**  
 RT ACOUSTIC VELOCITY  
 SUBSONIC SPEED  
 SUPERSONIC SPEED

**TRANSONIC TURBINES**

USE SUPERSONIC TURBINES

**TRANSONIC WIND TUNNELS**

GS TEST FACILITIES  
 . WIND TUNNELS  
 . . **TRANSONIC WIND TUNNELS**  
 RT BLOWDOWN WIND TUNNELS  
 HYPERSONIC WIND TUNNELS  
 SLOTTED WIND TUNNELS  
 SUBSONIC WIND TUNNELS  
 SUPERSONIC WIND TUNNELS  
 WING FLOW METHOD TESTS

**TRANSONICS**

USE TRANSONIC FLOW

**TRANSPIRATION**

UF FLUID TRANSPIRATION  
 GS PHASE TRANSFORMATIONS  
 . VAPORIZING

**TRANSPIRATION-(CONT.)**

. . . EVAPORATION  
 . . . **TRANSPIRATION**  
 RT COOLING  
 COOLING SYSTEMS  
 EVANESCENCE  
 EVAPOTRANSPIRATION  
 EVOLUTION (LIBERATION)  
 GAS EVOLUTION  
 MASS TRANSFER  
 MOLECULAR FLOW  
 OUTGASSING  
 PERMEATING  
 PERSPIRATION  
 TEMPERATURE CONTROL

**TRANSPIRATION COOLING**

USE SWEAT COOLING

**TRANSPORT AIRCRAFT**

GS **TRANSPORT AIRCRAFT**  
 . ALADIN 2 AIRCRAFT  
 . AN-2 AIRCRAFT  
 . AN-22 AIRCRAFT  
 . AN-24 AIRCRAFT  
 . ARGOSY MK-1 AIRCRAFT  
 . BAC 111 AIRCRAFT  
 . BOEING 707 AIRCRAFT  
 . BOEING 720 AIRCRAFT  
 . BOEING 727 AIRCRAFT  
 . BOEING 733 AIRCRAFT  
 . BOEING 737 AIRCRAFT  
 . BOEING 747 AIRCRAFT  
 . BOEING 757 AIRCRAFT  
 . BOEING 767 AIRCRAFT  
 . BOEING 2707 AIRCRAFT  
 . CARGO AIRCRAFT  
 . BREGUET 941 AIRCRAFT  
 . C-1A AIRCRAFT  
 . C-2 AIRCRAFT  
 . C-5 AIRCRAFT  
 . C-9 AIRCRAFT  
 . C-46 AIRCRAFT  
 . C-47 AIRCRAFT  
 . C-54 AIRCRAFT  
 . C-118 AIRCRAFT  
 . C-119 AIRCRAFT  
 . C-121 AIRCRAFT  
 . C-123 AIRCRAFT  
 . C-124 AIRCRAFT  
 . C-130 AIRCRAFT  
 . C-131 AIRCRAFT  
 . C-133 AIRCRAFT  
 . C-135 AIRCRAFT  
 . C-140 AIRCRAFT  
 . C-141 AIRCRAFT  
 . C-160 AIRCRAFT  
 . CL-44 AIRCRAFT  
 . DC 3 AIRCRAFT  
 . DC 7 AIRCRAFT  
 . F-27 AIRCRAFT  
 . P-160 AIRCRAFT  
 . P-166 AIRCRAFT  
 . SPANLOADER AIRCRAFT  
 . YC-14 AIRCRAFT  
 . CH-3 HELICOPTER  
 . CH-34 HELICOPTER  
 . CH-46 HELICOPTER  
 . CH-47 HELICOPTER  
 . CH-54 HELICOPTER  
 . CL-84 AIRCRAFT  
 . CL-823 AIRCRAFT  
 . CONCORDE AIRCRAFT  
 . CV-880 AIRCRAFT  
 . DC 8 AIRCRAFT  
 . DC 9 AIRCRAFT  
 . DC 10 AIRCRAFT  
 . DH 121 AIRCRAFT  
 . DH 125 AIRCRAFT  
 . DHC 2 AIRCRAFT  
 . DHC 4 AIRCRAFT  
 . DHC 5 AIRCRAFT  
 . DO-31 AIRCRAFT  
 . EC-121 AIRCRAFT  
 . ELECTRA AIRCRAFT  
 . F-28 TRANSPORT AIRCRAFT  
 . G-1 AIRCRAFT  
 . G-222 AIRCRAFT  
 . H-19 HELICOPTER  
 . H-53 HELICOPTER  
 . H-56 HELICOPTER  
 . HC-3 HELICOPTER  
 . HFB-320 AIRCRAFT  
 . IL-14 AIRCRAFT  
 . L-1011 AIRCRAFT

## TRANSPORT COEFFICIENTS

### TRANSPORT AIRCRAFT-(CONT.)

- . L-2000 AIRCRAFT
- . LIGHT INTRATHEATER TRANSPORT
- . LIGHT TRANSPORT AIRCRAFT
- . LOCKHEED MODEL 18 AIRCRAFT
- . MH-262 AIRCRAFT
- . MYSTERE 20 AIRCRAFT
- . S-58 HELICOPTER
- . S-61 HELICOPTER
- . SA-330 HELICOPTER
- . SC-5 AIRCRAFT
- . SC-7 AIRCRAFT
- . SH-3 HELICOPTER
- . SH-4 HELICOPTER
- . SHORT HAUL AIRCRAFT
- . C-8A AUGMENTOR WING AIRCRAFT
- . CESSNA 402B AIRCRAFT
- . EUROPEAN AIRBUS
- . . . A-300 AIRCRAFT
- . . . A-310 AIRCRAFT
- . . . A-320 AIRCRAFT
- . . . MERCURE AIRCRAFT
- . . . TANKER AIRCRAFT
- . TU-124 AIRCRAFT
- . TU-144 AIRCRAFT
- . TU-154 AIRCRAFT
- . UH-34 HELICOPTER
- . UH-60A HELICOPTER
- . UH-61A HELICOPTER
- . VC-10 AIRCRAFT
- . VISCOUNT AIRCRAFT
- . XC-142 AIRCRAFT
- . YS-11 AIRCRAFT
- RT AIR TRANSPORTATION
- ∞ AIRCRAFT
- COMMERCIAL AIRCRAFT
- GENERAL AVIATION AIRCRAFT
- JET AIRCRAFT
- LIGHT AIRCRAFT
- ∞ LOW WING AIRCRAFT
- ∞ MILITARY AIRCRAFT
- MYSTERE 50 AIRCRAFT
- PASSENGER AIRCRAFT
- ROTARY WING AIRCRAFT
- ∞ SUBSONIC AIRCRAFT
- SUPERSONIC AIRCRAFT
- ∞ TRANSPORT VEHICLES
- TURBOFAN AIRCRAFT
- TURBOPROP AIRCRAFT
- UTILITY AIRCRAFT
- V/STOL AIRCRAFT
- WATER TAKEOFF AND LANDING AIRCRAFT

### TRANSPORT COEFFICIENTS

USE TRANSPORT PROPERTIES

### TRANSPORT PROPERTIES

- UF TRANSPORT COEFFICIENTS
- GS TRANSPORT PROPERTIES
- . ATMOSPHERIC CONDUCTIVITY
- . . . IONOSPHERIC CONDUCTIVITY
- . CARRIER MOBILITY
- . . . ELECTRON MOBILITY
- . . . HOLE MOBILITY
- . . . DIFFUSION COEFFICIENT
- . . . SORET COEFFICIENT
- . . . ELECTRICAL RESISTIVITY
- . . . IONOSPHERIC CONDUCTIVITY
- . . . MAGNETORESISTIVITY
- . . . PHOTOCONDUCTIVITY
- . . . PLASMA CONDUCTIVITY
- . . . SUPERCONDUCTIVITY
- . . . KONDO EFFECT
- . . . GASEOUS DIFFUSION
- . . . GASEOUS SELF-DIFFUSION
- . . . IONIC MOBILITY
- . . . THERMAL CONDUCTIVITY
- . . . THERMAL DIFFUSIVITY
- . . . VISCOSITY
- . . . EDDY VISCOSITY
- . . . GAS VISCOSITY
- RT BINARY FLUIDS
- BOLTZMANN TRANSPORT EQUATION
- ∞ CONDUCTIVITY
- DIFFUSION
- FLOW COEFFICIENTS
- HALL EFFECT
- HEAT TRANSFER
- HIGH TEMPERATURE TESTS
- KINETIC THEORY
- LIGHTHILL GAS MODEL
- MOBILITY
- ∞ PHYSICAL PROPERTIES
- POLLUTION TRANSPORT

### TRANSPORT PROPERTIES-(CONT.)

- ∞ PROPERTIES
- RADIATION TRANSPORT
- SEEBECK EFFECT
- ∞ SOLID STATE PHYSICS
- THERMOELECTRICITY

### TRANSPORT THEORY

- GS KINETIC THEORY
- . TRANSPORT THEORY
- . . . CHAPMAN-ENSKOG THEORY
- . . . EYRING THEORY
- . . . MIXING LENGTH FLOW THEORY
- RT BOLTZMANN TRANSPORT EQUATION
- DIFFUSION THEORY
- GAS TRANSPORT
- INTEGRAL EQUATIONS
- MOLECULAR INTERACTIONS
- MONTE CARLO METHOD
- POLLUTION TRANSPORT
- ∞ THEORIES

### ∞ TRANSPORT VEHICLES

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*
- RT CRAWLER TRACTORS
- GROUND EFFECT MACHINES
- RAPID TRANSIT SYSTEMS
- SHIPS
- TRANSPORT AIRCRAFT
- ∞ VEHICLES

### TRANSPORTATION

- GS TRANSPORTATION
- . AIR TRANSPORTATION
- . MARINE TRANSPORTATION
- . RAIL TRANSPORTATION
- . RAPID TRANSIT SYSTEMS
- . SPACE TRANSPORTATION
- . . . SPACE TRANSPORTATION SYSTEM
- . . . ADVANCED LAUNCH SYSTEM (STS)
- . . . URBAN TRANSPORTATION
- RT ARTIFICIAL HARBORS
- AUTOMATED GUIDEWAY TRANSIT VEHICLES
- AUTOMATED TRANSIT VEHICLES
- CARGO
- CONTRACTORS
- CONVEYORS
- DEEPWATER TERMINALS
- DELIVERY
- DISTRIBUTING
- ∞ DISTRIBUTION
- ELECTRIC AUTOMOBILES
- EVACUATING (TRANSPORTATION)
- FREIGHT COSTS
- FREIGHTERS
- HANDLING EQUIPMENT
- HAULING
- HIGHWAYS
- LOGISTICS
- MATERIALS HANDLING
- MISSILES
- MOTOR VEHICLES
- OFFSHORE DOCKING
- OFFSHORE PLATFORMS
- PACKAGING
- PASSENGERS
- PIPELINES
- RIDING QUALITY
- ROADS
- ROUTES
- SERVICES
- SITE SELECTION
- TANKER TERMINALS
- TERMINAL FACILITIES
- TRACTORS
- TRAFFIC
- TRANSCONTINENTAL SYSTEMS
- TRANSFERRING
- TRANSOCEANIC SYSTEMS
- TRANSPORTATION NETWORKS
- ∞ TRAVEL
- TRUCKS

### TRANSPORTATION ENERGY

- RT ALLOCATIONS
- CARGO
- COMMERCIAL ENERGY
- DISTRIBUTING
- DOMESTIC ENERGY
- ECONOMIC FACTORS
- ∞ ENERGY
- ENERGY CONVERSION

### TRANSPORTATION ENERGY-(CONT.)

- ENGINES
- FUELS
- HAULING
- INDUSTRIAL ENERGY
- SHIPS
- ∞ TANKERS
- TRUCKS

### TRAPEZOIDAL TAIL SURFACES

- GS PLANFORMS
- . TRAPEZOIDAL TAIL SURFACES
- TAIL SURFACES
- . TRAPEZOIDAL TAIL SURFACES
- RT CONTROL SURFACES
- HORIZONTAL TAIL SURFACES
- HYPERSONIC AIRCRAFT
- RUDDERS
- STABILIZERS (FLUID DYNAMICS)
- SUPERSONIC AIRCRAFT
- ∞ SURFACES
- SWEPTBACK TAIL SURFACES

### TRAPEZOIDAL WINGS

- GS AIRFOILS
- . WINGS
- . . . LOW ASPECT RATIO WINGS
- . . . TRAPEZOIDAL WINGS
- . . . SWEPT WINGS
- . . . SWEPT FORWARD WINGS
- . . . TRAPEZOIDAL WINGS
- . . . SWEPTBACK WINGS
- . . . TRAPEZOIDAL WINGS
- PLANFORMS
- . WING PLANFORMS
- . . . SWEPT FORWARD WINGS
- . . . TRAPEZOIDAL WINGS
- . . . SWEPTBACK WINGS
- . . . TRAPEZOIDAL WINGS

### TRAPPED VORTICES

- UF VORTEX TRAPS
- GS VORTICES
- . TRAPPED VORTICES
- RT COUNTERFLOW
- FLOW DISTRIBUTION
- MIXING
- ROTATING FLUIDS
- ROTATING LIQUIDS
- TURBULENT MIXING
- TURBULENT WAKES
- VORTEX RINGS
- VORTICITY

### ∞ TRAVEL

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*
- RT DISTANCE
- HARBORS
- LOGISTICS
- RANGE (EXTREMES)
- TRANSPORTATION

### TRESCA FLOW

- GS FLUID FLOW
- . PLASTIC FLOW
- . . . TRESCA FLOW
- RT DUCTILITY
- STABILITY
- YIELD POINT

### TRIAMINOQUANIDINENITRATE

USE TAGN

### TRIAMINOTRINITROBENZENE

USE TATB

### TRIANGULAR WINGS

USE DELTA WINGS

### TRIDENT AIRCRAFT

USE DH 121 AIRCRAFT

### TRIM (BALANCE)

USE AERODYNAMIC BALANCE

### TRITONS

- GS IONS
- . TRITONS
- RT ALPHA PARTICLES
- PROTONS

**TROCHOIDS**

USE PIVOTS

**TROJAN AIRCRAFT**

USE T-28 AIRCRAFT

**TRUCKS**

SN (EXCLUDES UNDERCARRIAGES)  
 UF VANS  
 GS SURFACE VEHICLES  
 . MOTOR VEHICLES  
 . . TRUCKS  
 . . . TANK TRUCKS  
 RT ANTISKID DEVICES  
 AUTOMOBILES  
 CARGO  
 DELIVERY  
 DOLLIES  
 ELECTRIC MOTOR VEHICLES  
 GROUND HANDLING  
 HAULING  
 MATERIALS HANDLING  
 ∞ MILITARY VEHICLES  
 RECOVERY VEHICLES  
 TRACTORS  
 TRAILERS  
 TRANSPORTATION  
 TRANSPORTATION ENERGY

**TRUNCATION (MATHEMATICS)**

USE APPROXIMATION

**TRUNCATION ERRORS**

GS ANALYSIS (MATHEMATICS)  
 . NUMERICAL ANALYSIS  
 . . TRUNCATION ERRORS  
 ERRORS  
 . TRUNCATION ERRORS  
 RT PRECISION

**TRUNNIONS**

USE SHAFTS (MACHINE ELEMENTS)

**TS-11 AIRCRAFT**

UF ISKRA AIRCRAFT  
 POLISH TS-11 AIRCRAFT  
 GS JET AIRCRAFT  
 . TS-11 AIRCRAFT  
 MONOPLANES  
 . TS-11 AIRCRAFT  
 TRAINING AIRCRAFT  
 . TS-11 AIRCRAFT  
 RT ∞ AIRCRAFT

**TSR-2 AIRCRAFT**

UF BAC TSR 2 AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . TSR-2 AIRCRAFT  
 BAC AIRCRAFT  
 . TSR-2 AIRCRAFT  
 JET AIRCRAFT  
 . TSR-2 AIRCRAFT  
 MONOPLANES  
 . TSR-2 AIRCRAFT  
 OBSERVATION AIRCRAFT  
 . TSR-2 AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 . TSR-2 AIRCRAFT  
 SUPERSONIC AIRCRAFT  
 . TSR-2 AIRCRAFT  
 TERRAIN FOLLOWING AIRCRAFT  
 . TSR-2 AIRCRAFT  
 RT ∞ AIRCRAFT

**TU-104 AIRCRAFT**

UF CAMEL AIRCRAFT  
 GS COMMERCIAL AIRCRAFT  
 . TU-104 AIRCRAFT  
 JET AIRCRAFT  
 . TU-104 AIRCRAFT  
 MONOPLANES  
 . TU-104 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . TU-104 AIRCRAFT  
 TUPOLEV AIRCRAFT  
 . TU-104 AIRCRAFT  
 RT ∞ AIRCRAFT  
 TU-154 AIRCRAFT

**TU-124 AIRCRAFT**

UF COOKPOT AIRCRAFT  
 GS COMMERCIAL AIRCRAFT  
 . TU-124 AIRCRAFT  
 JET AIRCRAFT

**TU-124 AIRCRAFT-(CONT.)**

. TU-124 AIRCRAFT  
 MONOPLANES  
 . TU-124 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . TU-124 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . TU-124 AIRCRAFT  
 TUPOLEV AIRCRAFT  
 . TU-124 AIRCRAFT  
 RT ∞ AIRCRAFT  
 TURBOFAN ENGINES

**TU-134 AIRCRAFT**

GS COMMERCIAL AIRCRAFT  
 . TU-134 AIRCRAFT  
 JET AIRCRAFT  
 . TURBOFAN AIRCRAFT  
 . . TU-134 AIRCRAFT  
 MONOPLANES  
 . TU-134 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . TU-134 AIRCRAFT  
 TUPOLEV AIRCRAFT  
 . TU-134 AIRCRAFT  
 RT ∞ AIRCRAFT

**TU-144 AIRCRAFT**

GS COMMERCIAL AIRCRAFT  
 . SUPERSONIC COMMERCIAL AIR  
 TRANSPORT  
 . . TU-144 AIRCRAFT  
 JET AIRCRAFT  
 . TURBOFAN AIRCRAFT  
 . . TU-144 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . TU-144 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . TU-144 AIRCRAFT  
 RT ∞ AIRCRAFT

**TU-154 AIRCRAFT**

GS COMMERCIAL AIRCRAFT  
 . TU-154 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . TU-154 AIRCRAFT  
 TUPOLEV AIRCRAFT  
 . TU-154 AIRCRAFT  
 RT ∞ AIRCRAFT  
 AIRCRAFT DESIGN  
 CARGO AIRCRAFT  
 JET AIRCRAFT  
 PASSENGER AIRCRAFT  
 TU-104 AIRCRAFT

**TUBE HEAT EXCHANGERS**

GS HEAT EXCHANGERS  
 . TUBE HEAT EXCHANGERS  
 RT REGENERATORS

**TUBING**

USE PIPES (TUBES)

**TUMBLING MOTION**

RT ATTITUDE STABILITY  
 DESTABILIZATION  
 MIXERS  
 ∞ MOTION  
 ROTATING ENVIRONMENTS  
 SATELLITE ROTATION  
 ∞ SEPARATION  
 SPACECRAFT MOTION  
 SPACECRAFT STABILITY

**TUNING FORK GYROSCOPES**

GS GYROSCOPES  
 . TUNING FORK GYROSCOPES  
 RT RESONATORS

**∞ TUNNELS**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED--CONSULT THE TERMS  
 LISTED BELOW)  
 RT GAPS  
 HYDRAULIC TEST TUNNELS  
 LUNAR SHELTERS  
 PASSAGEWAYS  
 STREETS  
 TRANSFER TUNNELS  
 TUNNEL CATHODES  
 TUNNEL DIODES  
 WIND TUNNELS

**TUPOLEV AIRCRAFT**

GS TUPOLEV AIRCRAFT  
 . TU-104 AIRCRAFT  
 . TU-124 AIRCRAFT  
 . TU-134 AIRCRAFT  
 . TU-154 AIRCRAFT  
 RT ∞ AIRCRAFT

**TURBIDITY**

GS ELECTROMAGNETIC PROPERTIES  
 . OPTICAL PROPERTIES  
 . . TURBIDITY  
 RT ABSORPTANCE  
 CLARITY  
 HAZE  
 LIGHT TRANSMISSION  
 OPACITY  
 OPTICAL DENSITY  
 ∞ PROPERTIES  
 SOLUBILITY  
 TRANSPARENCY

**TURBINE BLADES**

GS TURBOMACHINE BLADES  
 . TURBINE BLADES  
 RT ∞ BLADES  
 COMPRESSOR BLADES  
 ENGINE PARTS  
 FAN BLADES  
 ROTOR BLADES (TURBOMACHINERY)  
 STATOR BLADES  
 TURBINES

**TURBINE ENGINES**

GS ENGINES  
 . TURBINE ENGINES  
 . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . . RAMJET ENGINES  
 . . . . . LOW VOLUME RAMJET ENGINES  
 . . . . . PULSEJET ENGINES  
 . . . . . SUPERSONIC COMBUSTION  
 . . . . . RAMJET ENGINES  
 . . . . . TURBORAMJET ENGINES  
 . . . . . T-63 ENGINE  
 . . . . . T-76 ENGINE  
 . . . . . TURBOJET ENGINES  
 . . . . . BRISTOL-SIDDELEY OLYMPUS  
 . . . . . 593 ENGINE  
 . . . . . BRISTOL-SIDDELEY VIPER  
 . . . . . ENGINE  
 . . . . . DUCTED FAN ENGINES  
 . . . . . J-33 ENGINE  
 . . . . . J-34 ENGINE  
 . . . . . J-47 ENGINE  
 . . . . . J-52 ENGINE  
 . . . . . J-57 ENGINE  
 . . . . . J-57-P-20 ENGINE  
 . . . . . J-65 ENGINE  
 . . . . . J-69-T-25 ENGINE  
 . . . . . J-71 ENGINE  
 . . . . . J-73 ENGINE  
 . . . . . J-75 ENGINE  
 . . . . . J-79 ENGINE  
 . . . . . J-85 ENGINE  
 . . . . . J-93 ENGINE  
 . . . . . RA-28 ENGINE  
 . . . . . TURBOFAN ENGINES  
 . . . . . BRISTOL-SIDDELEY BS 53  
 . . . . . ENGINE  
 . . . . . CF-700 ENGINE  
 . . . . . CONVERTIBLE FAN-SHAFT  
 . . . . . ENGINES  
 . . . . . J-97 ENGINE  
 . . . . . TF-30 ENGINE  
 . . . . . TF-41 ENGINE  
 . . . . . TURBOPROP ENGINES  
 . . . . . T-34 ENGINE  
 . . . . . T-38 ENGINE  
 . . . . . T-53 ENGINE  
 . . . . . T-56 ENGINE  
 . . . . . T-64 ENGINE  
 . . . . . T-74 ENGINE  
 . . . . . T-78 ENGINE  
 . . . . . TURBORAMJET ENGINES  
 . . . . . T-58 ENGINE  
 . . . . . T-58-GE-8B ENGINE  
 RT AIRCRAFT ENGINES  
 AUTOMOBILE ENGINES  
 CONVERGENT NOZZLES  
 GAS BEARINGS  
 INTEGRAL ROCKET RAMJETS  
 TORPEDO ENGINES

## TURBINE EXHAUST NOZZLES

### TURBINE EXHAUST NOZZLES

- GS EXHAUST NOZZLES
  - . TURBINE EXHAUST NOZZLES
- RT CONICAL NOZZLES
  - CONVERGENT-DIVERGENT NOZZLES

### TURBINE INSTRUMENTS

- RT FLOWMETERS
  - ∞ INSTRUMENTS
  - TURBOMACHINERY

### TURBINE PUMPS

- UF TURBOPUMPS
- GS PUMPS
  - . AXIAL FLOW PUMPS
  - . TURBINE PUMPS
  - TURBOMACHINERY
  - . TURBINE PUMPS
- RT CENTRIFUGAL PUMPS
  - FUEL PUMPS
  - JET PUMPS
  - PREBURNERS
  - TURBINES
  - TURBOCOMPRESSORS

### TURBINE WHEELS

- UF ROTOR DISKS
  - TURBOROTORS
- GS ROTATING BODIES
  - . ROTORS
  - . TURBINE WHEELS
  - WHEELS
  - . TURBINE WHEELS
- RT COMPRESSOR ROTORS
  - ENGINE PARTS
  - HYDRAULIC EQUIPMENT
  - IMPELLERS
  - TURBINES
  - TURBOMACHINE BLADES
  - WATER WHEELS

### TURBINES

- GS TURBOMACHINERY
  - . TURBINES
  - . AXIAL FLOW TURBINES
  - . GAS TURBINES
  - . SHROUDED TURBINES
  - . STEAM TURBINES
  - . SUPERSONIC TURBINES
  - . TWO STAGE TURBINES
  - . WIND TURBINES
  - . TIP VANES
- RT ENGINES
  - GEOTHERMAL ENERGY CONVERSION
  - GEOTHERMAL ENERGY EXTRACTION
  - IMPELLERS
  - IMPULSE GENERATORS
  - JET ENGINE FUELS
  - JET PROPULSION
  - ∞ NOZZLES
  - REFRACTORIES
  - ROTATING GENERATORS
  - ROTORS
  - STATORS
  - TURBINE BLADES
  - TURBINE PUMPS
  - TURBINE WHEELS
  - TURBOGENERATORS
  - TURBOSHAFTS

