SPECIAL NOTICE

The abstract sections of the monthly supplements of Aerospace Medicine and Biology can be bound separately. Individual abstracts can be located readily by means of the page numbers given at each entry, e.g., p0239 N79-26762. To assist the user in binding Supplements SP-7011(190) through SP-7011(201), a title page is included in the back of this Cumulative index.
A CUMULATIVE INDEX
TO
A CONTINUING BIBLIOGRAPHY ON

AEROSPACE MEDICINE
AND BIOLOGY

This Cumulative Index supersedes the indexes contained in supplements [SP-7011 (190) through SP-7011 (201)], published by NASA during 1979.

NASA
Scientific and Technical Information Branch
National Aeronautics and Space Administration
Washington, DC
INTRODUCTION

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7011(190) through NASA SP-7011(201) of Aerospace Medicine and Biology: A Continuing Bibliography, NASA SP-7011, by means of supplements, serves as a current abstracting and announcement journal for references on bioscience and biotechnology. It has been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA), and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

1. NASA entries by their STAR accession numbers (N79-10000 series)
2. AIAA entries by their IAA accession numbers (A79-10000 series)

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject index, a personal author index, and a corporate source index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and that the following term or terms are used instead. For example:

   DOSE
       U DOSAGE
   AIRLINERS
       U COMMERCIAL AIRCRAFT
       U PASSENGER AIRCRAFT

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

   FATIGUE (BIOLOGY)
       NT AUDITORY FATIGUE
       NT FLIGHT FATIGUE
       NT MUSCULAR FATIGUE

In addition, a searcher may use the title or title and title extension in the index to narrow further his quest for particular items, this is because subject terms can readily include more than one class of document. For example:

   BIOLOGICAL EFFECT
       Vibratory force effect upon biological systems, particularly human organism.
       Biological effect of cosmic and solar radiations on human body at high altitudes.

illustrates a case where two references on different topics are listed under the same subject term.
HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract-section citations in the individual Supplements appear in the index. Differences in translation schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M. D.
and
YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual Supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF BIOLOGY. (Source citation entry)
NEW MEXICO STATE UNIV., LAS CRUCES. (Source index entry)

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate Supplement. The page-number range of each Supplement appears on the inside front cover of this index. Once the range of page numbers containing the selected accession number is located in the second column, the desired Supplement number will be found in the first column. For example:

Page 191 will be found in Supplement 196.

AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in Aerospace Medicine and Biology supplements is found in the Introduction to the most currently issued monthly supplement.
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The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of the document content, a title extension is added, separated from the title by three hyphens. The NASA or AIAA accession number is included in each entry to assist the user in locating the abstract in the abstract section of this supplement. If applicable, a report number is also included as an aid in identifying the document.

A

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Prebiotic condensation of oligonucleotide life

An approach to the origin of self-replicating system. I - Intermolecular interactions

Quantitative aspects of the effect of weak interaction during chemical evolution

Coacervate drops as a model for precellular structures

Coacervate drops - Primitive forms of precells

Takeover mechanisms and early biochemical evolution

Some characteristic features of the origin and evolution of the amino acid composition of proteins - A theoretical consideration

Nucleotide-binding site structures and the origin of the genetic code

The study of the origin of life - Results and prospects

A critical assessment of the origin of life and evolution of life

A proposal concerning the origin of life on the planet earth

Polymers produced by heating an amino acid mixture in sea water enriched with transition elements

Exobiology and the origin of life - organic compounds in planetary atmospheres and interstellar matter

ABNORMALITIES

Psychophysiological effects of aging: Developing a functional age index for pilots. 2: Taxonomy of psychological factors

ABSORPTION SPECTRA

The study of the origin of life - results and prospects

ABSORPTION SPECTRA

Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/ammonia under varied conditions

Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide

A review of recent concepts of the problem of the origin of life

Origin of life; Proceedings of the Second ESSOL Meeting and Fifth ICOL Meeting, Kyoto, Japan, April 5-10, 1977

Prebiotic molecular evolution

Synthesis of amino acids under primitive earth conditions in the presence of clay

Prebiotic condensation reactions using cyanamide

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Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere

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ACCELERATION (PHYSICS)

Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets

ACCELERATION (PHYSICS)

Angular Acceleration

High Acceleration

Impact Acceleration

A numerical method of film analysis with differentiation --- curve fitting with harmonic analysis

Evaluation of assisted positive-pressure breathing on +Gz tolerance

Helmet weight simulator

Animal endurance to recurrent impact accelerations

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A head injury model

CENTRIFUGING STRESS

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Development of space biology experimentants for the Space Shuttle - A student's perspective

Cardiovascular regulatory response to lower body negative pressure following blood volume loss

Mitral prolapse and acceleration in aircraft pilots

Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting

Head acceleration and psychomotor performance --- related to crash accident survival rates

Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration

Oculogravic illusion in response to straight-ahead acceleration of a C-141 aircraft

Cerebral accident subsequent to G-force loading - A case report

Positive pressure breathing as a protective technique in +Gz acceleration

Motion sickness in cats - A symptom rating scale used in laboratory and flight tests

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Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. susscenna

+Gz tolerance correlation with clinical parameters

Heat and acute dehydration effects on acceleration response

Reproductibility of +Gz tolerance testing

Modeling human tracking performance in a high +Gz-stress environment

Functional anatomy of vertebral column with reference to load bearing areas

Biodynamics of aviation stresses on the vertebral column

Assessment of spinal disabilities in flying

A new application of LBNP to measure orthostatic tolerance before and after +Gz simulation /water immersion /

Cardiac arrhythmia following postisometric +Gz sub +Gz accelerations

A method of evaluating the pupillary vestibular stimuli

Effect of accelerations combined with radiation on occurrence of gene mutations in the drosophila

Medical qualification procedures for hazardous-duty aeromedical research

Engineering test and evaluation during high G.

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Evaluation of assisted positive-pressure breathing

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Evaluation of assisted positive-pressure breathing
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AEROSPACE ENVIRONMENTS

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AERODYNAMIC FORCES

AERODYNAMIC STABILITY

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Influence of light adaptation on dark adaptation time for pattern recognition tasks

LIGHT AIRBORNE MULTIPURPOSE SYSTEM

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LIGHT BEAMS

Moving phase transitions in laser-irradiated biological tissue

Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms

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LIGHT SCATTERING

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No harmful effects through infrared light emitting diodes

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