NASA Langley Scientific and Technical Information Output—1995

Susan H. Stewart and Marilou S. Phillips, Compilers
Langley Research Center • Hampton, Virginia
Foreword

This report contains a listing of the NASA Langley Research Center's scientific and technical research output for C.Y. 1995.

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.

During C.Y. 1995, Langley's contributions to NASA and non-NASA literature included 111 NASA Formal Reports, 3 High-Numbered Conference Publications, 74 High-Numbered Technical Memorandums, 209 Contractor Reports, 269 Journal Articles and Other Publications, 446 Meeting Presentations, 65 Technical Talks, 17 Computer Programs, 69 Tech Briefs, 24 Patents, and 5 Special Documents. In addition, during the year, 13 conferences, symposia, and workshops were sponsored or cosponsored by Langley and held locally.

Dr. Frank Allario
Chief, Information Systems
and Services Division
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 Airframe Systems, Aerodynamics, Atmospheric Science, and Structures and Materials.

This publication is a bibliography of Langley’s scientific and technical research output for 1995 which is processed through the Center’s Information Systems and Services Division, 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. 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 Research and Technology Objectives and Plans (RTOP) number are noted below citations when appropriate and included in the indexes.

Computer Programs listed are those which were submitted by Langley to COSMIC in 1995 along with some programs listed on the Langley Software Server (LSS). The electronic dissemination of Computer Programs on the WWW at http://www.larc.nasa.gov/LSS/ has been initiated.

The NASA Tech Briefs cited were published in 1995 in “NASA Tech Briefs,” a journal for United States industry, entrepreneurs, and academia. Free subscriptions to this journal are available through the publisher, NASA Tech Briefs, 41 East 42nd Street, Suite 921, New York, New York 10017-5391, by writing to the NASA Center for AeroSpace Information, Technology Transfer Office, P. O. Box 8757, Baltimore, Maryland 21240-0757 or on the WWW at http://www.keds.com/ntb/subscribe.html.

Patents listed, which are owned by Langley Research Center, have been published in issues of STAR, a NASA announcement journal for report literature. A subscription to STAR is available from the U.S. Government Printing Office (GPO) or from the NASA Center for AeroSpace Information (CASI).

Publication of some journal articles was not known at press time for the 1994 issue of this document. These articles are therefore listed in the 1995 issue.
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37 Cruz, C. I.; and Ware, G. M.: Control Effectiveness and Tip-Fin Dihedral Effects for the HL-20 Lifting-Body Configuration at Mach Numbers From 1.6 to 4.5. NASA TM-4697, December 1995, 89 p.

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