### TURBO-SKYVAN AIRCRAFT

- USE SC-7 AIRCRAFT

### TURBOCHARGERS

- USE SUPERCHARGERS
  - TURBOCOMPRESSORS

### TURBOCOMPRESSORS

- UF AXIAL COMPRESSORS
  - AXIAL FLOW COMPRESSORS
  - MULTISTAGE COMPRESSORS
  - TURBOCHARGERS
- GS COMPRESSORS
  - . TURBOCOMPRESSORS
  - TURBOMACHINERY
  - . TURBOCOMPRESSORS
- RT CENTRIFUGAL COMPRESSORS
  - CENTRIFUGAL PUMPS
  - COMPRESSOR BLADES
  - COMPRESSOR ROTORS
  - ROTATING STALLS
  - ROTORS
  - SUPERCHARGERS
  - SUPERSONIC COMPRESSORS
  - TRANSONIC COMPRESSORS

### TURBOCOMPRESSORS-(CONT.)

- TURBINE PUMPS
- TURBOFANS

### TURBOCONVERTERS

- USE TURBOGENERATORS

### TURBOELECTRIC CONVERSION

- USE TURBOGENERATORS

### TURBOFAN AIRCRAFT

- GS JET AIRCRAFT
  - . TURBOFAN AIRCRAFT
  - . A-7 AIRCRAFT
  - . BAC 111 AIRCRAFT
  - . BOEING 707 AIRCRAFT
  - . BOEING 720 AIRCRAFT
  - . BOEING 727 AIRCRAFT
  - . BOEING 733 AIRCRAFT
  - . BOEING 737 AIRCRAFT
  - . BOEING 757 AIRCRAFT
  - . BOEING 767 AIRCRAFT
  - . C-141 AIRCRAFT
  - . CL-600 CHALLENGER AIRCRAFT
  - . CONCORDE AIRCRAFT
  - . CV-990 AIRCRAFT
  - . DC 8 AIRCRAFT
  - . DH 121 AIRCRAFT
  - . DO-31 AIRCRAFT
  - . F-28 TRANSPORT AIRCRAFT
  - . F-111 AIRCRAFT
  - . IL-62 AIRCRAFT
  - . MYSTERE 20 AIRCRAFT
  - . P-1127 AIRCRAFT
  - . P-1154 AIRCRAFT
  - . SAAB 37 AIRCRAFT
  - . SAAB 105 AIRCRAFT
  - . SE-210 AIRCRAFT
  - . TU-134 AIRCRAFT
  - . TU-144 AIRCRAFT
- RT ∞ AIRCRAFT
  - C-135 AIRCRAFT
  - ∞ LOW WING AIRCRAFT
  - MYSTERE 50 AIRCRAFT
  - PASSENGER AIRCRAFT
  - TRANSPORT AIRCRAFT
  - TURBOPROP AIRCRAFT

### TURBOFAN ENGINES

- GS ENGINES
  - . AIR BREATHING ENGINES
  - . GAS TURBINE ENGINES
  - . JET ENGINES
  - . . . . . TURBOJET ENGINES
  - . . . . . TURBOFAN ENGINES
  - . . . . . BRISTOL-SIDDELEY BS 53 ENGINE
  - . . . . . CF-700 ENGINE
  - . . . . . CONVERTIBLE FAN-SHAFT ENGINES
  - . . . . . J-97 ENGINE
  - . . . . . TF-41 ENGINE
  - . . . . . INTERNAL COMBUSTION ENGINES
  - . . . . . GAS TURBINE ENGINES
  - . . . . . JET ENGINES
  - . . . . . TURBOJET ENGINES
  - . . . . . TURBOFAN ENGINES
  - . . . . . BRISTOL-SIDDELEY BS 53 ENGINE
  - . . . . . CF-700 ENGINE
  - . . . . . CONVERTIBLE FAN-SHAFT ENGINES
  - . . . . . J-97 ENGINE
  - . . . . . TF-30 ENGINE
  - . . . . . TF-41 ENGINE
  - . . . . . TURBINE ENGINES
  - . . . . . GAS TURBINE ENGINES
  - . . . . . JET ENGINES
  - . . . . . TURBOJET ENGINES
  - . . . . . TURBOFAN ENGINES
  - . . . . . BRISTOL-SIDDELEY BS 53 ENGINE
  - . . . . . CF-700 ENGINE
  - . . . . . CONVERTIBLE FAN-SHAFT ENGINES
  - . . . . . J-97 ENGINE
  - . . . . . TF-30 ENGINE
  - . . . . . TF-41 ENGINE
- RT B-52 AIRCRAFT
  - BOEING 747 AIRCRAFT
  - BOEING 767 AIRCRAFT
  - C-5 AIRCRAFT
  - C-141 AIRCRAFT
  - DC 10 AIRCRAFT
  - DUCTED FAN ENGINES

### TURBOFAN ENGINES-(CONT.)

- L-1011 AIRCRAFT
- P-1127 AIRCRAFT
- P-1154 AIRCRAFT
- TU-124 AIRCRAFT
- TURBOFANS
- TURBOPROP ENGINES

### TURBOFANS

- GS TURBOMACHINERY
  - . TURBOFANS
- RT DUCTED FANS
  - ∞ FANS
  - LIFT FANS
  - TURBOCOMPRESSORS
  - TURBOFAN ENGINES

### TURBOGENERATORS

- UF THERMAL POWER
  - TURBOCONVERTERS
  - TURBOELECTRIC CONVERSION
- GS ELECTRIC GENERATORS
  - . ROTATING GENERATORS
  - . . . TURBOGENERATORS
  - . . . ASTEC SOLAR TURBOELECTRIC GENERATOR
  - TURBOMACHINERY
  - . TURBOGENERATORS
  - . . . ASTEC SOLAR TURBOELECTRIC GENERATOR
- RT AC GENERATORS
  - ∞ CONVERSION
  - ∞ ELECTRIC POWER
  - ELECTRICAL ENGINEERING
  - GAS TURBINE ENGINES
  - GAS TURBINES
  - ∞ GENERATORS
  - GEOTHERMAL ENERGY CONVERSION
  - GEOTHERMAL ENERGY EXTRACTION
  - GEOTHERMAL ENERGY UTILIZATION
  - HYDROELECTRIC POWER STATIONS
  - HYDROELECTRICITY
  - SNAP
  - SNAP 1
  - SNAP 2
  - SNAP 8
  - SOLAR GENERATORS
  - SPACE POWER REACTORS
  - SPACE POWER UNIT REACTORS
  - STEAM TURBINES
  - SUNFLOWER POWER SYSTEM
  - TURBINES
  - WIND TURBINES

### TURBOJET AIRCRAFT

- USE JET AIRCRAFT

### TURBOJET ENGINE CONTROL

- GS ENGINE CONTROL
  - . TURBOJET ENGINE CONTROL
- RT AIRCRAFT CONTROL
  - AUTOMATIC CONTROL
  - ∞ CONTROL
  - FLIGHT CONTROL
  - FUEL CONTROL
  - REMOTE CONTROL
  - SERVOCONTROL
  - THRUST CONTROL

### TURBOJET ENGINES

- GS ENGINES
  - . AIR BREATHING ENGINES
  - . . . GAS TURBINE ENGINES
  - . . . JET ENGINES
  - . . . . . TURBOJET ENGINES
  - . . . . . BRISTOL-SIDDELEY OLYMPUS 593 ENGINE
  - . . . . . BRISTOL-SIDDELEY VIPER ENGINE
  - . . . . . DUCTED FAN ENGINES
  - . . . . . J-33 ENGINE
  - . . . . . J-34 ENGINE
  - . . . . . J-47 ENGINE
  - . . . . . J-57 ENGINE
  - . . . . . J-57-P-20 ENGINE
  - . . . . . J-65 ENGINE
  - . . . . . J-68-T-25 ENGINE
  - . . . . . J-71 ENGINE
  - . . . . . J-73 ENGINE
  - . . . . . J-75 ENGINE
  - . . . . . J-79 ENGINE
  - . . . . . J-85 ENGINE
  - . . . . . J-93 ENGINE
  - . . . . . RA-28 ENGINE
  - . . . . . TURBOFAN ENGINES

**TURBOJET ENGINES-(CONT.)**

. . . . . BRISTOL-SIDDELEY BS 53  
     ENGINE  
 . . . . . CF-700 ENGINE  
 . . . . . CONVERTIBLE FAN-SHAFT  
     ENGINES  
     J-97 ENGINE  
     TF-41 ENGINE  
 . . . . . TURBOPROP ENGINES  
     T-53 ENGINE  
     T-56 ENGINE  
     T-64 ENGINE  
     T-74 ENGINE  
 . . . . . TURBORAMJET ENGINES  
 . . . . . INTERNAL COMBUSTION ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
 . . . . . **TURBOJET ENGINES**  
     BRISTOL-SIDDELEY OLYMPUS  
         593 ENGINE  
     BRISTOL-SIDDELEY VIPER  
         ENGINE  
     DUCTED FAN ENGINES  
         J-33 ENGINE  
         J-34 ENGINE  
         J-47 ENGINE  
         J-52 ENGINE  
         J-57 ENGINE  
         J-57-P-20 ENGINE  
         J-65 ENGINE  
         J-69-T-25 ENGINE  
         J-71 ENGINE  
         J-73 ENGINE  
         J-75 ENGINE  
         J-79 ENGINE  
         J-85 ENGINE  
         J-93 ENGINE  
         RA-28 ENGINE  
     TURBOFAN ENGINES  
     BRISTOL-SIDDELEY BS 53  
         ENGINE  
     CF-700 ENGINE  
     CONVERTIBLE FAN-SHAFT  
         ENGINES  
         J-97 ENGINE  
         TF-30 ENGINE  
         TF-41 ENGINE  
 . . . . . TURBOPROP ENGINES  
     T-34 ENGINE  
     T-38 ENGINE  
     T-53 ENGINE  
     T-56 ENGINE  
     T-64 ENGINE  
     T-74 ENGINE  
     T-78 ENGINE  
 . . . . . TURBORAMJET ENGINES  
 . . . . . TURBINE ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
 . . . . . **TURBOJET ENGINES**  
     BRISTOL-SIDDELEY OLYMPUS  
         593 ENGINE  
     BRISTOL-SIDDELEY VIPER  
         ENGINE  
     DUCTED FAN ENGINES  
         J-33 ENGINE  
         J-34 ENGINE  
         J-47 ENGINE  
         J-52 ENGINE  
         J-57 ENGINE  
         J-57-P-20 ENGINE  
         J-65 ENGINE  
         J-69-T-25 ENGINE  
         J-71 ENGINE  
         J-73 ENGINE  
         J-75 ENGINE  
         J-79 ENGINE  
         J-85 ENGINE  
         J-93 ENGINE  
         RA-28 ENGINE  
     TURBOFAN ENGINES  
     BRISTOL-SIDDELEY BS 53  
         ENGINE  
     CF-700 ENGINE  
     CONVERTIBLE FAN-SHAFT  
         ENGINES  
         J-97 ENGINE  
         TF-30 ENGINE  
         TF-41 ENGINE  
 . . . . . TURBOPROP ENGINES  
     T-34 ENGINE  
     T-38 ENGINE  
     T-53 ENGINE  
     T-56 ENGINE  
     T-64 ENGINE  
     T-74 ENGINE

**TURBOJET ENGINES-(CONT.)**

. . . . . T-78 ENGINE  
 . . . . . TURBORAMJET ENGINES  
 RT CONVERGENT NOZZLES  
     HOUND DOG MISSILE  
     JET AIRCRAFT  
     MACE MISSILES  
     QUAIL MISSILE  
     RAMJET ENGINES  
     REGULUS MISSILE

**TURBOMACHINE BLADES**

GS **TURBOMACHINE BLADES**  
     COMPRESSOR BLADES  
     ROTOR BLADES (TURBOMACHINERY)  
     STATOR BLADES  
     TURBINE BLADES  
 RT AIRFOILS  
     BLADES  
     BUCKETS  
     CASCADE FLOW  
     FAN BLADES  
     IMPELLERS  
     PADDLES  
     ROTORS  
     TURBINE WHEELS  
     VANES

**TURBOMACHINERY**

GS **TURBOMACHINERY**  
     CENTRIFUGAL COMPRESSORS  
     CENTRIFUGAL PUMPS  
     J-33 ENGINE  
     TURBINE PUMPS  
     TURBINES  
         AXIAL FLOW TURBINES  
         GAS TURBINES  
         SHROUDED TURBINES  
         STEAM TURBINES  
         SUPERSONIC TURBINES  
         TWO STAGE TURBINES  
         WIND TURBINES  
         TIP VANES  
     TURBOCOMPRESSORS  
     TURBOFANS  
     TURBOGENERATORS  
     ASTEC SOLAR TURBOELECTRIC  
         GENERATOR  
 RT BLOWERS  
     COMPRESSORS  
     MACHINERY  
     PUMPS  
     ROTATING GENERATORS  
     ROTOR DYNAMICS  
     SUPERCHARGERS  
     TURBINE INSTRUMENTS

**TURBOPROP AIRCRAFT**

GS JET AIRCRAFT  
     **TURBOPROP AIRCRAFT**  
         AN-22 AIRCRAFT  
         AN-24 AIRCRAFT  
         ARGOSY MK-1 AIRCRAFT  
         BREGUET 941 AIRCRAFT  
         BREGUET 1150 AIRCRAFT  
         C-2 AIRCRAFT  
         C-130 AIRCRAFT  
         C-133 AIRCRAFT  
         C-160 AIRCRAFT  
         CL-44 AIRCRAFT  
         CL-84 AIRCRAFT  
         DHC 5 AIRCRAFT  
         E-2 AIRCRAFT  
         ELECTRA AIRCRAFT  
         F-27 AIRCRAFT  
         G-222 AIRCRAFT  
         HS-748 AIRCRAFT  
         MH-262 AIRCRAFT  
         OV-1 AIRCRAFT  
         OV-10 AIRCRAFT  
         SC-5 AIRCRAFT  
         VISCOUNT AIRCRAFT  
         YS-11 AIRCRAFT  
 RT AIRCRAFT  
     GENERAL AVIATION AIRCRAFT  
     LOW WING AIRCRAFT  
     PASSENGER AIRCRAFT  
     SUBSONIC AIRCRAFT  
     TRANSPORT AIRCRAFT  
     TURBOFAN AIRCRAFT

**TURBOPROP ENGINES**

UF DART TURBOPROP ENGINES  
 GS ENGINES  
     AIR BREATHING ENGINES

**TURBOPROP ENGINES-(CONT.)**

. . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . **TURBOPROP ENGINES**  
     T-53 ENGINE  
     T-56 ENGINE  
     T-64 ENGINE  
     T-74 ENGINE  
 . . . . . INTERNAL COMBUSTION ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . **TURBOPROP ENGINES**  
     T-34 ENGINE  
     T-38 ENGINE  
     T-53 ENGINE  
     T-56 ENGINE  
     T-64 ENGINE  
     T-74 ENGINE  
     T-78 ENGINE  
 . . . . . TURBINE ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
 . . . . . TURBOJET ENGINES  
 . . . . . **TURBOPROP ENGINES**  
     T-34 ENGINE  
     T-38 ENGINE  
     T-53 ENGINE  
     T-56 ENGINE  
     T-64 ENGINE  
     T-74 ENGINE  
     T-78 ENGINE  
 RT C-160 AIRCRAFT  
     CONTRAROTATING PROPELLERS  
     E-2 AIRCRAFT  
     P-3 AIRCRAFT  
     PROP-FAN TECHNOLOGY  
     TURBOFAN ENGINES  
     XC-142 AIRCRAFT

**TURBOPUMPS**

USE TURBINE PUMPS

**TURBORAMJET ENGINES**

GS ENGINES  
     AIR BREATHING ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
     RAMJET ENGINES  
     **TURBORAMJET ENGINES**  
     TURBOJET ENGINES  
     **TURBORAMJET ENGINES**  
     INTERNAL COMBUSTION ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
     RAMJET ENGINES  
     **TURBORAMJET ENGINES**  
     TURBOJET ENGINES  
     **TURBORAMJET ENGINES**  
     TURBINE ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
     RAMJET ENGINES  
     **TURBORAMJET ENGINES**  
     TURBOJET ENGINES  
     **TURBORAMJET ENGINES**  
     TURBINE ENGINES  
     GAS TURBINE ENGINES  
     JET ENGINES  
     RAMJET ENGINES  
     **TURBORAMJET ENGINES**  
     TURBOJET ENGINES  
     **TURBORAMJET ENGINES**

**TURBOROCKET ENGINES**

GS ENGINES  
     ROCKET ENGINES  
     **TURBOROCKET ENGINES**  
     TORPEDO ENGINES  
 RT **TURBOROCKET ENGINES**  
     BOOSTER ROCKET ENGINES  
     HYDRAZINE ENGINES  
     HYDROGEN OXYGEN ENGINES  
     LIQUID AIR CYCLE ENGINES  
     RESTARTABLE ROCKET ENGINES  
     SUSTAINER ROCKET ENGINES

**TURBOROTORS**

USE TURBINE WHEELS

**TURBOSHAFTS**

GS SHAFTS (MACHINE ELEMENTS)  
     ROTATING SHAFTS  
     **TURBOSHAFTS**  
 RT CONVERTIBLE FAN-SHAFT ENGINES  
     ROTORS  
     TURBINES

**TURBULENCE**

GS **TURBULENCE**  
     ATMOSPHERIC TURBULENCE

## TURBULENCE EFFECTS

### TURBULENCE-(CONT.)

- .. CLEAR AIR TURBULENCE
- .. GUSTS
- .. LOW LEVEL TURBULENCE
- .. HOMOGENEOUS TURBULENCE
- .. ISOTROPIC TURBULENCE
- .. LOW TURBULENCE
- .. MAGNETOHYDRODYNAMIC TURBULENCE
- .. PLASMA TURBULENCE
- RT AERODYNAMIC DRAG
- ATMOSPHERIC EFFECTS
- BACKWASH
- BOUNDARY LAYER CONTROL
- BOUNDARY LAYER TRANSITION
- FLOW CHARACTERISTICS
- FLUID DYNAMICS
- GAS STREAMS
- MICROMETEOROLOGY
- MIXING
- ∞ MOTION
- NONUNIFORMITY
- PANEL METHOD (FLUID DYNAMICS)
- PERIOD DOUBLING
- SEA ROUGHNESS
- SLIPSTREAMS
- STEADY FLOW
- STRANGE ATTRACTORS
- STROUHAL NUMBER
- SURFACE NOISE INTERACTIONS
- TURBULENT BOUNDARY LAYER
- TURBULENT FLOW
- UNSTEADY FLOW
- VERTICAL AIR CURRENTS
- VORTEX FILAMENTS
- VORTICES
- VORTICITY
- WAKES
- WIND EFFECTS

### TURBULENCE EFFECTS

- RT AERODYNAMIC STABILITY
- BUFFETING
- ∞ EFFECTS
- FLUTTER
- SEEING (ASTRONOMY)
- SEPARATED FLOW

### TURBULENCE METERS

- UF HOT-WIRE TURBULENCE METERS
- GS MEASURING INSTRUMENTS
- .. TURBULENCE METERS
- RT HOT-WIRE FLOWMETERS

### TURBULENCE MODELS

- GS MODELS
- .. MATHEMATICAL MODELS
- .. TURBULENCE MODELS
- .. K-EPSILON TURBULENCE MODEL
- RT COMPUTATIONAL FLUID DYNAMICS
- FLOW EQUATIONS
- MIXING LENGTH FLOW THEORY
- RENORMALIZATION GROUP METHODS
- TURBULENT BOUNDARY LAYER
- TURBULENT FLOW

### TURBULENT BOUNDARY LAYER

- GS BOUNDARY LAYERS
- .. TURBULENT BOUNDARY LAYER
- RT BOUNDARY LAYER TRANSITION
- COMPRESSIBLE BOUNDARY LAYER
- EKMAN LAYER
- HYPERSONIC BOUNDARY LAYER
- INCOMPRESSIBLE BOUNDARY LAYER
- K-EPSILON TURBULENCE MODEL
- LAMINAR BOUNDARY LAYER
- ∞ LAYERS
- MIXING LAYERS (FLUIDS)
- REYNOLDS STRESS
- RIBLETS
- SUPERSONIC BOUNDARY LAYERS
- THERMAL BOUNDARY LAYER
- THREE DIMENSIONAL BOUNDARY LAYER
- TURBULENCE
- TURBULENCE MODELS
- TWO DIMENSIONAL BOUNDARY LAYER

### TURBULENT FLOW

- GS FLUID FLOW
- .. TURBULENT FLOW
- .. CAVITATION FLOW
- .. SUPERCavitating FLOW
- RT AERODYNAMIC INTERFERENCE
- AERODYNAMICS
- ANNULAR FLOW

### TURBULENT FLOW-(CONT.)

- ATMOSPHERIC TURBULENCE
- BLASIUS FLOW
- BOUNDARY LAYER TRANSITION
- CLOSURE LAW
- COMBUSTIBLE FLOW
- COUNTERFLOW
- CRITICAL FLOW
- EDDY VISCOSITY
- FLOW CHARACTERISTICS
- FLOW STABILITY
- FLUID AMPLIFIERS
- FLUID DYNAMICS
- FREE CONVECTION
- GAS FLOW
- GUST ALLEVIATORS
- INVISCID FLOW
- ISOTROPIC TURBULENCE
- K-EPSILON TURBULENCE MODEL
- KOLMOGOROFF THEORY
- LAGRANGE SIMILARITY HYPOTHESIS
- LAMINAR FLOW
- LIQUID FLOW
- MASS FLOW
- MIXING LENGTH FLOW THEORY
- MULTIPHASE FLOW
- NONUNIFORM FLOW
- OPEN CHANNEL FLOW
- ORIFICE FLOW
- PARTICLE LADEN JETS
- PERIOD DOUBLING
- PIPE FLOW
- PRESSURE OSCILLATIONS
- RECIRCULATIVE FLUID FLOW
- REYNOLDS NUMBER
- REYNOLDS STRESS
- ROTATING FLUIDS
- SINGLE-PHASE FLOW
- STEADY FLOW
- STEAM FLOW
- SUBCRITICAL FLOW
- SUPERCRITICAL FLOW
- TOLLMEN-SCHLICHTING WAVES
- ∞ TRANSITION LAYERS
- TURBULENCE
- TURBULENCE MODELS
- TWO PHASE FLOW
- UNIFORM FLOW
- VISCOUS DRAG
- VISCOUS FLOW
- VORTEX AVOIDANCE
- VORTEX BREAKDOWN
- VORTICES
- VORTICITY TRANSPORT HYPOTHESIS

### TURBULENT HEAT TRANSFER

- GS TRANSMISSION
- .. HEAT TRANSMISSION
- .. HEAT TRANSFER
- .. TURBULENT HEAT TRANSFER
- RT AERODYNAMIC HEAT TRANSFER
- CONVECTIVE HEAT TRANSFER
- LAMINAR HEAT TRANSFER
- THERMOHYDRAULICS

### TURBULENT JETS

- RT FLUID AMPLIFIERS
- JET STREAMS (METEOROLOGY)
- ∞ JETS

### TURBULENT MIXING

- GS MIXING
- .. TURBULENT MIXING
- RT AGITATION
- LAMINAR MIXING
- MIXING LAYERS (FLUIDS)
- MIXING LENGTH FLOW THEORY
- RECIRCULATIVE FLUID FLOW
- TRAPPED VORTICES
- VORTICES

### TURBULENT WAKES

- UF SWIRLING WAKES
- GS WAKES
- .. TURBULENT WAKES
- .. SLIPSTREAMS
- .. PROPELLER SLIPSTREAMS
- RT AIRCRAFT WAKES
- LAMINAR WAKES
- TRAPPED VORTICES
- VORTEX ADVISORY SYSTEM
- VORTEX SHEETS
- VORTEX STREETS

### TURNING FLIGHT

- UF BANKING FLIGHT
- GS TURNING FLIGHT
- .. MINOR CIRCLE TURNING FLIGHT
- RT AERODYNAMIC BALANCE
- AIRCRAFT MANEUVERS
- AIRCRAFT STABILITY
- CLIMBING FLIGHT
- ∞ FLIGHT
- FLIGHT PATHS
- HORIZONTAL FLIGHT
- LATERAL OSCILLATION
- LATERAL STABILITY
- MANEUVERS
- MOMENTUM
- ROLL
- YAW

