NOISE POLLUTION

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TAC BIBLIOGRAPHIC SERIES NUMBER 2

NOISE NOISE NOISE NOISE NOISE NOISE NOISE NOISE NOISE

TECHNOLOGY APPLICATION CENTER
INSTITUTE FOR SOCIAL RESEARCH
AND DEVELOPMENT
THE UNIVERSITY OF NEW MEXICO
ALBUQUERQUE, NEW MEXICO 87106

NOISE POLLUTION RESOURCES COMPENDIUM

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Prepared by

THE TECHNOLOGY APPLICATION CENTER
INSTITUTE FOR SOCIAL RESEARCH & DEVELOPMENT
THE UNIVERSITY OF NEW MEXICO
ALBUQUERQUE, NEW MEXICO

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PREFACE

Our modern world presents many new technical problems, some of which have potential solutions that may be located in previous research. Recognizing the fact that many of our problems may be solved by designs, techniques, and technology already in existence, NASA's Technology Utilization Program developed a system of six centers for disseminating the results of existing aerospace and nonaerospace research. The Technology Application Center at the University of New Mexico is one of these six centers. Its mission is to promote the beneficial use of new technology.

One of the activities of the Technology Application Center has been to identify new, high-interest areas of technology and to assemble and update references on these subjects. Mr. Eugene Burch, Assistant Director of the Center, conceived the idea of a reference to the problems of noise pollution. This volume is the product of that concept.

Today, the engineer or scientist who is not constantly keeping himself aware of new developments in his field of expertise soon finds his knowledge obsolete. Over the past decade alone, the Federal Government has spent tens of billions in research and development. Estimates indicate that ten percent or more of this research has been a duplication of previous efforts. To meet these challenges in an era where research and development budgets must be carefully planned and environmental problems become more complex, we at the Technology Application Center are sincerely committed to a continuous interaction with those forward-looking individuals, companies, and industries seeking to develop a better nation and world.

William A. Shinnick
Director
Technology Application Center
University of New Mexico

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INTRODUCTION

Of all the problems facing our modern world, noise is perhaps the most ubiquitous. By the most simple definition, noise is unwanted sound. Unfortunately, many of the amenities of civilized life, whether they are for productive purposes or related to recreation, produce unwanted sound that may have by-products which will deteriorate the functioning of the amenities themselves, and through the transmission of sound, affect the satisfaction and performance of individuals, perhaps entire communities.

The purpose of this reference is to provide information with which to better understand noise in terms of its physical properties, which may be measured, and its nonphysical effects on human populations. In order to prepare this volume, thousands of journals and indexes were searched for information on the subject of noise. The articles and books which were located have been indexed by keywords which may be found in the index. Each citation contains information which will assist the reader in identifying and locating the original article. The illustration on the following page explains the citations and the abbreviations used in them. Although the key words used to categorize the citation do not appear with the citation, users may obtain copies of the original abstracts by writing the Technology Application Center.

To further improve the usability of this volume, the citations have been categorized into eight major sections, with each of these subclassified into a number of subsections. These subsections are designed to reduce the work of a researcher in a particular field by decreasing the references he must review.

Although a great amount of effort has been expended in insuring that this document is accurate and complete, readers are encouraged to notify the Technology Application Center of omissions.

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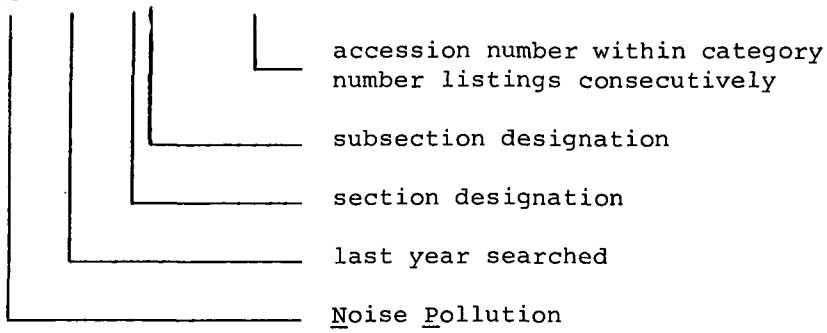

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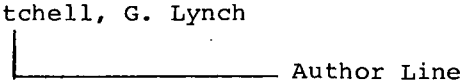

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SECTION 2

NOISE DETECTION AND MEASUREMENT

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:::: P.BAADE
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:::: K.KOCH-EMMERY
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% T.ITOW
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:::: R.HILLQUIST
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:::: F.INGERSLEV
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:::: J.THIRY ** IN GERMAN
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NP71-2C-006 CITY NOISES REACH FEARSOME LEVELS ON SONIC PROFILE
:::: C.SMITH
SAN DIEGO UNION, 12/70, B-1 B-4 B-5

