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NASA Langley Scientific and Technical Information Output—2001

Susan H. Stewart, Compiler
Langley Research Center, Hampton, Virginia

March 2002
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Preface

This report contains a listing of the NASA Langley Research Center’s publicly available scientific and technical research output for C.Y. 2001.

The intent of this report is to provide a greater awareness of the broad scope of results and the importance of the research and development work conducted by scientists and engineers at Langley. This current awareness is mandated by the National Aeronautics and Space Act of 1958, which provides for the widest practical dissemination of NASA research.

Introduction

The NASA Langley Research Center is one of the Nation’s leading laboratories for research and development in the sciences of aeronautics and space technology. Langley conducts basic and applied research in the areas of aerospace systems, concepts, and analysis, aerodynamics, aero thermodynamics, and acoustics, structures and materials, airborne systems, atmospheric sciences, and systems engineering.

This document contains a bibliography of Langley’s publicly available scientific and technical research output for 2001 which is processed through the Center’s Office of the Chief Information Officer to become an integral part of NASA’s Agency-wide Scientific and Technical Information (STI) system. The results of Langley’s research are disseminated in a variety of NASA and non-NASA scientific and technical media and information systems. This document is intended to be a reference summary for researchers and a current awareness publication for the scientific, research, and academic community. Details of the availability of the research references in this document are found in the section, “Availability,” on page vii.


The citations are grouped by the Scientific and Technical Aerospace Reports (STAR) subject categories and listed alphabetically by author or innovator. The Langley organization to which the senior author or innovator is assigned and the Program Number are noted below citations when appropriate and included in the indexes.

Patents listed are those which were issued in 2001 and owned by Langley Research Center.

Publication of some journal articles was not known at press time for the 2000 issue of this document. These articles are therefore listed in the 2001 issue.
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   Organization RB  Program No. 522-31-11

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Organization RB Program No. 706-31-11

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Organization RB Program No. 992-20-03

Organization RB


Organization RB  Program No. 706-51-31


Organization RB  Program No. 704-20-21


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Organization RB Program No. 706-32-31


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Organization RC Program No. 632-64-00

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Organization RB Program No. 992-35-12


Organization RF Program No. 992-16-03

Organization RB Program No. 727-03-15


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Organization RB


Organization RC Program No. 274-00-00


Organization RB Program No. 706-31-31


Organization RB Program No. 727-03-15

Category 36 Lasers and Masers


Organization RC Program No. 706-63-71


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Organization RB Program No. 581-10-11

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Organization RF Program No. 258-70-21

Category 38 Quality Assurance and Reliability

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Category 39 Structural Mechanics

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   Organization RC Program No. 537-06-34

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Organization RC Program No. 706-61-11

Organization RC Program No. 522-11-41

Organization RC Program No. 710-70-21

Organization RC Program No. 632-64-00


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Category 42 Geosciences (General)

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**Category 43 Earth Resources and Remote Sensing**


Organization RD Program No. 728-40-10


Organization RE Program No. 622-56-61


Organization RF Program No. 992-35-15


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Category 47 Meteorology and Climatology


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Category 66 Systems Analysis

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Category 77 Thermodynamics and Statistical Physics

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Social Sciences

Category 82 Documentation and Information Science

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Category 91 Lunar and Planetary Exploration


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