### TUTOR AIRCRAFT

- USE CL-41 AIRCRAFT

### TVC (CONTROL)

- USE THRUST VECTOR CONTROL

### TWISTED WINGS

- GS AIRFOILS
- .. WINGS
- .. TWISTED WINGS
- RT CAMBERED WINGS
- FIXED WINGS
- FLEXIBLE WINGS
- RING WINGS
- UNCAMBERED WINGS

### TWO DIMENSIONAL BODIES

- RT ∞ BODIES
- ∞ CROSS SECTIONS
- DUCTED BODIES
- MATHEMATICAL MODELS
- ∞ SURFACES

### TWO DIMENSIONAL BOUNDARY LAYER

- GS BOUNDARY LAYERS
- .. TWO DIMENSIONAL BOUNDARY LAYER
- RT LAMINAR BOUNDARY LAYER
- SUPERSONIC BOUNDARY LAYERS
- TURBULENT BOUNDARY LAYER

### TWO DIMENSIONAL FLOW

- GS FLUID FLOW
- .. TWO DIMENSIONAL FLOW
- .. COUETTE FLOW
- RT AXIAL FLOW
- BLASIUS FLOW
- CAPILLARY WAVES
- COAXIAL FLOW
- FLOW GEOMETRY
- HARTMANN FLOW
- ONE DIMENSIONAL FLOW
- PRANDTL-MEYER EXPANSION
- RADIAL FLOW
- RAYLEIGH WAVES
- STEADY FLOW
- STREAM FUNCTIONS (FLUIDS)
- TAYLOR INSTABILITY
- THREE DIMENSIONAL FLOW
- WALL FLOW
- WEDGE FLOW

### TWO DIMENSIONAL JETS

- RT JET FLOW
- JET MIXING FLOW
- ∞ JETS
- WALL FLOW

### TWO DIMENSIONAL MODELS

- GS MODELS
- .. TWO DIMENSIONAL MODELS
- RT COMPUTERIZED SIMULATION
- MATHEMATICAL MODELS
- THREE DIMENSIONAL MODELS

### TWO FLUID MODELS

- RT BOLTZMANN DISTRIBUTION
- LIQUID HELIUM
- MAGNETOHYDRODYNAMIC FLOW
- MIXING LAYERS (FLUIDS)
- ROTATING PLASMAS
- SHOCK WAVE PROPAGATION
- SUPERFLUIDITY

### TWO PHASE FLOW

- GS FLUID FLOW

# UNDAMPED OSCILLATIONS

## TWO PHASE FLOW-(CONT.)

- . MULTIPHASE FLOW
- . . . TWO PHASE FLOW
- RT . GAS FLOW
- . LAMINAR FLOW
- . LIQUID FLOW
- . . . PRESSURE DROP
- . . . SINGLE-PHASE FLOW
- . SOLIDS FLOW
- . TURBULENT FLOW

## TWO STAGE TURBINES

- GS . TURBOMACHINERY
- . TURBINES
- . . . TWO STAGE TURBINES
- RT . GAS TURBINE ENGINES
- . GAS TURBINES
- . STEAM TURBINES

## T2J AIRCRAFT

- USE . T-2 AIRCRAFT

## T3J AIRCRAFT

- USE . T-39 AIRCRAFT

# U

## U TUBES

- USE . MANOMETERS

## U-2 AIRCRAFT

- UF . LOCKHEED U-2 AIRCRAFT
- . WU-2 AIRCRAFT
- GS . JET AIRCRAFT
- . . . U-2 AIRCRAFT
- . LOCKHEED AIRCRAFT
- . . . U-2 AIRCRAFT
- . MONOPLANES
- . . . U-2 AIRCRAFT
- . OBSERVATION AIRCRAFT
- . . . U-2 AIRCRAFT
- . RECONNAISSANCE AIRCRAFT
- . . . U-2 AIRCRAFT
- . RESEARCH AIRCRAFT
- . . . U-2 AIRCRAFT
- . UTILITY AIRCRAFT
- . . . U-2 AIRCRAFT
- RT . . . AIRCRAFT

## UFO

- USE . UNIDENTIFIED FLYING OBJECTS

## UH-1 HELICOPTER

- UF . HU-1 HELICOPTER
- . IROQUOIS HELICOPTER
- . RH-2 HELICOPTER
- . YUH-1 HELICOPTER
- . YUH-1 HELICOPTER
- GS . BELL AIRCRAFT
- . . . UH-1 HELICOPTER
- . UTILITY AIRCRAFT
- . . . UH-1 HELICOPTER
- . V/STOL AIRCRAFT
- . . . ROTARY WING AIRCRAFT
- . . . HELICOPTERS
- . . . . MILITARY HELICOPTERS
- . . . . UH-1 HELICOPTER
- RT . UH-60A HELICOPTER
- . UH-61A HELICOPTER

## UH-2 HELICOPTER

- UF . HU2K-1 HELICOPTER
- . KAMAN UH-2A HELICOPTER
- . SEASPRITE HELICOPTER
- GS . KAMAN AIRCRAFT
- . . . UH-2 HELICOPTER
- . UTILITY AIRCRAFT
- . . . UH-2 HELICOPTER
- . V/STOL AIRCRAFT
- . . . ROTARY WING AIRCRAFT
- . . . HELICOPTERS
- . . . . MILITARY HELICOPTERS
- . . . . UH-2 HELICOPTER

## UH-34 HELICOPTER

- UF . HUS-1 HELICOPTER
- . SEAHORSE HELICOPTER
- GS . SIKORSKY AIRCRAFT
- . . . UH-34 HELICOPTER
- . TRANSPORT AIRCRAFT
- . . . UH-34 HELICOPTER

## UH-34 HELICOPTER-(CONT.)

- . UTILITY AIRCRAFT
- . . . UH-34 HELICOPTER
- . V/STOL AIRCRAFT
- . . . ROTARY WING AIRCRAFT
- . . . HELICOPTERS
- . . . . MILITARY HELICOPTERS
- . . . . UH-34 HELICOPTER
- RT . S-58 HELICOPTER

## UH-60A HELICOPTER

- UF . YUH-60A HELICOPTER
- . SIKORSKY AIRCRAFT
- GS . . . UH-60A HELICOPTER
- . TRANSPORT AIRCRAFT
- . . . UH-60A HELICOPTER
- . UTILITY AIRCRAFT
- . . . UH-60A HELICOPTER
- . V/STOL AIRCRAFT
- . . . ROTARY WING AIRCRAFT
- . . . HELICOPTERS
- . . . . MILITARY HELICOPTERS
- . . . . UH-60A HELICOPTER
- RT . HELICOPTER DESIGN
- . UH-1 HELICOPTER

## UH-61A HELICOPTER

- UF . YUH-61A HELICOPTER
- . SIKORSKY AIRCRAFT
- GS . . . UH-61A HELICOPTER
- . TRANSPORT AIRCRAFT
- . . . UH-61A HELICOPTER
- . UTILITY AIRCRAFT
- . . . UH-61A HELICOPTER
- . V/STOL AIRCRAFT
- . . . ROTARY WING AIRCRAFT
- . . . HELICOPTERS
- . . . . MILITARY HELICOPTERS
- . . . . UH-61A HELICOPTER
- RT . HELICOPTER DESIGN
- . UH-1 HELICOPTER

## ULLAGE

- RT . FUEL TANK PRESSURIZATION
- . FUEL TANKS
- . INTERFACE STABILITY
- . LIQUID SLOSHING
- . PROPELLANT TANKS
- . SPLASHING
- . TANK GEOMETRY
- . ULLAGE ROCKET ENGINES

## ULLAGE ROCKET ENGINES

- GS . ENGINES
- . . . ROCKET ENGINES
- . . . ULLAGE ROCKET ENGINES
- . . . TORPEDO ENGINES
- . . . ULLAGE ROCKET ENGINES
- RT . SOLID PROPELLANT ROCKET ENGINES
- . ULLAGE

## ULTRALIGHT AIRCRAFT

- RT . . . AIRCRAFT
- . HANG GLIDERS
- . LIGHT AIRCRAFT
- . MAN POWERED AIRCRAFT
- . . . WINGED VEHICLES

## ULTRALOW TEMPERATURE

- USE . CRYOGENIC TEMPERATURE

## ULTRASONIC CLEANING

- GS . CLEANING
- . . . ULTRASONIC CLEANING
- RT . ACOUSTICS
- . CAVITATION FLOW
- . CLEANERS
- . ETCHING
- . FLUID FLOW
- . GRINDING MACHINES
- . MACHINE TOOLS
- . PIEZOELECTRIC TRANSDUCERS
- . POLISHING
- . TOOLS
- . TRANSDUCERS
- . ULTRASONICS

## ULTRASONIC TESTS

- RT . ACOUSTIC MEASUREMENT
- . ACOUSTIC SOUNDING
- . DYNAMIC MODULUS OF ELASTICITY
- . LAMB WAVES
- . . . MATERIALS TESTS
- . . . NONDESTRUCTIVE TESTS
- . . . SH WAVES

## ULTRASONIC TESTS-(CONT.)

- . . . TESTS
- . . . ULTRASONICS

## ULTRASONIC WAVE TRANSDUCERS

- GS . TRANSDUCERS
- . . . ULTRASONIC WAVE TRANSDUCERS
- RT . ELECTROACOUSTICS
- . ELECTRONIC TRANSDUCERS
- . MICROPHONES
- . PRESSURE SENSORS
- . SONAR
- . SURFACE ACOUSTIC WAVE DEVICES
- . ULTRASONICS
- . UNDERWATER ACOUSTICS

## ULTRAVIOLET PHOTOGRAPHY

- GS . PHOTOGRAPHY
- . . . ULTRAVIOLET PHOTOGRAPHY
- RT . AERIAL PHOTOGRAPHY
- . CAMERAS
- . COLOR PHOTOGRAPHY
- . FAINT OBJECT CAMERA
- . INFRARED PHOTOGRAPHY
- . RADAR PHOTOGRAPHY

## ULTRAVIOLET SPECTROGRAPHS

- USE . ULTRAVIOLET SPECTROMETERS

## ULTRAVIOLET SPECTROMETERS

- UF . ULTRAVIOLET SPECTROGRAPHS
- . MEASURING INSTRUMENTS
- GS . . . OPTICAL MEASURING INSTRUMENTS
- . . . PHOTOMETERS
- . . . . ULTRAVIOLET SPECTROMETERS
- . . . . TOTAL OZONE MAPPING
- . . . . SPECTROMETER
- . . . RADIATION MEASURING INSTRUMENTS
- . . . ACTINOMETERS
- . . . ULTRAVIOLET DETECTORS
- . . . . ULTRAVIOLET SPECTROMETERS
- . . . . TOTAL OZONE MAPPING
- . . . . SPECTROMETER
- . . . PHOTOMETERS
- . . . . ULTRAVIOLET SPECTROMETERS
- . . . . TOTAL OZONE MAPPING
- . . . . SPECTROMETER
- . . . SPECTROMETERS
- . . . . ULTRAVIOLET SPECTROMETERS
- . . . . HIGH DISPERSION
- . . . . SPECTROGRAPHS
- . . . . TOTAL OZONE MAPPING
- . . . . SPECTROMETER
- . . . OPTICAL EQUIPMENT
- . . . OPTICAL MEASURING INSTRUMENTS
- . . . PHOTOMETERS
- . . . . ULTRAVIOLET SPECTROMETERS
- . . . . TOTAL OZONE MAPPING
- . . . . SPECTROMETER
- RT . EBERT SPECTROMETERS
- . SOLAR MAXIMUM MISSION
- . SOLAR SPECTROMETERS

## UNCAMBERED WINGS

- GS . AIRFOILS
- . . . WINGS
- . . . . UNCAMBERED WINGS
- . . . . RING WINGS
- RT . CAMBERED WINGS
- . FIXED WINGS
- . THIN WINGS
- . TWISTED WINGS

## UNCONTROLLED REENTRY (SPACECRAFT)

- GS . ATMOSPHERIC ENTRY
- . . . REENTRY
- . . . . HYPERSONIC REENTRY
- . . . . UNCONTROLLED REENTRY
- . . . . (SPACECRAFT)
- . . . SPACECRAFT REENTRY
- . . . . UNCONTROLLED REENTRY
- . . . . (SPACECRAFT)
- RT . AERODYNAMIC HEATING
- . COSMOS 954 SATELLITE
- . DESCENT
- . FLIGHT PATHS
- . PLASMA SHEATHS
- . SPACECRAFT BREAKUP
- . SPACECRAFT SURVIVABILITY

## UNDAMPED OSCILLATIONS

- GS . OSCILLATIONS
- . . . UNDAMPED OSCILLATIONS
- RT . AIRFOIL OSCILLATIONS
- . FLAPPING

## UNDER SURFACE BLOWING

### UNDAMPED OSCILLATIONS-(CONT.)

FLUTTER  
RESONANT VIBRATION  
STABLE OSCILLATIONS  
WING OSCILLATIONS

### UNDER SURFACE BLOWING

GS BLOWING  
RT UNDER SURFACE BLOWING  
AERODYNAMIC CHARACTERISTICS  
AIRCRAFT CONFIGURATIONS  
CIRCULATION CONTROL AIRFOILS  
LIFT  
∞ SURFACES  
UPPER SURFACE BLOWING

### UNDERGROUND ACOUSTICS

RT ACOUSTIC SOUNDING  
EXPLORATION  
MINERALS  
STRATA

### UNDERWATER PROPULSION

GS PROPULSION  
MARINE PROPULSION  
UNDERWATER PROPULSION  
SUBMARINE PROPULSION  
RT AEROQUATIC VEHICLES  
CHEMICAL PROPULSION  
ELECTRIC PROPULSION  
NUCLEAR PROPULSION  
PROPELLER DRIVE  
TORPEDO ENGINES

### UNDERWATER RESEARCH LABORATORIES

GS LABORATORIES  
UNDERWATER RESEARCH  
LABORATORIES  
RESEARCH VEHICLES  
UNDERWATER RESEARCH  
LABORATORIES  
SUBMERGED BODIES  
UNDERWATER RESEARCH  
LABORATORIES  
WATER VEHICLES  
UNDERWATER VEHICLES  
UNDERWATER RESEARCH  
LABORATORIES  
RT BATHYMETERS  
OCEAN DATA ACQUISITIONS SYSTEMS  
OCEANOGRAPHY

### UNDERWATER TO SURFACE MISSILES

GS MISSILES  
UNDERWATER TO SURFACE MISSILES  
SUBROC MISSILE  
RT ∞ SURFACES

### UNDERWATER TRAJECTORIES

GS TRAJECTORIES  
UNDERWATER TRAJECTORIES  
RT ANTISUBMARINE WARFARE  
HYDROBALLISTICS  
MISSILE TRAJECTORIES  
SUBROC MISSILE  
TORPEDOES

### UNDERWATER VEHICLES

GS WATER VEHICLES  
UNDERWATER VEHICLES  
SUBMARINES  
BALLISTIC MISSILE SUBMARINES  
GUIDED MISSILE SUBMARINES  
TRIDENT SUBMARINE  
UNDERWATER RESEARCH  
LABORATORIES  
RT AEROQUATIC VEHICLES  
BOATS  
MILITARY VEHICLES  
RESEARCH VEHICLES  
SHIPS  
SUBMERGED BODIES  
SURFACE VEHICLES  
VEHICLES

### UNIDENTIFIED FLYING OBJECTS

UF UFO  
RT AIRCRAFT  
EXTRATERRESTRIAL INTELLIGENCE  
SPACECRAFT  
VEHICLES

### UNIFORM FLOW

GS FLUID FLOW

### UNIFORM FLOW-(CONT.)

UNIFORM FLOW  
BLASIUS FLOW  
RT AERODYNAMICS  
FLUID DYNAMICS  
GAS FLOW  
HEAT TRANSMISSION  
LAMINAR FLOW  
LIQUID FLOW  
MASS FLOW  
MULTIPHASE FLOW  
NONUNIFORM FLOW  
PIPE FLOW  
PRESSURE GRADIENTS  
QUASI-STEADY STATES  
SINGLE-PHASE FLOW  
SOLIDS FLOW  
STEADY FLOW  
STEAM FLOW  
SUBCRITICAL FLOW  
TURBULENT FLOW  
UNSTEADY FLOW

### UNIPHASE FLOW

USE SINGLE-PHASE FLOW

### UNIQUENESS THEOREM

GS THEOREMS  
UNIQUENESS THEOREM  
RT ALGEBRA  
COMPLEX VARIABLES  
GEOMETRY  
NUMBER THEORY  
PROBABILITY THEORY  
REAL VARIABLES

### UNLOADING

RT DISCHARGE  
DISPOSAL  
DUMPING  
EJECTION  
EMPTYING  
EVACUATING (TRANSPORTATION)  
EXPULSION  
LOADING OPERATIONS  
MATERIALS HANDLING  
RELEASING  
REMOVAL  
SPREADING

### UNMANNED SPACECRAFT

GS UNMANNED SPACECRAFT  
ECHO 2 SATELLITE  
HEAO 1  
HEAO 2  
HEAO 3  
HOTOL LAUNCH VEHICLE  
PIONEER VENUS SPACECRAFT  
PIONEER VENUS 1 SPACECRAFT  
PIONEER VENUS 2 SPACECRAFT  
PIONEER VENUS 2 TRANSPORTER  
BUS  
SPACE PROBES  
EXPLORER 18 SATELLITE  
GIOTTO MISSION  
JUPITER PROBES  
GALILEO PROBE  
GALILEO SPACECRAFT  
LUNAR PROBES  
LUNIK LUNAR PROBES  
LUNIK 2 LUNAR PROBE  
LUNIK 3 LUNAR PROBE  
LUNIK 9 LUNAR PROBE  
LUNIK 10 LUNAR PROBE  
LUNIK 11 LUNAR PROBE  
LUNIK 12 LUNAR PROBE  
LUNIK 13 LUNAR PROBE  
LUNIK 14 LUNAR PROBE  
LUNIK 16 LUNAR PROBE  
LUNIK 17 LUNAR PROBE  
LUNIK 19 LUNAR PROBE  
LUNIK 20 LUNAR PROBE  
LUNIK 22 LUNAR PROBE  
RANGER LUNAR PROBES  
RANGER LUNAR LANDING  
VEHICLES  
RANGER 1 LUNAR PROBE  
RANGER 2 LUNAR PROBE  
RANGER 3 LUNAR PROBE  
RANGER 4 LUNAR PROBE  
RANGER 5 LUNAR PROBE  
RANGER 6 LUNAR PROBE  
RANGER 7 LUNAR PROBE  
RANGER 8 LUNAR PROBE  
RANGER 9 LUNAR PROBE

### UNMANNED SPACECRAFT-(CONT.)

SURVEYOR LUNAR PROBES  
SURVEYOR 1 LUNAR PROBE  
SURVEYOR 2 LUNAR PROBE  
SURVEYOR 3 LUNAR PROBE  
SURVEYOR 4 LUNAR PROBE  
SURVEYOR 5 LUNAR PROBE  
SURVEYOR 6 LUNAR PROBE  
SURVEYOR 7 LUNAR PROBE  
MARINER SPACE PROBES  
MARINER R 2 SPACE PROBE  
MARINER 1 SPACE PROBE  
MARINER 2 SPACE PROBE  
MARINER 3 SPACE PROBE  
MARINER 4 SPACE PROBE  
MARINER 5 SPACE PROBE  
MARINER 6 SPACE PROBE  
MARINER 7 SPACE PROBE  
MARINER 8 SPACE PROBE  
MARINER 9 SPACE PROBE  
MARINER 10 SPACE PROBE  
MARINER 11 SPACE PROBE  
MARINER SPACECRAFT  
MARINER C SPACECRAFT  
MARINER VENUS 67 SPACECRAFT  
MARS PROBES  
ADVANCED RECONN ELECTRIC  
SPACECRAFT  
MARINER 3 SPACE PROBE  
MARINER 4 SPACE PROBE  
MARINER 6 SPACE PROBE  
MARINER 7 SPACE PROBE  
MARINER 8 SPACE PROBE  
MARINER 9 SPACE PROBE  
MARS OBSERVER  
MARS 1 SPACECRAFT  
MARS 2 SPACECRAFT  
MARS 3 SPACECRAFT  
MARS 4 SPACECRAFT  
MARS 5 SPACECRAFT  
MARS 6 SPACECRAFT  
MARS 7 SPACECRAFT  
VIKING SPACECRAFT  
VIKING LANDER SPACECRAFT  
VIKING LANDER 1  
VIKING LANDER 2  
VIKING ORBITER SPACECRAFT  
VIKING ORBITER 1  
VIKING ORBITER 2  
VIKING ORBITER 1975  
VIKING 1 SPACECRAFT  
VIKING LANDER 1  
VIKING ORBITER 1  
VIKING 2 SPACECRAFT  
VIKING LANDER 2  
VIKING ORBITER 2  
ZOND 2 SPACE PROBE  
PIONEER SPACE PROBES  
PIONEER VENUS 2 ENTRY PROBES  
PIONEER VENUS 2 NIGHT PROBE  
PIONEER VENUS 2 SOUNDER  
PROBE  
PIONEER 1 SPACE PROBE  
PIONEER 2 SPACE PROBE  
PIONEER 3 SPACE PROBE  
PIONEER 4 SPACE PROBE  
PIONEER 5 SPACE PROBE  
PIONEER 6 SPACE PROBE  
PIONEER 7 SPACE PROBE  
PIONEER 8 SPACE PROBE  
PIONEER 9 SPACE PROBE  
PIONEER 10 SPACE PROBE  
PIONEER 11 SPACE PROBE  
SOLAR PROBES  
HELIOS A  
HELIOS B  
HELIOS 1  
HELIOS 2  
STARPROBE SPACECRAFT  
SUNBLAZER SPACE PROBE  
VENUS PROBES  
MAGELLAN SPACECRAFT (NASA)  
MARINER 1 SPACE PROBE  
MARINER 2 SPACE PROBE  
MARINER 5 SPACE PROBE  
MARINER 10 SPACE PROBE  
VENERA SATELLITES  
VENERA 2 SATELLITE  
VENERA 3 SATELLITE  
VENERA 4 SATELLITE  
VENERA 5 SATELLITE  
VENERA 6 SATELLITE  
VENERA 7 SATELLITE  
VENERA 8 SATELLITE  
VENERA 9 SATELLITE  
VENERA 10 SATELLITE



# UNMANNED SPACECRAFT-(CONT.)

. . . . . VENERA 11 SATELLITE  
 . . . . . VENERA 12 SATELLITE  
 . . . . . ZOND 1 SPACE PROBE  
 . . . . . ZOND 3 SPACE PROBE  
 . . . . . ZOND 4 SPACE PROBE  
 . . . . . ZOND 5 SPACE PROBE  
 . . . . . ZOND 6 SPACE PROBE  
 . . . . . ZOND 7 SPACE PROBE  
 . . . . . ZOND 8 SPACE PROBE  
 . . . . . VOYAGER 1 SPACECRAFT  
 . . . . . VOYAGER 2 SPACECRAFT  
 . . . . . TECHNOLOGY FEASIBILITY SPACECRAFT  
 . . . . . ZOND SPACE PROBES  
 . . . . . ZOND 1 SPACE PROBE  
 . . . . . ZOND 2 SPACE PROBE  
 . . . . . ZOND 3 SPACE PROBE  
 . . . . . ZOND 4 SPACE PROBE  
 . . . . . ZOND 5 SPACE PROBE  
 . . . . . ZOND 6 SPACE PROBE  
 . . . . . ZOND 7 SPACE PROBE  
 . . . . . ZOND 8 SPACE PROBE  
 RT ARTIFICIAL SATELLITES  
 COMMUNICATION SATELLITES  
 GEOPHYSICAL SATELLITES  
 GRAVITY GRADIENT SATELLITES  
 INFLATABLE SPACECRAFT  
 INTERPLANETARY SPACECRAFT  
 LUNAR LANDING MODULES  
 LUNAR SATELLITES  
 LUNAR SPACECRAFT  
 MANNED SPACECRAFT  
 MARINER PROGRAM  
 METEOROLOGICAL SATELLITES  
 MILITARY SPACECRAFT  
 RECONNAISSANCE SPACECRAFT  
 RECOVERABLE SPACECRAFT  
 RENDEZVOUS SPACECRAFT  
 REUSABLE SPACECRAFT  
 SIRS B SATELLITE  
 SPACE CAPSULES  
 ∞ SPACECRAFT  
 VOYAGER PROJECT

# UNSTEADY AERODYNAMICS

GS FLUID MECHANICS  
 . . . FLUID DYNAMICS  
 . . . GAS DYNAMICS  
 . . . AERODYNAMICS  
 . . . . . UNSTEADY AERODYNAMICS  
 RT AERODYNAMIC CHARACTERISTICS  
 AERODYNAMIC FORCES  
 AERODYNAMIC STABILITY  
 AEROELASTICITY  
 FLUTTER  
 FLUTTER ANALYSIS  
 UNSTEADY FLOW  
 WING OSCILLATIONS