NP71-2C-007 JET AIRCRAFT NOISE OVER RESIDENTIAL AREAS
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:::: A.MCPIKE ** CONF 7/71, ALBERTA, CANADA
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NP71-2C-013 DETERMINATION OF THE NOISE CHARACTRSTCS OF JET ARCRFT DURNG LNDNG APPROCH
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NP71-2C-023 SONIC BOOM GROUND PRESSURE MEASMN FOR FLGHTS AT ALTITDES IN EXCSS 70,000 FT ...
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NP71-3J-016 THE DESIGN OF THE U.S. SST FOR LOW COMMUNITY NOISE
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NP71-3J-017 TECHNOLOGY OF GROUND RUN-UP SUPPRESSORS
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NP71-3L-002 TWO METHODS OF EVALUATING CLIMBOUT NOISE
:::: W.COPELAND
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NP71-3L-003 FLIGHT INVESTIGATION OF METHODS FOR IMPLEMENTING NOISE-ABATEMNT LNDNG APROACHS
:::: H.QUIGLEY, R.INNIS, E.FRY
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NP71-3L-005 EFFECT OF DEPARTURE PROCEDURES ON JET AIRCRAFT NOISE CONTROL
:::: W.GALLOWAY, J.WOODALL
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NP71-3L-006 NOISE GEN ON GROUND DUR TAKEOFF AND LANDING OF TU-124 PASSENGER AIRCRAFT
:::: B.MEL'NIKOV
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NP71-3L-007 AN OPERATIONAL EVALUATION OF THE TWO-SEGMENT APPROACH FOR NOISE ABATEMENT
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NP71-3L-012 NOISE REDUCTION OPERATIONAL PROCEDURES
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NP71-3L-024 TECHNIQUE FOR CALCULATING OPTIMUM NOISE-ABATEMENT TAKE-OFF PROFILES
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NP71-3L-027 VARIATION IN ENGINE NOISE FOR TWO LANDING-APPROACH CONFIG OF JET TRANS AIRCRAFT
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NP71-3M-010 THE BERTIN CO PROPOSES A NEW FORMULA FOR A SHORT TAKEOFF AIRCRAFT
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NP71-3M-011 SOME DESIGN CONSIDERATIONS FOR A LOW NOISE, DIRECT LIFT, VTOL ENGINE
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NP71-3M-015 ENGINES FOR CIVIL V/STOL
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NP71-3M-021 NOISE PROBLEMS OF VTOL WITH PARTICULAR REFERENCE TO THE DORNIER DO 31
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NP71-3M-023 THRUST PERFORMANCE OF SUPPRESSOR NOZZLES
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NP71-3M-024 POWERPLANT ASPECTS OF HIGH SPEED INTER-CITY VTOL AIRCRAFT
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NP71-3M-025 VERTICAL TAKE-OFF AIRCRAFT FOR METROPOLITAN AND REGIONAL SERVICE
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NP71-3M-027 STOL AIRCRAFT NOISE CERTIFICATION
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NP71-3N-007 NOISE REDUCTION DESIGN IN THE SMALL HELICOPTER
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NP71-3N-012 TRANSMISSION NOISE CONTROL APPROACHES IN HELICOPTER DESIGN
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NP71-30-011 AIRCRAFT NOISE AND AIRPORT NEIGHBORS: A STUDY OF LOGAN INT AIRPORT
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NP71-30-012 RESEARCH APPROACHES TO ALLEVIATION OF AIRPORT-COMMUNITY NOISE
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NP71-30-013 METH OF REDUCING NOISE FROM ARCRFT & ENGNS WHEN OPRATD FOR MNTNANCE & TSTS
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NP71-30-020 PROBLEMS OF NOISE AROUND AIRPORTS AND MEASURES TO REDUCE IT
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NP71-30-021 ANALYSIS OF COMMUNITY AND AIRPORT RELATIONSHIPS/NOISE ABATEMENT
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NP71-30-022 ANALYSIS OF COMMUNITY AND AIRPORT RELATIONSHIPS/NOISE ABATEMENT ** VOLUME 2
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NP71-30-026 THE ECONOMICS OF AIRPORT OPER AS AFFECTED BY TRANSPORT AIRCRAFT DESIGN TRENDS
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NP71-30-030 CAPACITY AND NOISE RELATIONSHIPS FOR MAJOR HUB AIRPORTS
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NP71-30-033 AIRPORT NOISE-AN ENVIRONMENTAL PROBLEM
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NP71-30-040 CITY BOARD BACKS A SCHOOL SITE UNDER FLIGHT PATH TO KENNEDY
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NP71-30-041 ALLEVIATION OF AIRCRAFT NOISE
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NP71-30-042 PRACTICAL NOISE CONTROL AT INTNL AIRPORTS WITH SPECIAL REFERENCE TO HEATHROW
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NP71-30-043 AIRCRAFT NOISE AND THE SITING OF A MAJOR AIRPORT
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SECTION 4