# UNSTEADY FLOW

UF PULSATING FLOW  
 GS FLUID FLOW  
 . . . UNSTEADY FLOW  
 . . . OSCILLATING FLOW  
 RT AERODYNAMICS  
 CRITICAL FLOW  
 ∞ FLOW  
 FLOW STABILITY  
 FLOW VELOCITY  
 FLUID DYNAMICS  
 GAS FLOW  
 HEAT TRANSMISSION  
 HYDRODYNAMIC COEFFICIENTS  
 LAMINAR FLOW  
 LIQUID FLOW  
 MASS FLOW  
 METHOD OF CHARACTERISTICS  
 MULTIPHASE FLOW  
 NONEQUILIBRIUM FLOW  
 NONNEWTONIAN FLOW  
 NONUNIFORM FLOW  
 ORIFICE FLOW  
 PIPE FLOW  
 PRESSURE GRADIENTS  
 SINGLE-PHASE FLOW  
 SOLIDS FLOW  
 STEADY FLOW  
 STEADY STATE  
 STEAM FLOW  
 STROUHAL NUMBER  
 SUBCRITICAL FLOW  
 SUPERCRITICAL FLOW  
 TURBULENCE  
 UNIFORM FLOW

# UNSTEADY FLOW-(CONT.)

## UNSTEADY AERODYNAMICS

# UNSTEADY STATE

RT ∞ EQUILIBRIUM  
 FLUID DYNAMICS  
 METASTABLE STATE  
 NONEQUILIBRIUM CONDITIONS  
 STABILITY  
 STEADY STATE  
 SYSTEMS STABILITY  
 THERMODYNAMICS

# UNSWEPT WINGS

GS AIRFOILS  
 . WINGS  
 . . . UNSWEPT WINGS  
 . . . INFINITE SPAN WINGS  
 . . . RECTANGULAR WINGS  
 . . . RING WINGS  
 RT FIXED WINGS  
 SWEEP WINGS  
 WING PLANFORMS

# UPPER STAGE ROCKET ENGINES

GS ENGINES  
 . ROCKET ENGINES  
 . . . UPPER STAGE ROCKET ENGINES  
 RT INERTIAL UPPER STAGE  
 MULTISTAGE ROCKET VEHICLES  
 SPACECRAFT CONFIGURATIONS  
 SPINNING SOLID UPPER STAGE  
 STAGE SEPARATION

# UPPER SURFACE BLOWING

GS BLOWING  
 . . . UPPER SURFACE BLOWING  
 RT AERODYNAMIC CHARACTERISTICS  
 AIRCRAFT CONFIGURATIONS  
 CIRCULATION CONTROL AIRFOILS  
 LIFT  
 ∞ SURFACES  
 UNDER SURFACE BLOWING

# UPPER SURFACE BLOWN FLAPS

GS AIRFOILS  
 . FLAPS (CONTROL SURFACES)  
 . . . EXTERNALLY BLOWN FLAPS  
 . . . . . UPPER SURFACE BLOWN FLAPS  
 . . . CONTROL SURFACES  
 . . . FLAPS (CONTROL SURFACES)  
 . . . EXTERNALLY BLOWN FLAPS  
 . . . . . UPPER SURFACE BLOWN FLAPS  
 RT AIRCRAFT STABILITY  
 BOUNDARY LAYER CONTROL  
 LIFT AUGMENTATION  
 LIFT DEVICES  
 ∞ SURFACES

# UPWASH

RT DOWNWASH  
 ∞ DRAFT  
 INTERFERENCE DRAG  
 INTERFERENCE LIFT

# URBAN TRANSPORTATION

GS TRANSPORTATION  
 . . . URBAN TRANSPORTATION  
 RT AUTOMATED GUIDEWAY TRANSIT  
 VEHICLES  
 AUTOMATED MIXED TRAFFIC VEHICLES  
 AUTOMATED TRANSIT VEHICLES  
 INDUSTRIAL AREAS  
 MEGALOPOLISES  
 RAIL TRANSPORTATION  
 RAPID TRANSIT SYSTEMS  
 REGIONAL PLANNING  
 SURFACE VEHICLES

# US-2A AIRCRAFT

USE S-2 AIRCRAFT

# UTILITY AIRCRAFT

GS UTILITY AIRCRAFT  
 . BO-105 HELICOPTER  
 . C-140 AIRCRAFT  
 . DHC 4 AIRCRAFT  
 . DHC 5 AIRCRAFT  
 . DO-27 AIRCRAFT  
 . DO-28 AIRCRAFT  
 . HC-3 HELICOPTER  
 . HH-43 HELICOPTER  
 . OH-13 HELICOPTER  
 . OH-23 HELICOPTER

# UTILITY AIRCRAFT-(CONT.)

. P-531 HELICOPTER  
 . PD-808 AIRCRAFT  
 . S-2 AIRCRAFT  
 . SAAB 105 AIRCRAFT  
 . T-39 AIRCRAFT  
 . U-2 AIRCRAFT  
 . U-10 AIRCRAFT  
 . UH-1 HELICOPTER  
 . UH-2 HELICOPTER  
 . UH-34 HELICOPTER  
 . UH-60A HELICOPTER  
 . UH-61A HELICOPTER  
 . WESTLAND WHIRLWIND HELICOPTER  
 . XV-8A AIRCRAFT  
 . Z-37 AIRCRAFT  
 RT ∞ AIRCRAFT  
 BIPLANES  
 CARGO AIRCRAFT  
 COMMERCIAL AIRCRAFT  
 GENERAL AVIATION AIRCRAFT  
 HELICOPTERS  
 LIGHT AIRCRAFT  
 ∞ MILITARY AIRCRAFT  
 OBSERVATION AIRCRAFT  
 RECONNAISSANCE AIRCRAFT  
 SNOW AIRCRAFT  
 ∞ SUBSONIC AIRCRAFT  
 TERRAIN FOLLOWING AIRCRAFT  
 TRANSPORT AIRCRAFT  
 V/STOL AIRCRAFT  
 WATER TAKEOFF AND LANDING  
 AIRCRAFT

# V

# V-1 MISSILE

GS MISSILES  
 . SURFACE TO SURFACE MISSILES  
 . . . V-1 MISSILE  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 PULSEJET ENGINES

# V-2 MISSILE

GS MISSILES  
 . BALLISTIC MISSILES  
 . . . V-2 MISSILE  
 RT LIQUID PROPELLANT ROCKET ENGINES

# V-3 AIRCRAFT

USE XV-3 AIRCRAFT

# V-4 AIRCRAFT

USE XV-4 AIRCRAFT

# V-5 AIRCRAFT

USE XV-5 AIRCRAFT

# V-6 AIRCRAFT

USE XV-9A AIRCRAFT

# V/STOL AIRCRAFT

UF CONVERTAPLANES  
 STEEP GRADIENT AIRCRAFT  
 STOVL AIRCRAFT  
 GS V/STOL AIRCRAFT  
 . CL-84 AIRCRAFT  
 . DO-31 AIRCRAFT  
 . FV-12A AIRCRAFT  
 . G-85/4 AIRCRAFT  
 . G-222 AIRCRAFT  
 . L-29 JET TRAINER  
 . P-1127 AIRCRAFT  
 . P-1154 AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . . . . AUTOGYROS  
 . . . . . AVIAN 2/180 AUTOGIRO  
 . . . . . HELICOPTERS  
 . . . . . ALOUETTE HELICOPTERS  
 . . . . . SA-330 HELICOPTER  
 . . . . . SE-3160 HELICOPTER  
 . . . . . COMPOUND HELICOPTERS  
 . . . . . H-17 HELICOPTER  
 . . . . . LIGHT HELICOPTERS  
 . . . . . OH-4 HELICOPTER  
 . . . . . OH-5 HELICOPTER  
 . . . . . OH-6 HELICOPTER  
 . . . . . OH-58 HELICOPTER  
 . . . . . MILITARY HELICOPTERS  
 . . . . . AH-1G HELICOPTER  
 . . . . . AH-64 HELICOPTER  
 . . . . . BELL 214A HELICOPTER

## VACUUM APPARATUS

### V/STOL AIRCRAFT-(CONT.)

. . . . BO-105 HELICOPTER  
 . . . . CH-3 HELICOPTER  
 . . . . CH-21 HELICOPTER  
 . . . . CH-34 HELICOPTER  
 . . . . CH-46 HELICOPTER  
 . . . . CH-47 HELICOPTER  
 . . . . CH-54 HELICOPTER  
 . . . . H-19 HELICOPTER  
 . . . . H-43 HELICOPTER  
 . . . . H-53 HELICOPTER  
 . . . . H-54 HELICOPTER  
 . . . . H-56 HELICOPTER  
 . . . . H-60 HELICOPTER  
 . . . . HC-3 HELICOPTER  
 . . . . HEAVY LIFT HELICOPTERS  
 . . . . CH-62 HELICOPTER  
 . . . . HH-43 HELICOPTER  
 . . . . OH-4 HELICOPTER  
 . . . . OH-5 HELICOPTER  
 . . . . OH-6 HELICOPTER  
 . . . . OH-13 HELICOPTER  
 . . . . OH-23 HELICOPTER  
 . . . . OH-58 HELICOPTER  
 . . . . P-531 HELICOPTER  
 . . . . OH-50 HELICOPTER  
 . . . . S-58 HELICOPTER  
 . . . . S-61 HELICOPTER  
 . . . . SA-321 HELICOPTER  
 . . . . SA-330 HELICOPTER  
 . . . . SH-3 HELICOPTER  
 . . . . SH-4 HELICOPTER  
 . . . . SIKORSKY WHIRLWIND  
 . . . . HELICOPTER  
 . . . . UH-1 HELICOPTER  
 . . . . UH-2 HELICOPTER  
 . . . . UH-34 HELICOPTER  
 . . . . UH-60A HELICOPTER  
 . . . . UH-61A HELICOPTER  
 . . . . WESTLAND WHIRLWIND  
 . . . . HELICOPTER  
 . . . . XV-9A AIRCRAFT  
 . . . . RIGID ROTOR HELICOPTERS  
 . . . . CH-3 HELICOPTER  
 . . . . F-28 HELICOPTER  
 . . . . XH-51 HELICOPTER  
 . . . . TANDEM ROTOR HELICOPTERS  
 . . . . CH-46 HELICOPTER  
 . . . . CH-47 HELICOPTER  
 . . . . H-25 HELICOPTER  
 . . . . TH-55 HELICOPTER  
 . . . . ROTOR SYSTEMS RESEARCH  
 . . . . AIRCRAFT  
 . . . . TILT ROTOR AIRCRAFT  
 . . . . V-22 AIRCRAFT  
 . . . . XV-15 AIRCRAFT  
 . . . . SHORT TAKEOFF AIRCRAFT  
 . . . . ALADIN 2 AIRCRAFT  
 . . . . BREQUET 940 AIRCRAFT  
 . . . . BREQUET 941 AIRCRAFT  
 . . . . C-8A AUGMENTOR WING AIRCRAFT  
 . . . . C-15 AIRCRAFT  
 . . . . C-123 AIRCRAFT  
 . . . . DHC 4 AIRCRAFT  
 . . . . DHC 5 AIRCRAFT  
 . . . . QUESTOL AIRCRAFT  
 . . . . U-10 AIRCRAFT  
 . . . . VERTICAL TAKEOFF AIRCRAFT  
 . . . . FLYING PLATFORMS  
 . . . . SC-1 AIRCRAFT  
 . . . . VJ-101 AIRCRAFT  
 . . . . VZ-8 AIRCRAFT  
 . . . . X-13 AIRCRAFT  
 . . . . X-14 AIRCRAFT  
 . . . . X-19 AIRCRAFT  
 . . . . X-22 AIRCRAFT  
 . . . . X-22A AIRCRAFT  
 . . . . XC-142 AIRCRAFT  
 . . . . XV-4 AIRCRAFT  
 . . . . XV-11A AIRCRAFT  
 . . . . VZ-2 AIRCRAFT  
 . . . . XV-3 AIRCRAFT  
 . . . . XV-5 AIRCRAFT  
 . . . . XV-8A AIRCRAFT  
 RT ∞ AIRCRAFT  
 . . . . ANTISUBMARINE WARFARE AIRCRAFT  
 . . . . ATTACK AIRCRAFT  
 . . . . COMMERCIAL AIRCRAFT  
 . . . . CONVERTIBLE FAN-SHAFT ENGINES  
 . . . . DRONE AIRCRAFT  
 . . . . FAN IN WING AIRCRAFT  
 . . . . FIGHTER AIRCRAFT  
 . . . . GROUND EFFECT MACHINES  
 . . . . HELIPORTS  
 . . . . HOVERING  
 . . . . JET AIRCRAFT

### V/STOL AIRCRAFT-(CONT.)

∞ MILITARY AIRCRAFT  
 . . . . PASSENGER AIRCRAFT  
 . . . . RECONNAISSANCE AIRCRAFT  
 . . . . RESEARCH AIRCRAFT  
 . . . . SHORT HAUL AIRCRAFT  
 . . . . TILT WING AIRCRAFT  
 . . . . TRANSITION FLIGHT  
 . . . . TRANSPORT AIRCRAFT  
 . . . . UTILITY AIRCRAFT  
 . . . . VERTICAL FLIGHT  
 . . . . WESER AIRCRAFT  
 . . . . WESTLAND AIRCRAFT

### VACUUM APPARATUS

GS VACUUM APPARATUS  
 . . . . VACUUM CHAMBERS  
 . . . . VACUUM FURNACES  
 . . . . VACUUM GAGES  
 . . . . IONIZATION GAGES  
 . . . . ALPHATRONS  
 . . . . BAYARD-ALPERT IONIZATION  
 . . . . GAGES  
 . . . . PENNING GAGES  
 . . . . PHILIPS IONIZATION GAGES  
 . . . . KNUDSEN GAGES  
 . . . . MCLEOD GAGES  
 . . . . PIRANI GAGES  
 . . . . VACUUM PUMPS  
 . . . . CONDENSATION PUMPS  
 . . . . ION PUMPS  
 . . . . MOLECULAR PUMPS  
 RT COLD TRAPS  
 . . . . DIFFUSION PUMPS  
 . . . . HIGH VACUUM  
 . . . . LOW DENSITY RESEARCH  
 . . . . RESIDUAL GAS  
 . . . . SUCTION  
 . . . . ULTRAHIGH VACUUM  
 . . . . VACUUM ARC SWITCHES

### VACUUM CHAMBERS

UF LOW PRESSURE CHAMBERS  
 GS COMPARTMENTS  
 . . . . TEST CHAMBERS  
 . . . . PRESSURE CHAMBERS  
 . . . . VACUUM CHAMBERS  
 . . . . VACUUM APPARATUS  
 . . . . VACUUM CHAMBERS  
 RT ALTITUDE SIMULATION  
 ∞ CHAMBERS  
 . . . . HIGH ALTITUDE ENVIRONMENTS  
 . . . . HIGH ALTITUDE PRESSURE  
 . . . . HYPERBARIC CHAMBERS  
 . . . . PRESSURE  
 . . . . SPACE ENVIRONMENT SIMULATION  
 . . . . SPACE SIMULATORS  
 . . . . THERMAL VACUUM TESTS  
 . . . . WIND TUNNEL DRIVES

### VACUUM EFFECTS

RT COLD WELDING  
 ∞ EFFECTS  
 . . . . ENVIRONMENTS  
 . . . . OFFGASSING  
 . . . . PRESSURE EFFECTS  
 . . . . SPACE MANUFACTURING  
 . . . . VACUUM ARC SWITCHES

### VACUUM GAGES

GS MEASURING INSTRUMENTS  
 . . . . PRESSURE GAGES  
 . . . . VACUUM GAGES  
 . . . . IONIZATION GAGES  
 . . . . ALPHATRONS  
 . . . . BAYARD-ALPERT IONIZATION  
 . . . . GAGES  
 . . . . PENNING GAGES  
 . . . . PHILIPS IONIZATION GAGES  
 . . . . KNUDSEN GAGES  
 . . . . MCLEOD GAGES  
 . . . . PIRANI GAGES  
 . . . . VACUUM APPARATUS  
 . . . . VACUUM GAGES  
 . . . . IONIZATION GAGES  
 . . . . ALPHATRONS  
 . . . . BAYARD-ALPERT IONIZATION  
 . . . . GAGES  
 . . . . PENNING GAGES  
 . . . . PHILIPS IONIZATION GAGES  
 . . . . KNUDSEN GAGES  
 . . . . MCLEOD GAGES  
 . . . . PIRANI GAGES  
 RT BAROMETERS  
 . . . . MANOMETERS

### VACUUM GAGES-(CONT.)

ORBITRONS  
 PRESSURE MEASUREMENT

### VACUUM PUMPS

GS PUMPS  
 . . . . VACUUM PUMPS  
 . . . . CONDENSATION PUMPS  
 . . . . ION PUMPS  
 . . . . MOLECULAR PUMPS  
 . . . . VACUUM APPARATUS  
 . . . . VACUUM PUMPS  
 . . . . CONDENSATION PUMPS  
 . . . . ION PUMPS  
 . . . . MOLECULAR PUMPS  
 RT COMPRESSORS  
 . . . . CRYOPUMPING  
 . . . . DIFFUSION PUMPS  
 . . . . EJECTORS  
 . . . . EVACUATING (VACUUM)  
 . . . . JET PUMPS  
 . . . . MATERIALS HANDLING  
 . . . . OUTGASSING  
 . . . . SUCTION

### VALIANT AIRCRAFT

UF VICKERS VALIANT AIRCRAFT  
 GS ATTACK AIRCRAFT  
 . . . . BOMBER AIRCRAFT  
 . . . . VALIANT AIRCRAFT  
 . . . . BAC AIRCRAFT  
 . . . . VALIANT AIRCRAFT  
 . . . . JET AIRCRAFT  
 . . . . VALIANT AIRCRAFT  
 . . . . MONOPLANES  
 . . . . VALIANT AIRCRAFT  
 RT ∞ AIRCRAFT  
 . . . . RECONNAISSANCE AIRCRAFT  
 . . . . TANKER AIRCRAFT

### VALKYRIE AIRCRAFT

USE B-70 AIRCRAFT

### VALVES

UF HYDRAULIC VALVES  
 GS VALVES  
 . . . . ARTIFICIAL HEART VALVES  
 . . . . AUTOMATIC CONTROL VALVES  
 . . . . PRESSURE REGULATORS  
 . . . . RELIEF VALVES  
 . . . . BUTTERFLY VALVES  
 . . . . DAMPERS (VALVES)  
 . . . . COCKS  
 . . . . CONTROL VALVES  
 . . . . FUEL VALVES  
 . . . . GAS VALVES  
 . . . . HEART VALVES  
 . . . . SOLENOID VALVES  
 RT BALLS  
 . . . . CHOKES (RESTRICTIONS)  
 . . . . CLOSURES  
 . . . . DIVERTERS  
 . . . . ENGINE PARTS  
 . . . . HYDRAULIC EQUIPMENT  
 . . . . PACKINGS (SEALS)  
 . . . . PNEUMATIC CIRCUITS  
 . . . . PNEUMATIC EQUIPMENT  
 . . . . SEALS (STOPPERS)  
 . . . . TRAPS  
 . . . . WATER HAMMER

### VAMPIRE AIRCRAFT

USE DH 115 AIRCRAFT

### VAMPIRE MK 35 AIRCRAFT

GS ATTACK AIRCRAFT  
 . . . . FIGHTER AIRCRAFT  
 . . . . VAMPIRE MK 35 AIRCRAFT  
 . . . . HAWKER SIDDELEY AIRCRAFT  
 . . . . VAMPIRE MK 35 AIRCRAFT  
 . . . . JET AIRCRAFT  
 . . . . VAMPIRE MK 35 AIRCRAFT  
 . . . . SINGLE ENGINE AIRCRAFT  
 . . . . VAMPIRE MK 35 AIRCRAFT  
 RT ∞ AIRCRAFT  
 . . . . BOMBER AIRCRAFT  
 . . . . HARRIER AIRCRAFT

### VAN DER WAAL FORCES

RT DIPOLE MOMENTS  
 ∞ FORCE  
 . . . . INTERATOMIC FORCES  
 . . . . INTERMOLECULAR FORCES

**VANELESS DIFFUSERS**

RT COMPRESSORS  
 ∞ DIFFUSERS  
 EXHAUST DIFFUSERS  
 PUMPS  
 SUPERSONIC DIFFUSERS

**VANES**

GS VANES  
 . GUIDE VANES  
 . JET VANES  
 . WIND VANES  
 RT AIRFOILS  
 ∞ BLADES  
 COMPRESSOR BLADES  
 CONTROL SURFACES  
 FINS  
 IMPELLERS  
 NOSE FINS  
 STATOR BLADES  
 TAIL ASSEMBLIES  
 TURBOMACHINE BLADES  
 WINDPOWER UTILIZATION  
 WINDPOWERED GENERATORS  
 WINDPOWERED PUMPS

**VANGUARD 2 LAUNCH VEHICLE**

GS LAUNCH VEHICLES  
 . VANGUARD 2 LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . VANGUARD 2 LAUNCH VEHICLE  
 RT LIQUID PROPELLANT ROCKET ENGINES  
 SOLID PROPELLANT ROCKET ENGINES  
 VIKING ROCKET VEHICLE  
 X-248 ENGINE

**VANS**

USE TRUCKS

**VAPOR JETS**

GS FLUID JETS  
 . VAPOR JETS  
 RT AIR JETS  
 GAS FLOW  
 JET FLOW  
 PLASMA JETS

**VAPOR TRAILS**

USE CONTRAILS

**VAPORIZATION HEAT**

USE HEAT OF VAPORIZATION

**VAPORIZING**

UF VOLATILIZATION  
 GS PHASE TRANSFORMATIONS  
 . VAPORIZING  
 . BOILING  
 . . . FILM BOILING  
 . . . NUCLEATE BOILING  
 . . . LEIDENFROST PHENOMENON  
 . EVAPORATION  
 . . EVAPOTRANSPIRATION  
 . . PROPELLANT EVAPORATION  
 . . . TRANSPIRATION  
 . . FLASHING (VAPORIZING)  
 . . PREVAPORIZATION  
 . . SUBLIMATION  
 RT ABLATION  
 CONCENTRATING  
 DESALINIZATION  
 DISTILLATION  
 EVOLUTION (LIBERATION)  
 GASIFICATION  
 HEAT OF VAPORIZATION  
 HEATING  
 ∞ SEPARATION  
 SPRAYING  
 STRIPPING (DISTILLATION)  
 SURFACE REACTIONS  
 VAPOR DEPOSITION  
 VAPORIZERS  
 VAPORS  
 VOLATILITY

**VARIABLE AREA WINGS**

USE TRAILING EDGE FLAPS

**VARIABLE LIFT**

USE LIFT

**VARIABLE PITCH PROPELLERS**

UF CONSTANT SPEED PROPELLERS

**VARIABLE PITCH PROPELLERS-(CONT.)**

GS PROPELLERS  
 . VARIABLE PITCH PROPELLERS  
 RT HELICOPTER PROPELLER DRIVE  
 PITCH (INCLINATION)

**VARIABLE SWEEP WINGS**

UF M WINGS  
 OGEE WINGS  
 W WINGS  
 GS AIRFOILS  
 . WINGS  
 . . VARIABLE SWEEP WINGS  
 PLANFORMS  
 . WING PLANFORMS  
 . . VARIABLE SWEEP WINGS  
 RT ARROW WINGS  
 BOEING 733 AIRCRAFT  
 DELTA WINGS  
 F-111 AIRCRAFT  
 FOLDING STRUCTURES  
 MISSION ADAPTIVE WINGS  
 OGEE SHAPE  
 PANAVIA MILITARY AIRCRAFT  
 SWEPT FORWARD WINGS  
 SWEPTBACK WINGS

**VARIABLE THRUST**

GS THRUST  
 . VARIABLE THRUST  
 RT CONTROL ROCKETS  
 HIGH THRUST  
 JET CONTROL  
 JET THRUST  
 LOW THRUST  
 LOW THRUST PROPULSION  
 MICROTHRUST  
 ROCKET THRUST  
 THROTTLING  
 THRUST AUGMENTATION  
 THRUST CONTROL  
 THRUST TERMINATION  
 THRUST VECTOR CONTROL

**VARIATIONAL PRINCIPLES**

RT CALCULUS OF VARIATIONS  
 ∞ DYNAMICS  
 EQUILIBRIUM METHODS  
 IRREVERSIBLE PROCESSES  
 ONSAGER PHENOMENOLOGICAL  
 COEFFICIENT  
 RAYLEIGH-RITZ METHOD

**VATOL AIRCRAFT**

SN (VERTICAL ATTITUDE TAKEOFF AND  
 LANDING AIRCRAFT)  
 UF VERTICAL ATTITUDE TAKEOFF-LANDING  
 AIRCRAFT  
 XBQM-180A AIRCRAFT  
 RT ∞ AIRCRAFT  
 DELTA WINGS  
 REMOTELY PILOTED VEHICLES  
 VERTICAL LANDING  
 VERTICAL TAKEOFF AIRCRAFT

**VC-10 AIRCRAFT**

UF VICKERS VC-10 AIRCRAFT  
 VICKERS 1100 AIRCRAFT  
 GS BAC AIRCRAFT  
 . VC-10 AIRCRAFT  
 COMMERCIAL AIRCRAFT  
 . VC-10 AIRCRAFT  
 JET AIRCRAFT  
 . VC-10 AIRCRAFT  
 MONOPLANES  
 . VC-10 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . VC-10 AIRCRAFT  
 TRANSPORT AIRCRAFT  
 . VC-10 AIRCRAFT  
 RT ∞ AIRCRAFT  
 CARGO AIRCRAFT

**VECTOR CONTROL**

USE DIRECTIONAL CONTROL

**VEGA LAUNCH VEHICLE**

UF VEGA ROCKET VEHICLE  
 GS LAUNCH VEHICLES  
 . VEGA LAUNCH VEHICLE  
 ROCKET VEHICLES  
 . MULTISTAGE ROCKET VEHICLES  
 . VEGA LAUNCH VEHICLE  
 RT ATLAS D ICBM  
 LIQUID PROPELLANT ROCKET ENGINES

**VEGA ROCKET VEHICLE**

USE VEGA LAUNCH VEHICLE

**VEHICLE WHEELS**

GS WHEELS  
 . VEHICLE WHEELS  
 . . NOSE WHEELS  
 RT AIRCRAFT TIRES  
 BRAKES (FOR ARRESTING MOTION)  
 LANDING GEAR  
 MECHANICAL DRIVES  
 ROLLERS  
 SHAFTS (MACHINE ELEMENTS)  
 SUSPENSION SYSTEMS (VEHICLES)  
 TIRES  
 TOROIDAL WHEELS  
 TRANSMISSIONS (MACHINE ELEMENTS)  
 WHEEL BRAKES

**∞ VEHICLES**

SN (USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED—CONSULT THE TERMS  
 LISTED BELOW)  
 UF CRAFT  
 ROTATING VEHICLES  
 AMPHIBIOUS VEHICLES  
 ARCAS ROCKET VEHICLES  
 ARCON ROCKET VEHICLE  
 ARGO ROCKET VEHICLES  
 ASTROBEE ROCKET VEHICLES  
 ATLAS AGENA LAUNCH VEHICLES  
 ATLAS LAUNCH VEHICLES  
 AUTOMATED GUIDEWAY TRANSIT  
 VEHICLES  
 AUTOMATED MIXED TRAFFIC VEHICLES  
 AUTOMATED TRANSIT VEHICLES  
 AUTOMOBILES  
 ∞ BALLISTIC VEHICLES  
 BOOSTGLIDE VEHICLES  
 CAPTURED AIR BUBBLE VEHICLES  
 CONTROL CONFIGURED VEHICLES  
 CRAWLER TRACTORS  
 DRONE VEHICLES  
 ELECTRIC HYBRID VEHICLES  
 ELECTRIC MOTOR VEHICLES  
 ENGINES  
 EUROPA LAUNCH VEHICLES  
 FLIGHT TEST VEHICLES  
 ∞ FLIGHT VEHICLES  
 GROUND EFFECT MACHINES  
 HEAVY LIFT LAUNCH VEHICLES  
 HOTEL LAUNCH VEHICLE  
 HOVERING ROCKET VEHICLES  
 HYDROPLANES (VEHICLES)  
 HYPERSONIC VEHICLES  
 INTRAORBIT TRANSFER VEHICLES  
 JUNO LAUNCH VEHICLES  
 KAPPA ROCKET VEHICLES  
 LAMBDA ROCKET VEHICLES  
 LAUNCH VEHICLES  
 LOW OBSERVABLE REENTRY VEHICLES  
 LUNAR FLYING VEHICLES  
 LUNAR ROVING VEHICLES  
 LUNAR SURFACE VEHICLES  
 LUNOKHOD LUNAR ROVING VEHICLES  
 MAGNETIC LEVITATION VEHICLES  
 MANNED LUNAR SURFACE VEHICLES  
 ∞ MILITARY VEHICLES  
 MISSILES  
 MOTOR VEHICLES  
 MULTIENGINE VEHICLES  
 MULTISTAGE ROCKET VEHICLES  
 NIKE ROCKET VEHICLES  
 NIKE-HYDAC ROCKET VEHICLE  
 NIKE-IROQUOIS ROCKET VEHICLE  
 NOVA LAUNCH VEHICLES  
 NUCLEAR ENGINE FOR ROCKET  
 VEHICLES  
 ORBIT TRANSFER VEHICLES  
 RANGER LUNAR LANDING VEHICLES  
 RECOVERABLE LAUNCH VEHICLES  
 RECOVERY VEHICLES  
 REENTRY VEHICLES  
 REMOTELY PILOTED VEHICLES  
 RESEARCH VEHICLES  
 REUSABLE LAUNCH VEHICLES  
 ROCKET VEHICLES  
 ROVING VEHICLES  
 SATURN LAUNCH VEHICLES  
 SINGLE STAGE ROCKET VEHICLES  
 SINGLE STAGE TO ORBIT VEHICLES  
 SKUA ROCKET VEHICLES  
 ∞ SPACECRAFT  
 STANDARD LAUNCH VEHICLES  
 SURFACE EFFECT SHIPS

## VEHICULAR TRACKS

### VEHICLES-(CONT.)

- SURFACE VEHICLES
- SWATH (SHIP)
- TANKS (COMBAT VEHICLES)
- TERMINAL CONFIGURED VEHICLE PROGRAM
- TEST VEHICLES
- THOR LAUNCH VEHICLES
- THORAD LAUNCH VEHICLES
- TITAN LAUNCH VEHICLES
- TRACKED VEHICLES
- TRACTORS
- ∞ TRANSPORT VEHICLES
- TRANSPORTER
- UNDERWATER VEHICLES
- UNIDENTIFIED FLYING OBJECTS
- VERONIQUE ROCKET VEHICLES
- WATER VEHICLES
- ∞ WINGED VEHICLES

### VEHICULAR TRACKS

- RT IDLERS
- SURFACE VEHICLES
- SUSPENSION SYSTEMS (VEHICLES)
- TRACKED VEHICLES
- ∞ TRACKS
- TREADS

### VELOCITY

- UF SPEED
- GS VELOCITY
  - . ACOUSTIC VELOCITY
  - . AIRSPEED
  - . ANGULAR VELOCITY
  - . CRITICAL VELOCITY
  - . ESCAPE VELOCITY
  - . EXHAUST VELOCITY
  - . FLOW VELOCITY
  - . . SOLAR WIND VELOCITY
  - . GROUND SPEED
  - . GROUP VELOCITY
  - . HIGH SPEED
  - . HYPERSONIC SPEED
  - . LANDING SPEED
  - . LIGHT SPEED
  - . LOW SPEED
  - . ORBITAL VELOCITY
  - . PHASE VELOCITY
  - . PROPAGATION VELOCITY
  - . RADIAL VELOCITY
  - . RELATIVISTIC VELOCITY
  - . ROTOR SPEED
  - . SOLAR VELOCITY
  - . SUBSONIC SPEED
  - . SUPERSONIC SPEED
  - . TERMINAL VELOCITY
  - . TIP SPEED
  - . TRANSONIC SPEED
  - . WIND VELOCITY
  - . . SOLAR WIND VELOCITY
- RT ACCELERATION (PHYSICS)
- BODY KINEMATICS
- DE BROGLIE WAVELENGTHS
- ∞ DYNAMICS
- FERMAT PRINCIPLE
- KINEMATICS
- KINETICS
- LOADING RATE
- ∞ MOTION
- PERCEPTUAL TIME CONSTANT
- PRESSURE MEASUREMENT
- RELATIVISTIC EFFECTS
- SOLITARY WAVES
- TIME MEASUREMENT

### VELOCITY DISTRIBUTION

- UF VELOCITY FIELDS
- VELOCITY PROFILES
- GS DISTRIBUTION (PROPERTY)
- . VELOCITY DISTRIBUTION
- RT CIRCULATION DISTRIBUTION
- FLOW DISTRIBUTION
- FLOW VELOCITY
- GALACTIC ROTATION
- ORR-SOMMERFELD EQUATIONS
- POHLHAUSEN METHOD
- PRESSURE DISTRIBUTION
- SHOCK WAVE PROFILES
- THREE DIMENSIONAL BOUNDARY LAYER

### VELOCITY ERRORS

- GS ERRORS
- . VELOCITY ERRORS
- RT ESCAPE VELOCITY
- ORBITAL VELOCITY

### VELOCITY ERRORS-(CONT.)

POSITION ERRORS

### VELOCITY FIELDS

USE VELOCITY DISTRIBUTION

### VELOCITY MEASUREMENT

- UF ANEMOMETRY
- GS MECHANICAL MEASUREMENT
  - . VELOCITY MEASUREMENT
  - . . WIND VELOCITY MEASUREMENT
- RT ACCELEROMETERS
- ANEMOMETERS
- DRAW FORCE ANEMOMETERS
- FLOW MEASUREMENT
- FLOW VELOCITY
- FLOWMETERS
- HOT-FILM ANEMOMETERS
- HOT-WIRE ANEMOMETERS
- HUBBLE CONSTANT
- HUBBLE DIAGRAM
- LASER ANEMOMETERS
- LASER DOPPLER VELOCIMETERS
- ∞ MEASUREMENT
- PITOT TUBES
- PRESSURE MEASUREMENT
- RADIAL VELOCITY
- SOLAR WIND VELOCITY
- SONIC ANEMOMETERS
- SPEED INDICATORS
- STROBOSCOPES
- TACHOMETERS
- TIME MEASUREMENT
- VENTURI TUBES
- VORTEX PRECESSION

### VELOCITY PROFILES

USE VELOCITY DISTRIBUTION

### VENOM AIRCRAFT

USE DH 112 AIRCRAFT

### VENTING

- RT BREATHING VIBRATION
- COOLING
- ∞ DISCHARGE
- EVACUATING (VACUUM)
- EXHAUSTING
- FLUSHING
- PURGING
- RELEASING
- RELIEF VALVES
- ∞ SEPARATION
- VENTILATION
- VENTS

### VENTS

- GS OUTLETS
- . VENTS
- RT ANNULAR DUCTS
- APERTURES
- CAVITIES
- CHIMNEYS
- COOLING SYSTEMS
- DUCTS
- EVACUATING (VACUUM)
- EXHAUST SYSTEMS
- FLUES
- GATES (OPENINGS)
- LOUVERS
- ∞ NOZZLES
- OPENINGS
- PORTS (OPENINGS)
- RELIEF VALVES
- SLOTTED WIND TUNNELS
- VENTILATION
- VENTILATORS
- VENTING
- WINDOWS (APERTURES)

### VENTURI TUBES

- RT ∞ DETECTORS
- FLOW MEASUREMENT
- FLOWMETERS
- GAS METERS
- MEASURING INSTRUMENTS
- ORIFICES
- PITOT TUBES
- PRESSURE GRADIENTS
- PRESSURE MEASUREMENT
- ∞ TUBES
- VELOCITY MEASUREMENT

### VENUS FLY TRAP ROCKET VEHICLE

GS ROCKET VEHICLES

### VENUS FLY TRAP ROCKET VEHICLE-(CONT.)

- . SOUNDING ROCKETS
- . . VENUS FLY TRAP ROCKET VEHICLE
- RT COSMIC DUST
- EXTRATERRESTRIAL MATTER

### VERONIQUE ROCKET VEHICLES

- GS ROCKET VEHICLES
- . SINGLE STAGE ROCKET VEHICLES
- . . VERONIQUE ROCKET VEHICLES
- . SOUNDING ROCKETS
- . . VERONIQUE ROCKET VEHICLES
- RT LIQUID PROPELLANT ROCKET ENGINES
- ∞ VEHICLES

### VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT

USE VATOL AIRCRAFT

### VERTICAL FINS

USE FINS

### VERTICAL FLIGHT

- RT BALLOON FLIGHT
- CLIMBING FLIGHT
- ∞ FLIGHT
- FLIGHT PATHS
- HOVERING
- ROCKET FLIGHT
- TRANSITION FLIGHT
- V/STOL AIRCRAFT

### VERTICAL LANDING

- UF VERTICAL TAKEOFF AND LANDING
- VTOL
- GS LANDING
- . VERTICAL LANDING
- RT AIRCRAFT LANDING
- SPACECRAFT LANDING
- TOUCHDOWN
- VATOL AIRCRAFT

### VERTICAL STABILIZERS

USE STABILIZERS (FLUID DYNAMICS)

### VERTICAL TAILS

USE STABILIZERS (FLUID DYNAMICS)

TAIL ASSEMBLIES

### VERTICAL TAKEOFF

- UF VERTICAL TAKEOFF AND LANDING
- VTOL
- GS TAKEOFF
- . VERTICAL TAKEOFF

### VERTICAL TAKEOFF AIRCRAFT

- UF VTOL AIRCRAFT
- GS V/STOL AIRCRAFT
- . VERTICAL TAKEOFF AIRCRAFT
- . . FLYING PLATFORMS
- . . SC-1 AIRCRAFT
- . . VJ-101 AIRCRAFT
- . . VZ-8 AIRCRAFT
- . . X-13 AIRCRAFT
- . . X-14 AIRCRAFT
- . . X-19 AIRCRAFT
- . . X-22 AIRCRAFT
- . . X-22A AIRCRAFT
- . . XC-142 AIRCRAFT
- . . XV-4 AIRCRAFT
- . . XV-11A AIRCRAFT
- RT ∞ AIRCRAFT
- BELL 214A HELICOPTER
- CF-700 ENGINE
- CIRCULATION CONTROL ROTORS
- COMPOUND HELICOPTERS
- CONVERTIBLE FAN-SHAFT ENGINES
- CUSHIONCRAFT GROUND EFFECT MACHINE
- FAN IN WING AIRCRAFT
- GETOL AIRCRAFT
- HELICOPTERS
- LIFT FANS
- LIFTING ROTORS
- ∞ MILITARY AIRCRAFT
- POWERED LIFT AIRCRAFT
- RESEARCH AIRCRAFT
- ROTARY WING AIRCRAFT
- SHORT TAKEOFF AIRCRAFT
- ∞ SUBSONIC AIRCRAFT
- T-58 ENGINE
- T-58-GE-88 ENGINE
- TILT WING AIRCRAFT
- VATOL AIRCRAFT

# VERTICAL TAKEOFF AIRCRAFT-(CONT.)

∞ WINGED VEHICLES

**VERTICAL TAKEOFF AND LANDING**  
USE VERTICAL LANDING  
VERTICAL TAKEOFF

## VERTICAL & ROCKET

GS ROCKET VEHICLES  
SOUNDING ROCKETS  
VERTICAL & ROCKET  
RT PAYLOADS  
∞ ROCKETS

**VERTOL MILITARY HELICOPTERS**  
USE BOEING AIRCRAFT

## VFR (RULES)

USE VISUAL FLIGHT RULES

## VHF OMNIRANGE NAVIGATION

UF OMNIRANGE NAVIGATION  
VOR SYSTEMS  
GS NAVIGATION  
RADIO NAVIGATION  
VHF OMNIRANGE NAVIGATION  
RT AIR NAVIGATION  
NAVIGATION AIDS  
RADIO DIRECTION FINDERS  
SOLAR COMPASSES

## VIBRATION

UF JITTER  
GS **VIBRATION**  
COMBUSTION VIBRATION  
FORCED VIBRATION  
FREE VIBRATION  
LATTICE VIBRATIONS  
POGO EFFECTS  
RANDOM VIBRATION  
RESONANT VIBRATION  
STRUCTURAL VIBRATION  
BENDING VIBRATION  
BREATHING VIBRATION  
FLUTTER  
PANEL FLUTTER  
SUBSONIC FLUTTER  
SUPERSONIC FLUTTER  
TRANSONIC FLUTTER  
LINEAR VIBRATION  
MISSILE VIBRATION  
SELF INDUCED VIBRATION  
PANEL FLUTTER  
SUBSONIC FLUTTER  
SUPERSONIC FLUTTER  
TRANSONIC FLUTTER  
TORSIONAL VIBRATION  
RT ACOUSTICS  
AIRFOIL OSCILLATIONS  
AMPLITUDES  
ANTINODES  
COMPACTING  
CYCLIC LOADS  
DISPLACEMENT  
∞ DYNAMICS  
ELASTIC WAVES  
FATIGUE (MATERIALS)  
FLAPPING  
HARMONICS  
ISOLATORS  
MECHANICAL OSCILLATORS  
MECHANICAL SHOCK  
MODES (STANDING WAVES)  
∞ MOTION  
NODES (STANDING WAVES)  
NUTATION  
OSCILLATING CYLINDERS  
OSCILLATIONS  
OSCILLATORS  
RESONANCE  
SHAKING  
SHOCK RESISTANCE  
SPACECRAFT MOTION  
STANDING WAVES  
VIBRATIONAL STRESS  
VIBRATORY LOADS  
VIBRATORY POLISHING  
∞ WAVES  
WING OSCILLATIONS

## VIBRATION EFFECTS

GS **VIBRATION EFFECTS**  
POGO EFFECTS  
RT ∞ EFFECTS  
SUPPORT INTERFERENCE

# VIBRATION EFFECTS-(CONT.)

VIBRATIONAL STRESS

## VIBRATION MEASUREMENT

GS MECHANICAL MEASUREMENT  
VIBRATION MEASUREMENT  
RT CEPSTRAL ANALYSIS  
DAMPING TESTS  
FREQUENCY ANALYZERS  
FREQUENCY MEASUREMENT  
∞ MEASUREMENT  
STRESS MEASUREMENT

## VIBRATION METERS

UF VIBROMETERS  
GS MEASURING INSTRUMENTS  
VIBRATION METERS  
SEISMOGRAPHS  
LUNAR SEISMOGRAPHS  
RT ACCELEROMETERS  
TRANSDUCERS

## VIBRATION SIMULATORS

UF VIBRATION TESTING MACHINES  
GS SIMULATORS  
VIBRATION SIMULATORS  
VERTICAL MOTION SIMULATORS  
RT FLUTTER  
∞ MACHINERY  
SHAKERS  
SHOCK SIMULATORS  
VIBRATORY LOADS

## VIBRATION TESTING MACHINES

USE VIBRATION SIMULATORS

## VIBRATION TESTS

GS **VIBRATION TESTS**  
DAMPING TESTS  
STROKING TESTS  
RT DESTRUCTIVE TESTS  
DYNAMIC TESTS  
ELECTRONIC EQUIPMENT TESTS  
ENGINE TESTS  
ENVIRONMENTAL TESTS  
FLIGHT TESTS  
FLUTTER  
MECHANICAL ENGINEERING  
OSCILLATIONS  
RESONANCE TESTING  
SHOCK TESTS  
STABILITY TESTS  
STATIC TESTS  
STRUCTURAL VIBRATION  
∞ TESTS

## VIBRATIONAL STRESS

GS STRESSES  
VIBRATIONAL STRESS  
RT FLUTTER  
VIBRATION  
VIBRATION EFFECTS  
VIBRATORY LOADS

## VIBRATORY LOADS

GS LOADS (FORCES)  
DYNAMIC LOADS  
VIBRATORY LOADS  
RT AERODYNAMIC LOADS  
CYCLIC LOADS  
STRUCTURAL DESIGN CRITERIA  
VERTICAL MOTION SIMULATORS  
VIBRATION  
VIBRATION SIMULATORS  
VIBRATIONAL STRESS

## VIBROMETERS

USE VIBRATION METERS

## VICKERS SCIMITAR AIRCRAFT

USE SCIMITAR AIRCRAFT

## VICKERS VALIANT AIRCRAFT

USE VALIANT AIRCRAFT

## VICKERS VC-10 AIRCRAFT

USE VC-10 AIRCRAFT

## VICKERS 1100 AIRCRAFT

USE VC-10 AIRCRAFT

## VICTOR MK-1 AIRCRAFT

GS ATTACK AIRCRAFT  
BOMBER AIRCRAFT

# VICTOR MK-1 AIRCRAFT-(CONT.)

VICTOR MK-1 AIRCRAFT  
HANDLEY PAGE AIRCRAFT  
VICTOR MK-1 AIRCRAFT  
JET AIRCRAFT  
VICTOR MK-1 AIRCRAFT  
MONOPLANES  
VICTOR MK-1 AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
VICTOR MK-1 AIRCRAFT  
RT ∞ AIRCRAFT

## VIDEO LANDMARK ACQUISITION AND TRACKING

GS TRACKING (POSITION)  
VIDEO LANDMARK ACQUISITION AND TRACKING  
RT AVIONICS  
IMAGE CORRELATORS  
MAP MATCHING GUIDANCE  
SCENE ANALYSIS  
SIGNATURES  
TERCOM  
TERRAIN ANALYSIS  
TRACKING FILTERS

## VIDEO TAPE RECORDERS

GS RECORDING INSTRUMENTS  
VIDEO TAPE RECORDERS  
TAPE RECORDERS  
VIDEO TAPE RECORDERS  
VIDEO EQUIPMENT  
VIDEO TAPE RECORDERS  
RT VIDEO TAPES

## VIDEO TAPES

RT CINEMATOGRAPHY  
∞ FILMS  
INFORMATION  
MAGNETIC TAPES  
MOTION PICTURES  
PHOTOGRAPHS  
PHOTOGRAPHY  
∞ TAPES  
VIDEO TAPE RECORDERS  
VISUAL AIDS

## VIGILANTE AIRCRAFT

USE A-5 AIRCRAFT

## VIKING ROCKET VEHICLE

GS ROCKET VEHICLES  
SINGLE STAGE ROCKET VEHICLES  
VIKING ROCKET VEHICLE  
RT LIQUID PROPELLANT ROCKET ENGINES  
SOUNDING ROCKETS  
VANGUARD 2 LAUNCH VEHICLE

## VIKING 75 ENTRY VEHICLE

GS INTERPLANETARY SPACECRAFT  
MARS PROBES  
VIKING 75 ENTRY VEHICLE  
RT MARS LANDING  
SOFT LANDING

## VISCOELASTIC CYLINDERS

RT ∞ CYLINDERS  
CYLINDRICAL BODIES  
CYLINDRICAL SHELLS

## VISCOELASTIC FLOW

USE VISCOELASTICITY

## VISCOELASTICITY

UF VISCOELASTIC FLOW  
GS MECHANICAL PROPERTIES  
ELASTIC PROPERTIES  
VISCOELASTICITY  
PHOTOVISCOELASTICITY  
THERMOVISCOELASTICITY  
RT HYDROELASTICITY  
HYSTERESIS  
MAXWELL FLUIDS  
NONNEWTONIAN FLOW  
NONNEWTONIAN FLUIDS  
PLASTIC FLOW  
RELAXATION (MECHANICS)  
SQUEEZE FILMS  
VISCOPLASTICITY  
VISCOUS DAMPING

## VISCOMETERS

GS MEASURING INSTRUMENTS  
VISCOMETERS  
RT ROTATING CYLINDERS

## VISCOMETRY

### VISCOMETERS-(CONT.)

VISCOMETRY  
VISCOSITY

### VISCOMETRY

RT ROTATING CYLINDERS  
VISCOMETERS  
VISCOSITY  
VISCOUS DRAG  
VISCOUS FLOW

### VISCOPLASTIC FLOW

USE VISCOPLASTICITY

### VISCOPLASTICITY

UF VISCOPLASTIC FLOW  
GS MECHANICAL PROPERTIES  
PLASTIC PROPERTIES  
VISCOPLASTICITY  
RT HYSTERESIS  
NONNEWTONIAN FLOW  
NONNEWTONIAN FLUIDS  
PLASTIC ANISOTROPY  
PLASTIC FLOW  
RELAXATION (MECHANICS)  
VISCOELASTICITY  
VISCOUS DAMPING

### VISCOPUMPS

GS PUMPS  
VISCOPUMPS  
RT VISCOUS FLOW

### VISCOSITY

GS TRANSPORT PROPERTIES  
VISCOSITY  
EDDY VISCOSITY  
GAS VISCOSITY  
RT DENSITY (MASS/VOLUME)  
FLOW CHARACTERISTICS  
FLOW RESISTANCE  
INTERNAL FRICTION  
LOW REYNOLDS NUMBER  
MOTION  
PHYSICAL PROPERTIES  
RHEOLOGY  
SIMILITUDE LAW  
SOLUBILITY  
STOKES LAW (FLUID MECHANICS)  
SUPERFLUIDITY  
SURFACE PROPERTIES  
THERMAL DIFFUSION  
THERMAL DIFFUSIVITY  
THIXOTROPY  
VISCOMETERS  
VISCOMETRY  
VISCOUS FLOW

### VISCOUNT AIRCRAFT

GS BAQ AIRCRAFT  
VISCOUNT AIRCRAFT  
JET AIRCRAFT  
TURBOPROP AIRCRAFT  
VISCOUNT AIRCRAFT  
MONOPLANES  
VISCOUNT AIRCRAFT  
PASSENGER AIRCRAFT  
VISCOUNT AIRCRAFT  
TRANSPORT AIRCRAFT  
VISCOUNT AIRCRAFT  
RT AIRCRAFT