THE PHYSICAL EFFECTS OF NOISE

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THE PHYSICAL EFFECTS OF NOISE

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NP71-5C-026 HUMAN RESPONSE TO SONIC BOOMS
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NP71-5C-047 EFFECT OF VIB. AND NOISE ON THE MENTAL FACULTY OF MAN UNDER TIME STRESS
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STAR ACC NO N67-39022

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NP71-5F-049 HEARING CONSERVATION IN INDUSTRY: AN INSURANCE COMPANY'S VIEW OF THE PROBLEM
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SECTION 6

NOISE REGULATIONS AND STANDARDS

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NOISE REGULATIONS AND STANDARDS

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PATENTS AND CONTRACTS

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NP71-8B-010 SYNTHESIS OF AIRCRAFT NOISE
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NP71-8B-014 DESCRIPTION OF A HELICOPTER ROTOR NOISE COMPUTER PROGRAM
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:::: J.WILLIAMS
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NP71-8C-038 INVESTIGATION ON THE NOISE EVOLUTION OF TURBULENT FREEJETS
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C023 4C024 4D001 4D002 4D003 4D004 4D005 4D006
E001 4E002 4E003 4E004 4E005 4E007 4E012 4E013
E014 4E015 4E016 4E017 4E018 4E019 4E020 4E021
F002 4F003 4F006 4F011 4F013 4F019 5A005 5B008
B015 5B078 5C003 5C006 5C007 5C009 5C010 5C012
C013 5C016 5C017 5C021 5C023 5C025 5C026 5C029
C040 5C043 5C045 5C049 5C050 5C052 5C053 5C054
C062 5C063 5C064 5C070 5C071 5C073 5C075 5C080
C081 5C082 5C083 5C089 5C090 5C092 5C094 5C103
C110 5C122 5C146 5F117 5F123 6B002 6B004 6B005
B009 6B011 6B012 6B013 6B014 6B020 6C016 6C019
C024 6C035 6C036 8A001 8A002 8A003 8A004 8A005
A006 8A007 8A008 8A009 8A010 8A011 8A012 8A013
A014 8A015 8A016 8A017 8A018 8A019 8A020 8A021
A022 8A023 8A024 8A025 8A026 8A027 8A028 8A029
A030 8A031 8A032 8A033 8A034 8A035 8A036 8A037
A038 8A039 8A040 8A041 8A042 8A043 8A044 8A045
A046 8A047 8A048 8A049 8A050 8A051 8A052 8A053

POOL PRSR RATI
S120

PORTS
B061 5F077 5F154 5F183

ST
A031 1A052 1C041 1D004 1D005 1D012 1D013 1D015
D016 1D017 1D022 1D024 1D025 1D027 1D031 1N001
N002 2H053 3J003 3J007 3J008 3J009 3J011 3J012
J013 3J015 3J016 3J017 3J018 3K014 3K019 3K025
K032 3M009 3Q035 4A006 4B007 4C010 4C016 4E016
F001 4F008 5C016 5C070 5C074 5C083 5F067 6C024
C028 6C029 6C033 6C034 6C035 6D013 7B007 8A048
A091 8A092 8A107 8A112 8A113 8A122 8B021

TACK INSERT
Q054

TAGING EFFECT
K017

TAGNATE INDEX
C016

TAIN STEEL
I044

TANDARDS
B047 2I002 3Q061 5F002 5G012 5H004 5H005 5H019
H034 5H040 5H041 5H044 5H051 6A007 6A008 6A009
A011 6C004 6C007 6C008 6C021 6C034 6C038 6D004
E004 6E005 6F001 6F003 6F008 6F009 6G003 6G006
G008 6G010 6G012 6G015 6G018 6G021 6G026 6G029
G031 8B034

TAPEDECTOMY
B043 5B068 5D001

TARFIGHTER
A001

TARTLE EFFECT
B055 5C021 5C040 5C100 5C101 5C112 5C119 5E011
E042

TATE
C013 6C014 6C030 6G001

TATIC JET
J001

TATIS ANAL
F031 2E026 4C023 5E081 5F175

TATOR
F012 7A018

TEADY STATE
D006 5F025 5F032 5H003