### VISCOUS DRAG

GS DYNAMIC CHARACTERISTICS  
DRAG  
FRICTION DRAG  
VISCOUS DRAG  
FRICTION  
FLOW RESISTANCE  
FRICTION DRAG  
VISCOUS DRAG  
SKIN FRICTION  
FRICTION DRAG  
VISCOUS DRAG  
RT EDDY VISCOSITY  
HARTMANN NUMBER  
LAMINAR FLOW  
TURBULENT FLOW  
VISCOMETRY

### VISCOUS FLOW

GS FLUID FLOW  
VISCOUS FLOW  
BOUNDARY LAYER FLOW  
REATTACHED FLOW

### VISCOUS FLOW-(CONT.)

SECONDARY FLOW  
SEPARATED FLOW  
BOUNDARY LAYER SEPARATION  
COUETTE FLOW  
KARMAN-BODEWADT FLOW  
STOKES FLOW  
RT AERODYNAMICS  
BAROTROPIC FLOW  
EDDY VISCOSITY  
FLOW  
FLOW CHARACTERISTICS  
GAS FLOW  
INVISCID FLOW  
KNUDSEN FLOW  
LAMINAR FLOW  
MAGNETOHYDRODYNAMIC SHEAR  
HEATING  
MAXWELL FLUIDS  
MILNE-THOMSON METHOD  
NAVIER-STOKES EQUATION  
POHLHAUSEN METHOD  
PRANDTL NUMBER  
REYNOLDS NUMBER  
TURBULENT FLOW  
VISCOMETRY  
VISCOPUMPS  
VISCOSITY  
WEDGE FLOW

### VISCOUS FLUIDS

RT FLOW STABILITY  
FLUIDS  
MAXWELL FLUIDS  
NAVIER-STOKES EQUATION  
NEWTONIAN FLUIDS  
NONNEWTONIAN FLUIDS  
OSEEN APPROXIMATION  
SEMISOLIDS  
SQUEEZE FILMS  
WEIGHTLESS FLUIDS

### VISIBILITY

UF INVISIBILITY  
GS VISIBILITY  
LOW VISIBILITY  
RT APPEARANCE  
BRIGHTNESS  
CEILINGS (METEOROLOGY)  
CHARACTER RECOGNITION  
COLOR  
CONTRAST  
DARKENING  
FOG  
GLARE  
HAZE  
HUMAN FACTORS ENGINEERING  
ILLUMINANCE  
IMAGE CONTRAST  
LEGIBILITY  
LIGHT (VISIBLE RADIATION)  
LIGHT TRANSMISSION  
LUMINESCENCE  
LUMINOSITY  
NIGHT FLIGHTS (AIRCRAFT)  
OPACITY  
OPTICAL PROPERTIES  
PERCEPTION  
RADIANCE  
READING  
RESOLUTION  
RETINAL ADAPTATION  
SENSITIVITY  
SMOKE  
SYMBOLS  
TRANSMISSIVITY  
VIEWING  
VISION  
VISUAL CONTROL  
WHITEOUT

### VISUAL CONTROL

GS MANUAL CONTROL  
VISUAL CONTROL  
RT AIRCRAFT CONTROL  
APPROACH CONTROL  
ATTITUDE CONTROL  
CONTROL  
DISPLAY DEVICES  
GUIDANCE (MOTION)  
MISSILE CONTROL  
REMOTE CONTROL  
RUNWAY LIGHTS  
SERVOCONTROL  
SPACECRAFT CONTROL

### VISUAL CONTROL-(CONT.)

VISIBILITY

### VISUAL DISPLAYS

USE DISPLAY DEVICES

### VISUAL FLIGHT

RT AIR NAVIGATION  
COLLISION AVOIDANCE  
FLIGHT  
FLIGHT CONDITIONS  
FLIGHT PATHS  
FLIGHT SAFETY  
LANDING  
WHITEOUT

### VISUAL FLIGHT RULES

UF VFR (RULES)  
GS RULES  
FLIGHT RULES  
VISUAL FLIGHT RULES

### VISUALIZATION OF FLOW

USE FLOW VISUALIZATION

### VJ-101 AIRCRAFT

UF SUD VJ-101 AIRCRAFT  
GS ATTACK AIRCRAFT  
FIGHTER AIRCRAFT  
VJ-101 AIRCRAFT  
JET AIRCRAFT  
VJ-101 AIRCRAFT  
MONOPLANES  
VJ-101 AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
VJ-101 AIRCRAFT  
SUD AVIATION AIRCRAFT  
VJ-101 AIRCRAFT  
SUPERSONIC AIRCRAFT  
VJ-101 AIRCRAFT  
V/STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
VJ-101 AIRCRAFT  
RT AIRCRAFT

### VLASOV EQUATIONS

GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
DIFFERENTIAL EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
VLASOV EQUATIONS  
RT EQUATIONS  
STABILITY

### VOLATILITY

GS THERMODYNAMIC PROPERTIES  
THERMOPHYSICAL PROPERTIES  
VOLATILITY  
RT COAL GASIFICATION  
EVAPORATION  
FLASH POINT  
PREVAPORIZATION  
VAPOR PHASES  
VAPOR PRESSURE  
VAPORIZING

### VOLATILIZATION

USE VAPORIZING

### VOLTAGE VARIATION INDICATORS

USE VOLTMETERS

### VOLTERRA EQUATIONS

GS ANALYSIS (MATHEMATICS)  
FUNCTIONAL ANALYSIS  
INTEGRAL EQUATIONS  
VOLTERRA EQUATIONS  
RT EQUATIONS  
NONLINEARITY  
RADIATION

### VOLTMETERS

UF VOLTAGE VARIATION INDICATORS  
GS MEASURING INSTRUMENTS  
VOLTMETERS  
MILLIVOLTMETERS  
RT AMMETERS  
COULOMETERS  
ELECTROMETERS  
POTENTIOMETERS (INSTRUMENTS)

### VON KARMAN EQUATION

GS FLOW EQUATIONS  
VON KARMAN EQUATION

**VON KARMAN EQUATION-(CONT.)**

RT  $\infty$  EQUATIONS  
FLOW STABILITY  
KARMAN VORTEX STREET  
VORTEX BREAKDOWN  
VORTEX STREETS  
VORTICITY EQUATIONS

**VOODOO AIRCRAFT**

USE F-101 AIRCRAFT

**VOR SYSTEMS**

USE VHF OMNIRANGE NAVIGATION

**VORTEX ADVISORY SYSTEM**

RT AIR TRAFFIC CONTROL  
AIRCRAFT APPROACH SPACING  
AIRCRAFT WAKES  
 $\infty$  SYSTEMS  
TURBULENT WAKES  
VORTEX ALLEVIATION

**VORTEX ALLEVIATION**

RT AIRCRAFT WAKES  
DRAG DEVICES  
GUST ALLEVIATORS  
PROTUBERANCES  
RIBBLETS  
SPOILERS  
VORTEX ADVISORY SYSTEM  
VORTICES  
WAKES  
WINGLETS

**VORTEX AVOIDANCE**

GS AVOIDANCE  
VORTEX AVOIDANCE  
RT AERODYNAMIC STABILITY  
AIR TRAFFIC CONTROL  
AIRCRAFT APPROACH SPACING  
AIRCRAFT LANDING  
BUFFETING  
GUSTS  
ROTATION  
SAFETY  
TURBULENT FLOW  
VORTICES  
WINGLETS

**VORTEX BREAKDOWN**

RT FLOW STABILITY  
TURBULENT FLOW  
VON KARMAN EQUATION  
VORTEX FLAPS

**VORTEX COLUMNS**

USE VORTICES

**VORTEX DISTURBANCES**

USE VORTICES

**VORTEX FILAMENTS**

RT  $\infty$  FILAMENTS  
FLOW STABILITY  
FLUID DYNAMICS  
HORSESHOE VORTICES  
TURBULENCE  
VORTICES

**VORTEX FLAPS**

GS AIRFOILS  
FLAPS (CONTROL SURFACES)  
WING FLAPS  
VORTEX FLAPS  
BRAKES (FOR ARRESTING MOTION)  
AERODYNAMIC BRAKES  
WING FLAPS  
VORTEX FLAPS  
CONTROL SURFACES  
FLAPS (CONTROL SURFACES)  
WING FLAPS  
VORTEX FLAPS  
DRAG DEVICES  
AERODYNAMIC BRAKES  
WING FLAPS  
VORTEX FLAPS  
RT AERODYNAMIC DRAG  
JET FLAPS  
LEADING EDGE FLAPS  
LEADING EDGES  
LIFT AUGMENTATION  
SEPARATED FLOW  
TRAILING EDGE FLAPS  
TRAILING EDGES

**VORTEX FLAPS-(CONT.)**

VORTEX BREAKDOWN  
VORTICES  
WING LOADING

**VORTEX FLOW**

USE VORTICES

**VORTEX GENERATION**

USE VORTEX GENERATORS

**VORTEX GENERATORS**

UF VORTEX GENERATION  
RT AIRFOIL FENCES  
BOUNDARY LAYER CONTROL  
BOUNDARY LAYER SEPARATION  
 $\infty$  GENERATORS  
HILSCH TUBES  
HORSESHOE VORTICES  
INLET FLOW  
VORTICES  
WING SLOTS

**VORTEX INJECTORS**

GS INJECTORS  
VORTEX INJECTORS

**VORTEX PRECESSION**

RT FLOW VELOCITY  
FLOWMETERS  
PRECESSION  
VELOCITY MEASUREMENT  
VORTICES

**VORTEX RINGS**

RT HORSESHOE VORTICES  
RINGS  
 $\infty$  TRAPPED VORTICES  
VORTICES

**VORTEX SHEETS**

RT AIRCRAFT DESIGN  
FLOW DISTRIBUTION  
ROTATING FLUIDS  
 $\infty$  SHEETS  
TURBULENT WAKES  
VORTICES  
VORTICITY

**VORTEX STREETS**

GS VORTEX STREETS  
KARMAN VORTEX STREET  
RT DISCONTINUITY  
 $\infty$  SHEETS  
TURBULENT WAKES  
VON KARMAN EQUATION  
VORTICES

**VORTEX TRAPS**

USE TRAPPED VORTICES

**VORTEX TUBES**

USE HILSCH TUBES  
VORTICES

**VORTEX-BLADE INTERACTION**

USE BLADE-VORTEX INTERACTION

**VORTICES**

UF EDDIES  
ROTATIONAL FLOW  
VORTEX COLUMNS  
VORTEX DISTURBANCES  
VORTEX FLOW  
VORTEX TUBES  
GS VORTICES  
HORSESHOE VORTICES  
TRAPPED VORTICES  
WING TIP VORTICES  
RT ABRIKOSOV THEORY  
AGITATION  
BLADE-VORTEX INTERACTION  
CAVITATION FLOW  
COUNTERFLOW  
 $\infty$  DISTURBANCES  
DIVERGENCE  
FLOW DISTORTION  
FLOW STABILITY  
FLUID FLOW  
GOERTLER INSTABILITY  
HILSCH TUBES  
KOLMOGOROFF THEORY  
METEOROLOGICAL SOLENOIDS  
MIXING

**VORTICES-(CONT.)**

PLANETARY WAVES  
RECIRCULATIVE FLUID FLOW  
ROTATING FLUIDS  
ROTATING LIQUIDS  
ROTATION  
SECONDARY FLOW  
STROUHAL NUMBER  
SUPERCONDUCTIVITY  
SUPERFLUIDITY  
THRUST DISTRIBUTION  
TURBULENCE  
TURBULENT FLOW  
TURBULENT MIXING  
VORTEX ALLEVIATION  
VORTEX AVOIDANCE  
VORTEX FILAMENTS  
VORTEX FLAPS  
VORTEX GENERATORS  
VORTEX PRECESSION  
VORTEX RINGS  
VORTEX SHEDDING  
VORTEX SHEETS  
VORTEX STREETS  
VORTICITY  
WAKES

**VORTICITY**

UF ENSTROPY  
GS ALGEBRA  
VECTOR SPACES  
VECTORS (MATHEMATICS)  
VORTICITY  
ANALYSIS (MATHEMATICS)  
CALCULUS  
VECTOR ANALYSIS  
CURL (VECTORS)  
VORTICITY  
REAL VARIABLES  
VECTOR ANALYSIS  
CURL (VECTORS)  
VORTICITY  
GEOMETRY  
VECTOR ANALYSIS  
CURL (VECTORS)  
VORTICITY  
RT ATMOSPHERIC CIRCULATION  
BELTRAMI FLOW  
CROCCO METHOD  
FLOW STABILITY  
HELMHOLTZ VORTICITY EQUATION  
HORSESHOE VORTICES  
POTENTIAL FLOW  
SECONDARY FLOW  
TRAPPED VORTICES  
TURBULENCE  
VORTEX SHEETS  
VORTICES

**VORTICITY EQUATIONS**

GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
DIFFERENTIAL EQUATIONS  
VORTICITY EQUATIONS  
HELMHOLTZ VORTICITY EQUATION  
FLOW EQUATIONS  
VORTICITY EQUATIONS  
HELMHOLTZ VORTICITY EQUATION  
RT  $\infty$  EQUATIONS  
KARMAN VORTEX STREET  
VON KARMAN EQUATION

**VORTICITY TRANSPORT HYPOTHESIS**

GS HYPOTHESES  
VORTICITY TRANSPORT HYPOTHESIS  
RT CONSERVATION EQUATIONS  
EDDY CURRENTS  
MIXING LENGTH FLOW THEORY  
TURBULENT FLOW

**VOYAGEUR HELICOPTER**

USE CH-46 HELICOPTER

**VTOL**

USE VERTICAL LANDING  
VERTICAL TAKEOFF

**VTOL AIRCRAFT**

USE VERTICAL TAKEOFF AIRCRAFT

**VULCAN AIRCRAFT**

UF AVRO 698 AIRCRAFT  
GS ATTACK AIRCRAFT  
BOMBER AIRCRAFT  
VULCAN AIRCRAFT

## VZ-2 AIRCRAFT

### VULCAN AIRCRAFT-(CONT.)

HAWKER SIDDELEY AIRCRAFT  
 . VULCAN AIRCRAFT  
 JET AIRCRAFT  
 . VULCAN AIRCRAFT  
 TAILLESS AIRCRAFT  
 . VULCAN AIRCRAFT  
 RT ∞ AIRCRAFT  
 AVRO 707 AIRCRAFT  
 HARRIER AIRCRAFT

### VZ-2 AIRCRAFT

GS BOEING AIRCRAFT  
 . VZ-2 AIRCRAFT  
 RESEARCH AIRCRAFT  
 . VZ-2 AIRCRAFT  
 TILT WING AIRCRAFT  
 . VZ-2 AIRCRAFT  
 V/STOL AIRCRAFT  
 . VZ-2 AIRCRAFT  
 RT ∞ AIRCRAFT

### VZ-8 AIRCRAFT

UF AIRGEOP AIRCRAFT  
 GS LIGHT AIRCRAFT  
 . VZ-8 AIRCRAFT  
 PIASECKI AIRCRAFT  
 . VZ-8 AIRCRAFT  
 RESEARCH AIRCRAFT  
 . VZ-8 AIRCRAFT  
 V/STOL AIRCRAFT  
 . VERTICAL TAKEOFF AIRCRAFT  
 . VZ-8 AIRCRAFT  
 RT ∞ AIRCRAFT  
 FLYING PLATFORMS

## W

### W WINGS

USE VARIABLE SWEEP WINGS

### WAKES

GS WAKES  
 . AIRCRAFT WAKES  
 . . HELICOPTER WAKES  
 . . SLIPSTREAMS  
 . . . PROPELLER SLIPSTREAMS  
 . HYPERSONIC WAKES  
 . LAMINAR WAKES  
 . NEAR WAKES  
 . SUPERSONIC WAKES  
 . TURBULENT WAKES  
 . . SLIPSTREAMS  
 . . . PROPELLER SLIPSTREAMS  
 RT BACKWASH  
 BASE FLOW  
 BUBBLES  
 CAVITATION FLOW  
 CONTRAILS  
 DOWNWASH  
 ∞ DRAFT  
 DRAG  
 GROUND EFFECT (AERODYNAMICS)  
 HORSESHOE VORTICES  
 STROUHAL NUMBER  
 TURBULENCE  
 VORTEX ALLEVIATION  
 VORTICES

### WALL FLOW

GS FLUID FLOW  
 . WALL FLOW  
 RT BOUNDARY LAYER FLOW  
 CHANNEL FLOW  
 CONICAL FLOW  
 DISCHARGE COEFFICIENT  
 DUCTED FLOW  
 GOERTLER INSTABILITY  
 HEAT TRANSMISSION  
 MANNING THEORY  
 TWO DIMENSIONAL FLOW  
 TWO DIMENSIONAL JETS

### WALL JETS

RT FLUID AMPLIFIERS  
 JET BOUNDARIES  
 JET FLOW  
 JET VANES  
 ∞ JETS

### WALL PRESSURE

GS PRESSURE

### WALL PRESSURE-(CONT.)

RT . WALL PRESSURE  
 BOUNDARY LAYERS  
 PRESSURE DISTRIBUTION  
 PRESSURE VESSELS  
 THICK WALLS

### WALL TEMPERATURE

GS SURFACE PROPERTIES  
 . SURFACE TEMPERATURE  
 . . WALL TEMPERATURE  
 TEMPERATURE  
 . SURFACE TEMPERATURE  
 . . WALL TEMPERATURE  
 RT OPERATING TEMPERATURE  
 THICK WALLS

### WANKEL ENGINES

GS ENGINES  
 . INTERNAL COMBUSTION ENGINES  
 . . ROTARY ENGINES  
 . . . WANKEL ENGINES  
 RT AIRCRAFT ENGINES  
 AUTOMOBILE ENGINES  
 PISTON ENGINES

### WARMING

USE HEATING

### WARNING STAR AIRCRAFT

USE EC-121 AIRCRAFT

### WASTE ENERGY UTILIZATION

GS UTILIZATION  
 . WASTE ENERGY UTILIZATION  
 RT BOILERS  
 BURNERS  
 CHIMNEYS  
 COGENERATION  
 ENERGY CONVERSION  
 EXHAUST GASES  
 FURNACES  
 HEAT TRANSFER  
 HEATING  
 INCINERATORS  
 LIGHTING EQUIPMENT  
 OVENS  
 SOLID WASTES  
 SPACE HEATING (BUILDINGS)  
 WASTE HEAT  
 WASTES

### WASTE HEAT

RT ENERGY TECHNOLOGY  
 HEAT EXCHANGERS  
 HEAT PUMPS  
 WASTE ENERGY UTILIZATION

### WATCHES

USE CLOCKS

### WATER

GS WATER  
 . COLD WATER  
 . DEEP WATER  
 . FRESH WATER  
 . HEAVY WATER  
 . INLAND WATERS  
 . . GROUND WATER  
 . LIGHT WATER  
 . NEARSHORE WATER  
 . . COASTAL WATER  
 . POLYWATER  
 . POTABLE WATER  
 . SEA WATER  
 . SHALLOW WATER  
 . SHOALS  
 . SPRINGS (WATER)  
 . SURFACE WATER  
 . VADOSE WATER  
 . WASTE WATER  
 RT AQUIFERS  
 ARROYOS  
 BAY ICE  
 BODY FLUIDS  
 CAVITATION FLOW  
 FIORDS  
 HUMIDITY  
 HYDRATES  
 ∞ HYDRAULICS  
 HYDRODYNAMICS  
 HYDROGEN BONDS  
 HYDROGEN COMPOUNDS  
 HYDROLOGY  
 HYDROMECHANICS

### WATER-(CONT.)

HYDROSTATICS  
 ICE  
 ISTHUSES  
 LAKE ERIE  
 LAKE HURON  
 LAKE ICE  
 LAKE MICHIGAN  
 LAKE ONTARIO  
 LAKE SUPERIOR  
 LATERITES  
 LIFE SUPPORT SYSTEMS  
 LIMNOLOGY  
 LIQUIDS  
 MODERATORS  
 MOISTURE  
 MOISTURE CONTENT  
 MUSKEGS  
 OXIDES  
 PENINSULAS  
 POLLUTION  
 PRECIPITATION (METEOROLOGY)  
 RUNWAY CONDITIONS  
 SLUSH  
 SOUNDS (TOPOGRAPHIC FEATURES)  
 STEAM  
 STRAITS  
 UTILITIES  
 WATERSHEDS  
 WHARVES  
 WINDPOWERED PUMPS

### WATER CIRCULATION

GS CIRCULATION  
 . WATER CIRCULATION  
 . . WATER CURRENTS  
 . . . OCEAN CURRENTS  
 . . . . COASTAL CURRENTS  
 . . . . EL NINO  
 . . . . GULF STREAM  
 . . . . LOMONOSOV CURRENT  
 RT LAKES  
 OCEANOGRAPHY  
 POLLUTION TRANSPORT  
 WIND EFFECTS

### WATER COOLING

USE LIQUID COOLING

### WATER CURRENTS

UF CURRENTS (OCEANOGRAPHY)  
 GS CIRCULATION  
 . WATER CIRCULATION  
 . . WATER CURRENTS  
 . . . OCEAN CURRENTS  
 . . . . COASTAL CURRENTS  
 . . . . EL NINO  
 . . . . GULF STREAM  
 . . . . LOMONOSOV CURRENT  
 RT ARROYOS  
 ∞ CURRENTS  
 OCEANOGRAPHY  
 RAPIDS  
 SEA ROUGHNESS  
 SEA STATES  
 SURFACE WAVES  
 TIDES  
 UPSTREAM

### WATER FLOW

GS FLUID FLOW  
 . LIQUID FLOW  
 . . WATER FLOW  
 RT ALLUVIUM  
 CANALS  
 DRAINAGE  
 DRAINAGE PATTERNS  
 FLOOD DAMAGE  
 FLOODS  
 FLOW MEASUREMENT  
 GREAT LAKES (NORTH AMERICA)  
 GROUND WATER  
 ∞ HYDRAULICS  
 HYDRODYNAMICS  
 HYDROLOGY MODELS  
 OPEN CHANNEL FLOW  
 PIPE FLOW  
 RAPIDS  
 WATERSHEDS

### WATER HAMMER

RT HYDRAULIC EQUIPMENT  
 HYDRODYNAMICS  
 PIPE FLOW  
 PIPELINES



**WATER HAMMER-(CONT.)**

RAMS (PUMPS)  
SURGES  
VALVES

**WATER IMMERSION**

RT BATHS  
LIQUID COOLING  
QUENCHING (COOLING)  
SINKING  
∞ SOAKING  
SUBMERGED BODIES  
SUBMERGING  
UNDERWATER TESTS

**WATER INJECTION**

GS INJECTION  
FLUID INJECTION  
LIQUID INJECTION  
WATER INJECTION  
RT GAS INJECTION  
PERFORATING  
THRUST AUGMENTATION

**WATER JETS**

USE HYDRAULIC JETS

**WATER LANDING**

GS LANDING  
WATER LANDING  
DITCHING (LANDING)  
RT AIRCRAFT LANDING  
CRASH LANDING  
GLIDE LANDINGS  
HARD LANDING  
HORIZONTAL SPACECRAFT LANDING  
HYDROPLANING  
PLANETARY LANDING  
SOFT LANDING  
SPACECRAFT LANDING  
SPACECRAFT RECOVERY  
SPLASHING  
TOUCHDOWN

**WATER PRESSURE**

GS PRESSURE  
FLUID PRESSURE  
WATER PRESSURE  
RT ∞ HYDRAULICS  
HYDRODYNAMICS  
HYDROSTATIC PRESSURE  
HYDROSTATICS  
INLET PRESSURE  
PIPE FLOW

**WATER TAKEOFF AND LANDING AIRCRAFT**

GS WATER TAKEOFF AND LANDING  
AIRCRAFT  
SEAPLANES  
RT ∞ AIRCRAFT  
AMPHIBIOUS AIRCRAFT  
ANTISUBMARINE WARFARE AIRCRAFT  
COMMERCIAL AIRCRAFT  
GROUND EFFECT MACHINES  
HOVERCRAFT GROUND EFFECT  
MACHINES  
LIGHT AIRCRAFT  
MONOPLANES  
PASSENGER AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
S-61 HELICOPTER  
SEA LAUNCHING  
SUBMERSIBLE AIRCRAFT  
∞ SUBSONIC AIRCRAFT  
TRANSPORT AIRCRAFT  
UTILITY AIRCRAFT

**WATER TUNNEL TESTS**

RT AIR WATER INTERACTIONS  
CROSS FLOW  
FLOW DISTRIBUTION  
FLOW VISUALIZATION  
STRAKES  
∞ TESTS  
WATER WAVES  
WIND TUNNEL TESTS

**WATER TUNNELS**

USE HYDRAULIC TEST TUNNELS

**WATER VAPOR**

GS VAPORS  
WATER VAPOR  
RT ATMOSPHERIC MOISTURE

**WATER VAPOR-(CONT.)**

DEW  
HUMIDITY  
MOISTURE  
MOISTURE CONTENT  
STEAM

**WATER VEHICLES**

GS WATER VEHICLES  
BOATS  
LIFEBOATS  
CAPTURED AIR BUBBLE VEHICLES  
SHIPS  
ADVANCED RANGE  
INSTRUMENTATION SHIP  
AIRCRAFT CARRIERS  
CARGO SHIPS  
SAVANNAH NUCLEAR SHIP  
TANKER SHIPS  
NUCLEAR POWERED SHIPS  
SAVANNAH NUCLEAR SHIP  
SATELLITE COMMUNICATIONS SHIPS  
SUBMARINES  
BALLISTIC MISSILE SUBMARINES  
GUIDED MISSILE SUBMARINES  
TRIDENT SUBMARINE  
SURFACE EFFECT SHIPS  
SWATH (SHIP)  
UNDERWATER VEHICLES  
SUBMARINES  
BALLISTIC MISSILE SUBMARINES  
GUIDED MISSILE SUBMARINES  
TRIDENT SUBMARINE  
UNDERWATER RESEARCH  
LABORATORIES  
RT AMPHIBIOUS VEHICLES  
HARBORS  
MARINE TRANSPORTATION  
MILITARY VEHICLES  
RESEARCH VEHICLES  
SHIPYARDS  
SURFACE VEHICLES  
VEHICLES

**WATER WAVES**

GS WATER WAVES  
TIDAL WAVES  
RT BREAKWATERS  
CAPILLARY WAVES  
CNOIDAL WAVES  
ELASTOHYDRODYNAMICS  
FRONTAL WAVES  
GRAVITY WAVES  
HYDRODYNAMIC COEFFICIENTS  
LITTORAL TRANSPORT  
OCEAN DYNAMICS  
RIPPLES  
SEA ROUGHNESS  
SEA STATES  
SURFACE WAVES  
TSUNAMI WAVES  
WATER TUNNEL TESTS  
WATERWAVE ENERGY  
WATERWAVE ENERGY CONVERSION  
WATERWAVE POWERED MACHINES  
WAVES

**WAVE ATTENUATION**

GS ATTENUATION  
WAVE ATTENUATION  
ACOUSTIC ATTENUATION  
SHOCK WAVE ATTENUATION  
RADAR ATTENUATION  
RADIO ATTENUATION  
RT ATMOSPHERIC ATTENUATION  
ELECTROMAGNETIC ABSORPTION  
INFRARED ABSORPTION  
RADAR TRANSMISSION  
RADIO TRANSMISSION  
SHOCK WAVE PROPAGATION

**WAVE DEGRADATION**

GS DEGRADATION  
WAVE DEGRADATION  
RT ATTENUATION  
SCATTERING  
SHOCK WAVE INTERACTION

**WAVE DRAG**

GS DYNAMIC CHARACTERISTICS  
DRAG  
PRESSURE DRAG  
WAVE DRAG  
INTERFERENCE DRAG  
RT FRICTION DRAG

**WAVE DRAG-(CONT.)**

SUPERSONIC DRAG

**WAVE EQUATIONS**

SN (NOT EQUATIONS OF MOTION)  
GS WAVE EQUATIONS  
DIRAC EQUATION  
EIKONAL EQUATION  
KLEIN-GORDON EQUATION  
KORTEWEG-DEVIRES EQUATION  
LAME WAVE EQUATIONS  
SCHRÖDINGER EQUATION  
RT BOLTZMANN-VLASOV EQUATION  
DENSITY WAVE MODEL  
EQUATIONS  
FORBIDDEN BANDS  
HELMHOLTZ EQUATIONS  
HYPERBOLIC DIFFERENTIAL EQUATIONS  
PARTIAL DIFFERENTIAL EQUATIONS  
QUANTUM THEORY

**WAVE EXCITATION**

GS EXCITATION  
WAVE EXCITATION  
ACOUSTIC EXCITATION  
HARMONIC EXCITATION  
RT DIFFRACTION RADIATION  
STROKING TESTS  
WAVES

**WAVE FRONT DEFORMATION**

GS DEFORMATION  
WAVE FRONT DEFORMATION  
RT INTERFERENCE

**WAVE FRONT RECONSTRUCTION**

GS RECONSTRUCTION  
WAVE FRONT RECONSTRUCTION  
RT ACOUSTICAL HOLOGRAPHY  
DIFFRACTOMETERS  
HOLOGRAPHIC INTERFEROMETRY  
HOLOGRAPHIC SPECTROSCOPY  
HOLOGRAPHY  
KINOFORM  
MICROWAVE HOLOGRAPHY  
PHOTOGRAPHY  
WHITE LIGHT HOLOGRAPHY

**WAVE FRONTS**

GS WAVE FRONTS  
SHOCK FRONTS  
RT CAUSTIC LINES  
EIKONAL EQUATION  
FRONTS  
HUYGENS PRINCIPLE  
PHASE COHERENCE  
PHASE VELOCITY  
SHOCK DISCONTINUITY  
WAVES

**WAVE FUNCTIONS**

GS WAVE FUNCTIONS  
MOLECULAR ORBITALS  
PAULI EXCLUSION PRINCIPLE  
RT FORBIDDEN TRANSITIONS  
HARTREE APPROXIMATION  
PERTURBATION THEORY  
SQUARE WAVES  
TIME FUNCTIONS

**WAVE MOTION**

USE WAVES

**WAVE RESISTANCE**

RT BLAST LOADS  
EROSION  
IMPACT STRENGTH  
RESISTANCE  
STRUCTURAL STABILITY

**WAVEFORMS**

GS WAVEFORMS  
PULSE AMPLITUDE  
PULSE DURATION  
SAWTOOTH WAVEFORMS  
SQUARE WAVES  
RT FORM FACTORS  
SPEECH BASEBAND COMPRESSION  
TIME FUNCTIONS  
WAVE PROPAGATION

**WAVEGUIDE WINDOWS**

RT IMPEDANCE MATCHING  
IRISES (MECHANICAL APERTURES)

## WAVERIDERS

### WAVEGUIDE WINDOWS-(CONT.)

∞ WINDOWS

#### WAVERIDERS

GS AERODYNAMIC CONFIGURATIONS  
 . **WAVERIDERS**  
 RT AIRFOILS  
 CARET WINGS  
 DELTA WINGS  
 HYPERSONIC FLIGHT  
 HYPERSONIC VEHICLES  
 LIFTING BODIES

∞ WAVES

SN *(USE OF A MORE SPECIFIC TERM IS  
 RECOMMENDED-CONSULT THE TERMS  
 LISTED BELOW)*  
 UF CRESTS  
 WAVE MOTION  
 RT BAROCLINIC WAVES  
 BREAKWATERS  
 CNOIDAL WAVES  
 CORRUGATING  
 CYLINDRICAL WAVES  
 DETONATION WAVES  
 DILATATIONAL WAVES  
 EIKONAL EQUATION  
 ELASTIC WAVES  
 ELECTROACOUSTIC WAVES  
 ELECTROMAGNETIC RADIATION  
 ELECTROMAGNETIC SURFACE WAVES  
 FRONTAL WAVES  
 GRAVITATIONAL WAVES  
 INTERNAL WAVES  
 IONIC WAVES  
 KILOMETRIC WAVES  
 LITTORAL TRANSPORT  
 LONGITUDINAL WAVES  
 NODES (STANDING WAVES)  
 PLANE WAVES  
 PLANETARY WAVES  
 REFRACTED WAVES  
 SEISMIC WAVES  
 SH WAVES  
 SHOCK WAVES  
 SINE WAVES  
 SOUND WAVES  
 SPHERICAL WAVES  
 SQUARE WAVES  
 STANDING WAVES  
 STRESS WAVES  
 SURFACE WAVES  
 SURGES  
 TIDAL WAVES  
 TRANSVERSE WAVES  
 TROPOSPHERIC WAVES  
 VIBRATION  
 WATER WAVES  
 WATERWAVE ENERGY  
 WAVE AMPLIFICATION  
 WAVE EXCITATION  
 WAVE FRONTS

#### WEAR TESTS

RT CUMULATIVE DAMAGE  
 DESTRUCTIVE TESTS  
 EROSION  
 FERROGRAPHY  
 FRETTING  
 FRICTION  
 HARDNESS TESTS  
 ∞ MATERIALS TESTS  
 QUALITY CONTROL  
 SPALLING  
 STATIC TESTS  
 ∞ TESTS  
 WEAR RESISTANCE

#### WEATHER RECONNAISSANCE AIRCRAFT

GS RECONNAISSANCE AIRCRAFT  
 . **WEATHER RECONNAISSANCE  
 AIRCRAFT**  
 RT ∞ AIRCRAFT  
 GLOBAL ATMOSPHERIC RESEARCH  
 PROGRAM  
 METEOROLOGICAL INSTRUMENTS  
 OBSERVATION AIRCRAFT  
 RB-50 AIRCRAFT

#### WEATHER STATIONS

UF METEOROLOGICAL STATIONS  
 STATIONS  
 GS . **WEATHER STATIONS**  
 . . . AUTOMATIC WEATHER STATIONS  
 RT GROUND STATIONS

### WEATHER STATIONS-(CONT.)

INSTRUMENT PACKAGES  
 INTEGRATED GLOBAL OCEAN STATION  
 SYSTEMS  
 METEOROLOGICAL INSTRUMENTS  
 METEOROLOGICAL SATELLITES  
 METEOROLOGICAL SERVICES  
 OCEAN DATA ACQUISITIONS SYSTEMS

#### WEBBING

RT FABRICS  
 MESH  
 ∞ WEBS  
 WEBS (SHEETS)

#### WEDGE FLOW

GS FLUID FLOW  
 . **WEDGE FLOW**  
 RT BLASIUS FLOW  
 CONICAL FLOW  
 FALKNER-SKAN EQUATION  
 FLOW GEOMETRY  
 LAMINAR FLOW  
 SHOCK WAVES  
 SUPERSONIC FLOW  
 THREE DIMENSIONAL FLOW  
 TWO DIMENSIONAL FLOW  
 VISCOUS FLOW

#### WEDGES

RT AERODYNAMIC CONFIGURATIONS  
 AIRFOIL PROFILES  
 AIRFOILS

#### WEIGHT (MASS)

UF WEIGHT FACTORS  
 GS **WEIGHT (MASS)**  
 . ATOMIC WEIGHTS  
 . BIOMASS  
 . BODY WEIGHT  
 . ORGAN WEIGHT  
 . STRUCTURAL WEIGHT  
 RT CENTER OF MASS  
 ∞ FORCE  
 GRAVITATION  
 LOADS (FORCES)  
 LOW MOLECULAR WEIGHTS  
 MASCONS  
 MASS  
 MOLECULAR WEIGHT  
 PAYLOADS  
 PRESSURE  
 VOLUME  
 ∞ WEIGHT

#### WEIGHT FACTORS

USE WEIGHT (MASS)

#### WEIGHT INDICATORS

UF WIND TUNNEL BALANCES  
 GS MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . **WEIGHT INDICATORS**  
 . . . MICROBALANCES  
 . . . STRAIN GAGE BALANCES  
 . . . THERMOBALANCES  
 RT BALANCE  
 MECHANICAL MEASUREMENT  
 PRESSURE GAGES  
 PRESSURE MEASUREMENT  
 ∞ SCALE  
 STRAIN GAGES  
 TENSOMETERS

#### WEIGHT MEASUREMENT

UF MICROWEIGHING  
 RT DENSITY (MASS/VOLUME)  
 HYDROMETERS  
 ∞ MEASUREMENT

#### WEIGHT REDUCTION

RT AIRCRAFT DESIGN  
 SPACECRAFT DESIGN  
 STRUCTURAL DESIGN  
 STRUCTURAL WEIGHT  
 SYSTEMS ANALYSIS

#### WEIGHTLESS FLUIDS

RT ∞ FLUIDS  
 VISCOUS FLUIDS

#### WESER AIRCRAFT

RT ∞ AIRCRAFT  
 HELICOPTERS

### WESER AIRCRAFT-(CONT.)

ROTARY WING AIRCRAFT  
 V/STOL AIRCRAFT

#### WESTLAND AIRCRAFT

GS **WESTLAND AIRCRAFT**  
 . P-531 HELICOPTER  
 . WESTLAND WHIRLWIND HELICOPTER  
 RT ∞ AIRCRAFT  
 HELICOPTERS  
 ROTARY WING AIRCRAFT  
 V/STOL AIRCRAFT

#### WESTLAND GROUND EFFECT MACHINES

UF SR-N2 GROUND EFFECT MACHINE  
 SR-N3 GROUND EFFECT MACHINE  
 SR-N5 GROUND EFFECT MACHINE  
 WESTLAND SR-N2 GROUND EFFECT  
 MACHINE  
 WESTLAND SR-N2 HOVERCRAFT  
 WESTLAND SR-N3 GROUND EFFECT  
 MACHINE  
 WESTLAND SR-N3 HOVERCRAFT  
 WESTLAND SR-N5 GROUND EFFECT  
 MACHINE  
 GS GROUND EFFECT MACHINES  
 . **WESTLAND GROUND EFFECT  
 MACHINES**  
 RT ∞ AIRCRAFT

#### WESTLAND MK-10 HELICOPTER

USE WESTLAND WHIRLWIND HELICOPTER

#### WESTLAND P-531 HELICOPTER

USE P-531 HELICOPTER

#### WESTLAND SR-N2 GROUND EFFECT MACHINE

USE WESTLAND GROUND EFFECT MACHINES

#### WESTLAND SR-N2 HOVERCRAFT

USE WESTLAND GROUND EFFECT MACHINES

#### WESTLAND SR-N3 GROUND EFFECT MACHINE

USE WESTLAND GROUND EFFECT MACHINES

#### WESTLAND SR-N3 HOVERCRAFT

USE WESTLAND GROUND EFFECT MACHINES

#### WESTLAND SR-N5 GROUND EFFECT MACHINE

USE WESTLAND GROUND EFFECT MACHINES

#### WESTLAND WHIRLWIND HELICOPTER

UF WESTLAND MK-10 HELICOPTER  
 WHIRLWIND MK-10 HELICOPTER  
 GS UTILITY AIRCRAFT  
 . **WESTLAND WHIRLWIND HELICOPTER**  
 V/STOL AIRCRAFT  
 . ROTARY WING AIRCRAFT  
 . . HELICOPTERS  
 . . . MILITARY HELICOPTERS  
 . . . . **WESTLAND WHIRLWIND  
 HELICOPTER**  
 WESTLAND AIRCRAFT  
 . **WESTLAND WHIRLWIND HELICOPTER**  
 RT ∞ AIRCRAFT

#### WETTABILITY

RT ADHESION  
 ADHESION TESTS  
 FORMATIONS  
 HYGROSCOPICITY  
 PERMEABILITY  
 POROSITY  
 SURFACE PROPERTIES  
 WETTING

#### WETTING

RT COOLING  
 DIPPING  
 FOAMING  
 INTERFACIAL TENSION  
 ∞ SATURATION  
 ∞ SOAKING  
 SOAPS  
 SPRAYING  
 SPRINKLING  
 SUBMERGING  
 WET SPINNING  
 WETTABILITY

#### WHEEL BRAKES

GS BRAKES (FOR ARRESTING MOTION)  
 . **WHEEL BRAKES**  
 RT AIRCRAFT BRAKES

**WHEEL BRAKES-(CONT.)**

AIRCRAFT SAFETY  
 ANTISKID DEVICES  
 CONTROLLABILITY  
 FRICTION  
 HYDRAULIC EQUIPMENT  
 LANDING GEAR  
 TIRES  
 VEHICLE WHEELS

**WHIRL INSTABILITY**

USE ROTARY STABILITY

**WHIRLWIND MK-10 HELICOPTER**

USE WESTLAND WHIRLWIND HELICOPTER

**WIENER HOPF EQUATIONS**

GS ANALYSIS (MATHEMATICS)  
 . FUNCTIONAL ANALYSIS  
 . INTEGRAL EQUATIONS  
 . . . WIENER HOPF EQUATIONS  
 RT ∞ EQUATIONS

**WIND (METEOROLOGY)**

GS **WIND (METEOROLOGY)**  
 . CIRCUMPOLAR WESTERLIES  
 . GROUND WIND  
 . GUSTS  
 . MONSOONS  
 . SEA BREEZE  
 . SQUALLS  
 . WINDS ALOFT  
 . GEOSTROPHIC WIND  
 . . JET STREAMS (METEOROLOGY)  
 RT AEOLIAN TONES  
 AEROLOGY  
 AIR CURRENTS  
 AIR POLLUTION  
 ALPINE METEOROLOGY  
 ANEMOMETERS  
 ATMOSPHERIC CIRCULATION  
 BAROTROPIC FLOW  
 ∞ BARRIERS  
 BLOWING  
 CLIMATOLOGY  
 CYCLONES  
 GRAVITY WAVES  
 HOT-FILM ANEMOMETERS  
 JIMSPHERE BALLOONS  
 MARINE METEOROLOGY  
 MERIDIONAL FLOW  
 MESOSCALE PHENOMENA  
 METEOROLOGY  
 MIXING HEIGHT  
 PRESSURE ICE  
 RIPPLES  
 STORM DAMAGE  
 STORMS  
 STORMS (METEOROLOGY)  
 THUNDERSTORMS  
 TIDAL WAVES  
 TORNADOES  
 UPWELLING WATER  
 VERTICAL AIR CURRENTS  
 WEATHER  
 WEATHER FORECASTING  
 WINDMILLS (WINDPOWERED MACHINES)  
 WINDPOWER UTILIZATION  
 WINDPOWERED GENERATORS  
 ZONAL FLOW (METEOROLOGY)

**WIND DIRECTION**

RT ATMOSPHERIC CIRCULATION  
 GROUND WIND  
 MERIDIONAL FLOW  
 SEA BREEZE  
 SMOKE TRAILS  
 UPSTREAM  
 UPWELLING WATER  
 WINDMILLS (WINDPOWERED MACHINES)  
 WINDPOWERED GENERATORS  
 ZONAL FLOW (METEOROLOGY)

**WIND EFFECTS**

RT ATMOSPHERIC EFFECTS  
 DUNES  
 DUST STORMS  
 ∞ EFFECTS  
 EROSION  
 GROUND WIND  
 PRESSURE EFFECTS  
 SEA BREEZE  
 SEA ROUGHNESS  
 SEA STATES  
 SOIL EROSION

**WIND EFFECTS-(CONT.)**

TURBULENCE  
 WATER CIRCULATION

**WIND ENERGY**

USE WINDPOWER UTILIZATION

**WIND PRESSURE**

GS PRESSURE  
 . **WIND PRESSURE**  
 RT DYNAMIC LOADS  
 GROUND WIND  
 GUST LOADS  
 LOADS (FORCES)  
 WINDPOWER UTILIZATION  
 WINDPOWERED GENERATORS

**WIND PROFILES**

RT ATMOSPHERIC CIRCULATION  
 GROUND WIND  
 ∞ PROFILES  
 RADIAL DISTRIBUTION  
 SMOKE TRAILS  
 VERTICAL DISTRIBUTION  
 ZONAL FLOW (METEOROLOGY)

**WIND SHEAR**

UF DUNGEYS WIND SHEAR MECHANISM  
 RT AVIATION METEOROLOGY  
 BAROTROPIC FLOW  
 CLEAR AIR TURBULENCE  
 GEOSTROPHIC WIND  
 GROUND WIND  
 MICROBURSTS (METEOROLOGY)

**WIND TUNNEL APPARATUS**

UF WIND TUNNEL BALANCES  
 GS **WIND TUNNEL APPARATUS**  
 . WIND TUNNEL DRIVES  
 . WIND TUNNEL NOZZLES  
 RT ∞ EQUIPMENT  
 SUPERSONIC TEST APPARATUS

**WIND TUNNEL BALANCES**

USE WEIGHT INDICATORS  
 WIND TUNNEL APPARATUS

**WIND TUNNEL CALIBRATION**

GS CALIBRATING  
 . **WIND TUNNEL CALIBRATION**  
 RT MEASURING INSTRUMENTS  
 PRESSURE MEASUREMENT  
 SCALING LAWS  
 TEMPERATURE MEASUREMENT

**WIND TUNNEL DRIVES**

GS WIND TUNNEL APPARATUS  
 . **WIND TUNNEL DRIVES**  
 RT ∞ DRIVES  
 ∞ FANS  
 MECHANICAL DRIVES  
 PLASMA GENERATORS  
 PRESSURE CHAMBERS  
 VACUUM CHAMBERS

**WIND TUNNEL MODELS**

GS MODELS  
 . **WIND TUNNEL MODELS**  
 . . POWERED MODELS  
 RT AERODYNAMIC CONFIGURATIONS  
 AIRCRAFT MODELS  
 DYNAMIC MODELS  
 FLOW VISUALIZATION  
 ∞ MISSILE SIMULATORS  
 PYLON MOUNTING  
 SCALE MODELS  
 SEMISPAN MODELS  
 SHADOWGRAPH PHOTOGRAPHY  
 ∞ TEST EQUIPMENT

**WIND TUNNEL NOZZLES**

GS WIND TUNNEL APPARATUS  
 . **WIND TUNNEL NOZZLES**  
 RT CONICAL NOZZLES  
 CONVERGENT-DIVERGENT NOZZLES  
 DIVERGENT NOZZLES  
 HYPERSONIC NOZZLES  
 ∞ NOZZLES  
 SUPERSONIC NOZZLES  
 TRANSONIC NOZZLES

**WIND TUNNEL STABILITY TESTS**

GS STABILITY TESTS  
**WIND TUNNEL STABILITY TESTS**

**WIND TUNNEL STABILITY TESTS-(CONT.)**

RT AERODYNAMIC STABILITY  
 AIRCRAFT STABILITY  
 MISSILE TESTS  
 SPACECRAFT STABILITY  
 ∞ TESTS

**WIND TUNNEL TESTS**

RT AERODYNAMIC CHARACTERISTICS  
 AIR DATA SYSTEMS  
 DENSITY MEASUREMENT  
 FLOW DISTRIBUTION  
 PRESSURE MEASUREMENT  
 ∞ TESTS  
 TRISONIC WIND TUNNELS  
 WATER TUNNEL TESTS

**WIND TUNNEL WALLS**

GS WALLS  
 . **WIND TUNNEL WALLS**  
 RT PRESSURE VESSELS  
 REINFORCED SHELLS

**WIND TUNNELS**

GS TEST FACILITIES  
 . **WIND TUNNELS**  
 . . BLOWDOWN WIND TUNNELS  
 . . COMBUSTION WIND TUNNELS  
 . . CRYOGENIC WIND TUNNELS  
 . . HYPERSONIC WIND TUNNELS  
 . . CASCADE WIND TUNNELS  
 . . HOTSHOT WIND TUNNELS  
 . . PLASMA JET WIND TUNNELS  
 . . SHOCK TUNNELS  
 . . HYPERVELOCITY WIND TUNNELS  
 . . CASCADE WIND TUNNELS  
 . . HOTSHOT WIND TUNNELS  
 . . PLASMA JET WIND TUNNELS  
 . . SHOCK TUNNELS  
 . . LOW DENSITY WIND TUNNELS  
 . . LOW SPEED WIND TUNNELS  
 . . SUBSONIC WIND TUNNELS  
 . . RECTANGULAR WIND TUNNELS  
 . . SLOTTED WIND TUNNELS  
 . . SUPERSONIC WIND TUNNELS  
 . . TRANSONIC WIND TUNNELS  
 . . TRISONIC WIND TUNNELS  
 RT AERODYNAMICS  
 EXHAUST FLOW SIMULATION  
 FLIGHT SIMULATORS  
 GAS GUNS  
 GAS STREAMS  
 HYPERSONIC FLOW  
 SPIKES (AERODYNAMIC CONFIGURATIONS)  
 SUPERSONIC FLOW  
 TEST CHAMBERS  
 ∞ TEST EQUIPMENT  
 TRANSONIC FLOW  
 ∞ TUNNELS

**WIND VANES**

GS DISPLAY DEVICES  
 . FLOW DIRECTION INDICATORS  
 . **WIND VANES**  
 . MEASURING INSTRUMENTS  
 . INDICATING INSTRUMENTS  
 . . FLOW DIRECTION INDICATORS  
 . . **WIND VANES**  
 . . METEOROLOGICAL INSTRUMENTS  
 . . **WIND VANES**  
 . VANES  
 . **WIND VANES**  
 RT ANEMOMETERS  
 HOT-FILM ANEMOMETERS

**WIND VARIATIONS**

GS VARIATIONS  
 . **WIND VARIATIONS**  
 RT ANNUAL VARIATIONS  
 ATMOSPHERIC TURBULENCE  
 DIURNAL VARIATIONS  
 SEASONS

**WIND VELOCITY**

GS RATES (PER TIME)  
 . **WIND VELOCITY**  
 . . SOLAR WIND VELOCITY  
 . VELOCITY  
 . **WIND VELOCITY**  
 . . SOLAR WIND VELOCITY  
 RT AIRSPEED  
 ANEMOMETERS  
 FLOW MEASUREMENT  
 GROUND WIND

## WIND VELOCITY MEASUREMENT

### WIND VELOCITY-(CONT.)

HOT-FILM ANEMOMETERS  
SEA ROUGHNESS  
WIND TURBINES  
WINDMILLS (WINDPOWERED MACHINES)  
WINDPOWER UTILIZATION  
WINDPOWERED GENERATORS

### WIND VELOCITY MEASUREMENT

GS MECHANICAL MEASUREMENT  
VELOCITY MEASUREMENT  
WIND VELOCITY MEASUREMENT  
WIND MEASUREMENT  
WIND VELOCITY MEASUREMENT  
RT ANEMOMETERS  
HOT-FILM ANEMOMETERS

### WINDMILLING

USE AUTOROTATION

### ∞ WINDOWS

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT INFRARED WINDOWS  
PORTS (OPENINGS)  
WAVEGUIDE WINDOWS  
WINDOWS (APERTURES)  
WINDOWS (INTERVALS)

### WINDOWS (APERTURES)

SN (EXCLUDES INTERVALS IN TIME,  
FREQUENCY, ENERGY AND SO ON)  
RT APERTURES  
∞ BARRIERS  
CURTAINS  
DOORS  
DUCTS  
OPENINGS  
OPTICAL MATERIALS  
PORTS (OPENINGS)  
SEPARATORS  
SHIELDING  
VENTS  
∞ WINDOWS  
WINDSHIELDS

### WINDPOWER UTILIZATION

UF WIND ENERGY  
GS UTILIZATION  
WINDPOWER UTILIZATION  
RT AIR CURRENTS  
AIR MASSES  
ATMOSPHERIC CIRCULATION  
CLEAN ENERGY  
EARTH RESOURCES  
GROUND WIND  
SEA BREEZE  
VANES  
WIND (METEOROLOGY)  
WIND PRESSURE  
WIND TURBINES  
WIND VELOCITY  
WINDMILLS (WINDPOWERED MACHINES)  
WINDPOWERED GENERATORS  
WINDPOWERED PUMPS

### WINDS ALOFT

GS WIND (METEOROLOGY)  
WINDS ALOFT  
GEOSTROPHIC WIND  
JET STREAMS (METEOROLOGY)  
RT CIRCUMPOLAR WESTERLIES  
SEA BREEZE  
VERTICAL AIR CURRENTS

### WINDSCREENS

USE WINDSHIELDS

### WINDSHIELDS

UF WINDSCREENS  
RT AIRCRAFT COMPARTMENTS  
CANOPIES  
COCKPITS  
ENVIRONMENTAL CONTROL  
LOCOMOTIVES  
SHIELDING  
WINDOWS (APERTURES)

### WING CAMBER

GS CAMBER  
WING CAMBER  
RT CAMBERED WINGS  
CONICAL CAMBER

### WING CAMBER-(CONT.)

MISSION ADAPTIVE WINGS

### WING FLAPS

UF JET AUGMENTED WING FLAPS  
GS AIRFOILS  
FLAPS (CONTROL SURFACES)  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
BRAKES (FOR ARRESTING MOTION)  
AERODYNAMIC BRAKES  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
AIRCRAFT BRAKES  
WING FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
CONTROL SURFACES  
FLAPS (CONTROL SURFACES)  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
DRAG DEVICES  
AERODYNAMIC BRAKES  
WING FLAPS  
LEADING EDGE FLAPS  
LEADING EDGE SLATS  
TRAILING EDGE FLAPS  
VORTEX FLAPS  
RT EXTERNALLY BLOWN FLAPS  
JET FLAPS  
SPLIT FLAPS

### WING FLOW METHOD TESTS

RT FLIGHT TESTS  
FLUID FLOW  
GROUND TESTS  
∞ METHODOLOGY  
TESTS  
TRANSONIC WIND TUNNELS

### WING LOADING

GS AERODYNAMIC FORCES  
WING LOADING  
LOADS (FORCES)  
DYNAMIC LOADS  
WING LOADING  
RT AERODYNAMIC LOADS  
AEROELASTICITY  
EDGE LOADING  
FORCE DISTRIBUTION  
GUST LOADS  
LEADING EDGE THRUST  
STATIC LOADS  
SWEEP EFFECT  
VORTEX FLAPS

### WING NACELLE CONFIGURATIONS

GS AERODYNAMIC CONFIGURATIONS  
WING NACELLE CONFIGURATIONS  
RT ∞ AIRCRAFT  
AIRFRAMES  
EXTERNALLY BLOWN FLAPS

### WING OSCILLATIONS

GS OSCILLATIONS  
AIRFOIL OSCILLATIONS  
WING OSCILLATIONS  
RT AERODYNAMIC STABILITY  
AEROELASTIC RESEARCH WINGS  
FLAPPING  
FLUTTER  
STABLE OSCILLATIONS  
UNDAMPED OSCILLATIONS  
UNSTEADY AERODYNAMICS  
VIBRATION

### WING PANELS

GS PANELS  
WING PANELS  
STRUCTURAL MEMBERS  
WING PANELS  
CURVED PANELS  
RECTANGULAR PANELS  
WINGS

### WING PLANFORMS

GS PLANFORMS  
WING PLANFORMS  
CHANNEL WINGS  
INFINITE SPAN WINGS  
SWEEPED FORWARD WINGS  
TRAPEZOIDAL WINGS  
SWEEPBACK WINGS  
ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
VARIABLE SWEEP WINGS  
RT HP-115 AIRCRAFT  
LOW ASPECT RATIO WINGS  
MONOPLANES  
OBLIQUE WINGS  
RECTANGULAR PLANFORMS  
SLENDER WINGS  
SWEEP WINGS  
SWING WINGS  
THRUST DISTRIBUTION  
UNSWEPT WINGS

### WING PROFILES

GS AIRFOIL PROFILES  
WING PROFILES  
WING SPAN  
RT AERODYNAMIC INTERFERENCE  
GAW-1 AIRFOIL  
GAW-2 AIRFOIL  
MISSION ADAPTIVE WINGS  
MONOPLANES  
SUPERCritical WINGS  
SWING WINGS  
WINGS

### WING ROOTS

RT AERODYNAMIC CONFIGURATIONS  
AIRCRAFT CONFIGURATIONS  
DROOPED AIRFOILS  
FAIRINGS  
∞ ROOTS

### WING SLATS

USE LEADING EDGE SLATS

### WING SLOTS

GS SLOTS  
WING SLOTS  
RT BOUNDARY LAYER CONTROL  
LEADING EDGE SLATS  
VORTEX GENERATORS

### WING SPAN

GS AIRFOIL PROFILES  
WING PROFILES  
WING SPAN  
RT ∞ SPAN  
SPANWISE BLOWING  
WINGS

### WING TANKS

GS TANKS (CONTAINERS)  
FUEL TANKS  
WING TANKS  
RT ∞ CONTAINERS  
EXTERNAL STORE SEPARATION  
EXTERNAL STORES  
EXTERNAL TANKS  
JETTISON SYSTEMS  
WING-FUSELAGE STORES

### WING TIP VORTICES

GS VORTICES  
WING TIP VORTICES  
RT BLADE-VORTEX INTERACTION  
FLOW DISTORTION  
HORSESHOE VORTICES  
ROTATING FLUIDS

### WING TIPS

GS TIPS  
WING TIPS  
RT AIRFOIL PROFILES  
BLADE TIPS  
JOINED WINGS  
WINGS

### WING-FUSELAGE STORES

RT EXTERNAL STORE SEPARATION  
EXTERNAL STORES  
FUSELAGES  
NACELLES  
PODS (EXTERNAL STORES)

WING-FUSELAGE STORES-(CONT.)

PROTUBERANCES  
∞ STORAGE  
STORAGE TANKS  
TANKS (CONTAINERS)  
WEAPONS  
WING TANKS

∞ WINGED VEHICLES

SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)

RT ∞ AIRCRAFT  
B-1 AIRCRAFT  
DRONE VEHICLES  
FIREBEE 2 TARGET DRONE AIRCRAFT  
GLIDERS  
HANG GLIDERS  
HYPERSONIC VEHICLES  
JET AIRCRAFT  
KA-6 SAILPLANES  
LAUNCH VEHICLES  
LEADING EDGE FLAPS  
MAN POWERED AIRCRAFT  
MISSILES  
MONOPLANES  
RECOVERABLE LAUNCH VEHICLES  
RECOVERABLE SPACECRAFT  
REENTRY VEHICLES  
RESEARCH AIRCRAFT  
ROCKET VEHICLES  
SHORT TAKEOFF AIRCRAFT  
SUPERCritical WINGS  
ULTRALIGHT AIRCRAFT  
∞ VEHICLES  
VERTICAL TAKEOFF AIRCRAFT  
WINGS

WINGLETS

RT DRAG REDUCTION  
FINS  
PROTUBERANCES  
VORTEX ALLEVIATION  
VORTEX AVOIDANCE  
WINGS

WINGS

UF CANTILEVER WINGS  
GS AIRFOILS  
WINGS  
AEROELASTIC RESEARCH WINGS  
CAMBERED WINGS  
CARET WINGS  
CHANNEL WINGS  
CRUCIFORM WINGS  
FIXED WINGS  
FLEXIBLE WINGS  
PARAWINGS  
GAW-1 AIRFOIL  
GAW-2 AIRFOIL  
JOINED WINGS  
LOW ASPECT RATIO WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
MISSION ADAPTIVE WINGS  
OBLIQUE WINGS  
RIGID WINGS  
ROTARY WINGS  
CIRCULATION CONTROL ROTORS  
LIFTING ROTORS  
BEARINGLESS ROTORS  
RIGID ROTORS  
TILTING ROTORS  
TIP DRIVEN ROTORS  
X WING ROTORS  
SLENDER WINGS  
INFINITE SPAN WINGS  
SUPERCritical WINGS  
SWEEP WINGS  
SWEEP FORWARD WINGS  
TRAPEZOIDAL WINGS  
SWEEPBACK WINGS  
ARROW WINGS  
DELTA WINGS  
TRAPEZOIDAL WINGS  
SWING WINGS  
THIN WINGS  
INFINITE SPAN WINGS  
TWISTED WINGS  
UNCAMBERED WINGS  
RING WINGS  
UNSWEEP WINGS  
INFINITE SPAN WINGS  
RECTANGULAR WINGS  
RING WINGS

WINGS-(CONT.)

RT ∞ VARIABLE SWEEP WINGS  
AIRCRAFT CONSTRUCTION MATERIALS  
AIRCRAFT PARTS  
AIRCRAFT STRUCTURES  
AIRFOIL FENCES  
AIRFRAMES  
ASPECT RATIO  
BLUNT TRAILING EDGES  
BODY-WING AND TAIL CONFIGURATIONS  
BODY-WING CONFIGURATIONS  
COATINGS  
CONTROL SURFACES  
DROOPED AIRFOILS  
DUAL WING CONFIGURATIONS  
LEADING EDGE FLAPS  
MISSILE COMPONENTS  
POROUS BOUNDARY LAYER CONTROL  
ROTORS  
SPOILERS  
WING PANELS  
WING PROFILES  
WING SPAN  
WING TIPS  
∞ WINGED VEHICLES  
WINGLETS

WOODEN STRUCTURES

RT PLYWOOD  
∞ STRUCTURES  
WOOD

WORK SOFTENING

GS SOFTENING  
WORK SOFTENING  
RT MICROSTRUCTURE  
PLASTIC DEFORMATION  
WORK HARDENING

WORKHORSE HELICOPTER

USE CH-21 HELICOPTER

WORKING FLUIDS

RT CONSUMABLES (SPACECRAFT)  
FERROFLUIDS  
FLUID POWER  
FLUID TRANSMISSION LINES  
∞ FLUIDS  
HIGH TEMPERATURE FLUIDS  
HYDRAULIC FLUIDS  
JET CONDENSERS  
PHASE CHANGE MATERIALS  
TRANSMISSION FLUIDS

WRECKAGE

RT ACCIDENT INVESTIGATION  
ACCIDENTS  
CRASHES  
SABOTAGE  
SPACECRAFT BREAKUP

WU-2 AIRCRAFT

USE U-2 AIRCRAFT

W2F AIRCRAFT

USE E-2 AIRCRAFT

X

X RAY ANALYSIS

SN (EXCLUDES X RAY STRESS ANALYSIS)  
GS X RAY ANALYSIS  
LAUE METHOD  
X RAY SPECTROSCOPY  
RT ∞ ANALYZING  
CHEMICAL ANALYSIS  
CRYSTALLOGRAPHY  
DEFECTS  
FLUOROSCOPY  
LATTICE PARAMETERS  
∞ MATERIALS TESTS  
MICROANALYSIS  
MICROBEAMS  
RADIOGRAPHY  
RADIOLOGY  
STEREOCHEMISTRY  
TOMOGRAPHY

X WING ROTORS

GS AIRFOILS  
WINGS

X WING ROTORS-(CONT.)

∞ ROTARY WINGS  
X WING ROTORS  
ROTATING BODIES  
ROTORS  
ROTARY WINGS  
X WING ROTORS  
RT CIRCULATION CONTROL ROTORS  
∞ ROTOR BLADES

X-1 AIRCRAFT

GS BELL AIRCRAFT  
X-1 AIRCRAFT  
MONOPLANES  
X-1 AIRCRAFT  
RESEARCH AIRCRAFT  
X-1 AIRCRAFT  
ROCKET VEHICLES  
ROCKET PLANES  
X-1 AIRCRAFT  
SUPERSONIC AIRCRAFT  
X-1 AIRCRAFT  
RT ∞ AIRCRAFT

X-2 AIRCRAFT

GS BELL AIRCRAFT  
X-2 AIRCRAFT  
MONOPLANES  
X-2 AIRCRAFT  
RESEARCH AIRCRAFT  
X-2 AIRCRAFT  
ROCKET VEHICLES  
ROCKET PLANES  
X-2 AIRCRAFT  
SUPERSONIC AIRCRAFT  
X-2 AIRCRAFT  
RT ∞ AIRCRAFT

X-3 AIRCRAFT

GS JET AIRCRAFT  
X-3 AIRCRAFT  
MCDONNELL DOUGLAS AIRCRAFT  
DOUGLAS AIRCRAFT  
X-3 AIRCRAFT  
MONOPLANES  
X-3 AIRCRAFT  
RESEARCH AIRCRAFT  
X-3 AIRCRAFT  
SUPERSONIC AIRCRAFT  
X-3 AIRCRAFT  
RT ∞ AIRCRAFT

X-5 AIRCRAFT

GS BELL AIRCRAFT  
X-5 AIRCRAFT  
JET AIRCRAFT  
X-5 AIRCRAFT  
MONOPLANES  
X-5 AIRCRAFT  
RESEARCH AIRCRAFT  
X-5 AIRCRAFT  
RT ∞ AIRCRAFT

XB-47 AIRCRAFT

USE B-47 AIRCRAFT

XB-70 AIRCRAFT

USE B-70 AIRCRAFT

XBQM-180A AIRCRAFT

USE VATOL AIRCRAFT

XC-142 AIRCRAFT

UF C-142 AIRCRAFT  
FAIRCHILD-HILLER AIRCRAFT  
GS XC-142 AIRCRAFT  
JET AIRCRAFT  
XC-142 AIRCRAFT  
LING-TEMCO-VOUGHT AIRCRAFT  
XC-142 AIRCRAFT  
MONOPLANES  
XC-142 AIRCRAFT  
RYAN AIRCRAFT  
XC-142 AIRCRAFT  
TILT WING AIRCRAFT  
XC-142 AIRCRAFT  
TRANSPORT AIRCRAFT  
XC-142 AIRCRAFT  
V-STOL AIRCRAFT  
VERTICAL TAKEOFF AIRCRAFT  
XC-142 AIRCRAFT  
RT ∞ AIRCRAFT  
TURBOPROP ENGINES

## XH-51 HELICOPTER

### XH-51 HELICOPTER

UF AEROGYRO HELICOPTERS  
CL-595 HELICOPTER  
H-51 HELICOPTER  
LOCKHEED CL-595 HELICOPTER  
LOCKHEED 186 HELICOPTER  
GS LOCKHEED AIRCRAFT  
. XH-51 HELICOPTER  
RESEARCH AIRCRAFT  
. XH-51 HELICOPTER  
V/STOL AIRCRAFT  
. ROTARY WING AIRCRAFT  
... HELICOPTERS  
... RIGID ROTOR HELICOPTERS  
... XH-51 HELICOPTER

XJ-34-WE-32 ENGINE  
USE J-34 ENGINE

XJ-79-GE-1 ENGINE  
USE J-79 ENGINE

XM-6 SQUIB  
USE SQUIBS

XM-8 SQUIB  
USE SQUIBS

### XV-3 AIRCRAFT

UF V-3 AIRCRAFT  
GS BELL AIRCRAFT  
. XV-3 AIRCRAFT  
V/STOL AIRCRAFT  
. XV-3 AIRCRAFT  
RT ∞ AIRCRAFT  
TILTING ROTORS

### XV-4 AIRCRAFT

UF HUMMINGBIRD AIRCRAFT  
LOCKHEED XV-4A AIRCRAFT  
V-4 AIRCRAFT  
VZ-10 AIRCRAFT  
GS JET AIRCRAFT  
. XV-4 AIRCRAFT  
LOCKHEED AIRCRAFT  
. XV-4 AIRCRAFT  
MONOPLANES  
. XV-4 AIRCRAFT  
RESEARCH AIRCRAFT  
. XV-4 AIRCRAFT  
V/STOL AIRCRAFT  
. VERTICAL TAKEOFF AIRCRAFT  
... XV-4 AIRCRAFT  
RT ∞ AIRCRAFT

### XV-5 AIRCRAFT

UF V-5 AIRCRAFT  
VZ-11 AIRCRAFT  
XV-5A AIRCRAFT  
GS FAN IN WING AIRCRAFT  
. XV-5 AIRCRAFT  
JET AIRCRAFT  
. XV-5 AIRCRAFT  
MONOPLANES  
. XV-5 AIRCRAFT  
RESEARCH AIRCRAFT  
. XV-5 AIRCRAFT  
RYAN AIRCRAFT  
. XV-5 AIRCRAFT  
V/STOL AIRCRAFT  
. XV-5 AIRCRAFT  
RT ∞ AIRCRAFT

### XV-5A AIRCRAFT

USE XV-5 AIRCRAFT

### XV-6A AIRCRAFT

USE P-1127 AIRCRAFT

### XV-8A AIRCRAFT

GS RESEARCH AIRCRAFT  
. XV-8A AIRCRAFT  
RYAN AIRCRAFT  
. XV-8A AIRCRAFT  
UTILITY AIRCRAFT  
. XV-8A AIRCRAFT  
V/STOL AIRCRAFT  
. XV-8A AIRCRAFT  
RT ∞ AIRCRAFT  
FLEXIBLE WINGS

### XV-9A AIRCRAFT

UF V-9 AIRCRAFT  
GS HUGHES AIRCRAFT

### XV-9A AIRCRAFT-(CONT.)

. XV-9A AIRCRAFT  
JET AIRCRAFT  
. XV-9A AIRCRAFT  
RESEARCH AIRCRAFT  
. XV-9A AIRCRAFT  
V/STOL AIRCRAFT  
. ROTARY WING AIRCRAFT  
... HELICOPTERS  
... MILITARY HELICOPTERS  
... XV-9A AIRCRAFT  
RT ∞ AIRCRAFT  
TIP DRIVEN ROTORS

## Y

### YAK 40 AIRCRAFT

GS GENERAL AVIATION AIRCRAFT  
. YAK 40 AIRCRAFT  
JET AIRCRAFT  
. YAK 40 AIRCRAFT  
LIGHT AIRCRAFT  
. YAK 40 AIRCRAFT  
PASSENGER AIRCRAFT  
. YAK 40 AIRCRAFT  
RT ∞ AIRCRAFT

### YAW

UF DAMPING IN YAW  
FISHTAILING  
YAWMETERS  
GS ATTITUDE (INCLINATION)  
. YAW  
RT AERODYNAMIC STABILITY  
DIRECTIONAL CONTROL  
DIRECTIONAL STABILITY  
LATERAL OSCILLATION  
∞ MOTION  
PITCH (INCLINATION)  
ROLL  
ROTATION  
SIDESLIP  
SKIDDING  
TURNING FLIGHT  
YAWING MOMENTS

### YAWING MOMENTS

GS MOMENTS  
. STABILITY DERIVATIVES  
... YAWING MOMENTS  
RT AERODYNAMIC COEFFICIENTS  
LATERAL OSCILLATION  
MOMENTS OF INERTIA  
PITCHING MOMENTS  
ROLLING MOMENTS  
TORQUE  
YAW

### YAWMETERS

USE ATTITUDE INDICATORS  
YAW

### YC-14 AIRCRAFT

GS TRANSPORT AIRCRAFT  
. CARGO AIRCRAFT  
... YC-14 AIRCRAFT  
RT ∞ AIRCRAFT  
BOEING AIRCRAFT  
∞ MILITARY AIRCRAFT

### YC-15 AIRCRAFT

USE C-15 AIRCRAFT

### YF-12 AIRCRAFT

GS ATTACK AIRCRAFT  
. FIGHTER AIRCRAFT  
... YF-12 AIRCRAFT  
RT ∞ AIRCRAFT  
AIRCRAFT DESIGN  
∞ INTERCEPTORS  
JET AIRCRAFT  
∞ MILITARY AIRCRAFT  
RECONNAISSANCE AIRCRAFT  
RESEARCH AIRCRAFT

### YF-16 AIRCRAFT

GS ATTACK AIRCRAFT  
. FIGHTER AIRCRAFT  
... YF-16 AIRCRAFT  
SINGLE ENGINE AIRCRAFT  
. YF-16 AIRCRAFT

### YF-16 AIRCRAFT-(CONT.)

RT ∞ AIRCRAFT  
∞ MILITARY AIRCRAFT

### YF-17 AIRCRAFT

USE F-17 AIRCRAFT

### YHU-1 HELICOPTER

USE UH-1 HELICOPTER

### YJ-73-GE-3 ENGINE

USE J-73 ENGINE

### YJ-79 ENGINE

USE J-79 ENGINE

### YJ-85 ENGINE

USE J-85 ENGINE

### YJ-93 ENGINE

USE J-93 ENGINE

### YJ-93-GE-3 ENGINE

USE J-93 ENGINE

### YJ73 TURBOJET ENGINE

USE J-73 ENGINE

### YO-YO DEVICES

RT ANGULAR ACCELERATION  
GYROSCOPIC STABILITY  
SATELLITE ROTATION  
SPIN  
SPIN REDUCTION

### YS-11 AIRCRAFT

UF NIHON YS-11 AIRCRAFT  
GS JET AIRCRAFT  
. TURBOPROP AIRCRAFT  
... YS-11 AIRCRAFT  
MONOPLANES  
. YS-11 AIRCRAFT  
NIHON AIRCRAFT  
. YS-11 AIRCRAFT  
PASSENGER AIRCRAFT  
. YS-11 AIRCRAFT  
TRANSPORT AIRCRAFT  
. YS-11 AIRCRAFT

### YT-2 AIRCRAFT

USE T-2 AIRCRAFT

### YUH-1 HELICOPTER

USE UH-1 HELICOPTER

### YUH-60A HELICOPTER

USE UH-60A HELICOPTER

### YUH-61A HELICOPTER

USE UH-61A HELICOPTER

### YUKON AIRCRAFT

USE CL-44 AIRCRAFT

## Z

### Z-37 AIRCRAFT

UF OMNIPOL Z-37 AIRCRAFT  
GS MONOPLANES  
. Z-37 AIRCRAFT  
UTILITY AIRCRAFT  
. Z-37 AIRCRAFT

### ZERO ANGLE OF ATTACK

GS GEOMETRY  
. EUCLIDEAN GEOMETRY  
... ANGLES (GEOMETRY)  
... ANGLE OF ATTACK  
... ZERO ANGLE OF ATTACK

### ZERO LIFT

GS AERODYNAMIC CHARACTERISTICS  
. LIFT  
... ZERO LIFT  
AERODYNAMIC FORCES  
. LIFT  
... ZERO LIFT  
DYNAMIC CHARACTERISTICS  
. LIFT  
... ZERO LIFT

**ZERO LIFT-(CONT.)**

RT AERODYNAMIC STALLING  
BOUNDARY LAYER SEPARATION  
DISTRIBUTION (PROPERTY)

**ZEUS MISSILE**

USE NIKE-ZEUS MISSILE

**ZUNI ROCKET VEHICLE**

GS ROCKET VEHICLES  
. SINGLE STAGE ROCKET VEHICLES  
. . **ZUNI ROCKET VEHICLE**  
RT SOLID PROPELLANT ROCKET ENGINES

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