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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Organization GK RTOP 237-02-02


Organization DM RTOP 233-01-01


Organization DM RTOP 233-01-01


Organization GK RTOP 967-30-40


Organization DC RTOP 233-01-01


Organization DS RTOP 233-01-01

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Category 19 Spacecraft Instrumentation

Organization GK RTOP 236-02-03

Organization GL

Organization GH RTOP 233-03-02

Category 20 Spacecraft Propulsion and Power

Organization J RTOP 505-70-69

Organization DS RTOP 506-49-11

Chemistry and Materials

Category 23 Chemistry and Materials (General)

Organization CE RTOP 506-43-61

Organization CE RTOP 506-43-61

Organization DM
Organization DM

Organization CE RTOP 506-43-61

Organization E RTOP 243-10-01

Organization CE RTOP 506-43-61

Organization DM RTOP 506-63-50

Organization DM

Organization CE RTOP 506-43-61

Organization CE RTOP 506-43-61

Organization CE RTOP 506-43-61

Organization DM

Organization DM

Organization DM RTOP 505-63-50

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Category 24 Composite Materials


Organization DM RTOP 505-63-50


Organization BB RTOP 538-02-11


Organization DM RTOP 538-02-10


Organization DS RTOP 505-63-50


Organization DM RTOP 510-02-11


Organization DM RTOP 538-02-10


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DS


Organization DS


Organization DS


Organization DS
   Organization DS

   Organization DM RTOP 505-63-50

   Organization DM RTOP 505-63-50

   Organization DM RTOP 538-02-10

   Organization DM RTOP 510-02-11

   Organization DM RTOP 538-07-12

   Organization DM RTOP 763-23-41

   Organization DM RTOP 505-63-50

   Organization DM RTOP 505-63-50

   Organization DS RTOP 510-02-12


Organization DS RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 538-02-10


Organization DM RTOP 538-02-10


Organization DM RTOP 505-63-50


Organization DM

Organization DS RTOP 537-06-21


Organization DM RTOP 510-02-11


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 538-02-10


Organization DM RTOP 510-02-11


Organization DM RTOP 510-02-11


Organization DM RTOP 510-02-11


Organization DS RTOP 505-63-36


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50
Organization DM RTOP 505-63-50

Organization DM RTOP 505-63-50

Organization DM RTOP 505-63-50

Organization DM RTOP 510-20-11

Organization DM RTOP 510-20-11

Organization DM RTOP 510-02-11

Organization DS RTOP 505-63-50

Organization DM RTOP 505-63-50

Organization DM RTOP 505-63-50

Organization DM RTOP 505-63-50


Organization DM RTOP 538-04-14


Organization DM RTOP 297-40-00


Organization DS RTOP 510-02-12


Organization DS RTOP 505-63-36


Organization DS RTOP 505-63-36


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 510-02-11

Organization DM


Organization DM


Organization DM


Organization DM


Organization DF


Organization DS


Organization DM


Organization DM


Organization DM

Category 25 Inorganic and Physical Chemistry


Organization DM
Category 26 Metallic Materials


Organization DM RTOP 505-70-63


Organization DM RTOP 538-02-10


Organization DM RTOP 538-02-10


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DF RTOP 307-51-14


Organization DM RTOP 506-43-31


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50

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Organization DM  RTOP 505-63-50


Organization DM  RTOP 505-63-50


Organization DM  RTOP 538-02-11


Organization DM  RTOP 538-02-11


Organization DM  RTOP 538-02-01


Organization DM


Organization DM  RTOP 538-02-10


Organization DM  RTOP 538-02-10


Organization DM  RTOP 532-02-11


Organization DM  RTOP 538-02-10


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Category 27 Nonmetallic Materials


Organization DM

RTOP 505-53-60


Organization DM

RTOP 505-63-50


Organization DM

RTOP 505-63-50


Organization DM

RTOP 505-63-50


Organization DM

RTOP 505-63-50


Organization DM

RTOP 505-63-50


Organization DM

RTOP 505-63-50


Organization DM


Organization DM


Organization DM

RTOP 505-63-50


Organization DM

RTOP 537-06-20

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Organization DM RTOP 505-63-50

Organization DM RTOP 233-02-02

Organization DM RTOP 506-43-11

Organization DM RTOP 506-43-11

Organization DG RTOP 505-70-62

Organization DM RTOP 505-63-50

Organization DM RTOP 233-02-03

Organization DM RTOP 506-63-50

Organization DM RTOP 505-63-50

Organization DM RTOP 505-63-50

Organization DM RTOP 506-63-50

Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM RTOP 233-02-03


Organization DM RTOP 233-02-03


Organization DM


Organization DM


Organization DM


Organization DM RTOP 505-63-50


Organization DM


Organization DM RTOP 505-63-50


Organization DM RTOP 505-63-50


Organization DM
Organization DM  RTOP 506-43-11

Organization DM  RTOP 506-43-11

Category 29 Materials Processing

Organization DM

Organization DM

Engineering

Category 31 Engineering (General)

Organization GK  RTOP 243-10-01

Organization GK  RTOP 297-50-00

Organization DC  RTOP 505-64-70

Organization CA  RTOP 146-90-04
Organization DS

Organization DS

Category 32 Communications and Radar

Organization DI

Organization DI

Organization DI RTOP 505-64-52

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Organization DI RTOP 505-64-70

Organization DI RTOP 505-64-52

Organization DI RTOP 505-64-52

Organization DI RTOP 505-64-52

Organization DI RTOP 505-64-52


Category 33 Electronics and Electrical Engineering

Organization DC

Organization GH

Organization DF

Organization GL

Organization DM

Organization DM

Organization AF

Organization DI

Organization GL

Organization DI

Organization GH
Category 34 Fluid Mechanics and Heat Transfer

Organization DF RTOP 505-59-50

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization DF RTOP 505-59-50

Organization A RTOP 505-90-52

Organization DF RTOP 505-59-50

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Organization DF RTOP 537-03-23

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Organization A  
RTOP 505-90-52

Organization A  
RTOP 505-90-52

Organization A  
RTOP 505-90-52

Organization A  
RTOP 505-90-52

Organization A  
RTOP 505-90-52

Organization DG  
RTOP 506-40-91

Organization DG  
RTOP 506-40-91

Organization DG  
RTOP 232-01-04

Organization DG  
RTOP 242-80-01

553 Item deleted.
Organization DA RTOP 505-59-54

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization DG RTOP 232-01-04

Organization DG RTOP 242-80-01

Organization DG RTOP 506-40-91

Organization DG RTOP 506-40-91

Organization DG RTOP 232-01-04

Organization A RTOP 505-90-52

Organization DF RTOP 505-59-50


Organization DG RTOP 506-40-41

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Organization DG RTOP 506-40-41

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Organization DG RTOP 506-40-41


Organization DG RTOP 242-20-08


Organization CB RTOP 477-50-00


Organization A RTOP 505-90-52


Organization CA RTOP 618-32-33


Organization DF RTOP 537-03-23


Organization DF RTOP 505-59-50

Organization DF RTOP 505-59-50


Organization A RTOP 505-90-52


Organization GK RTOP 225-12-02


Organization DG RTOP 505-70-62


Organization CA RTOP 464-51-01


Organization A RTOP 505-90-52


Organization DG RTOP 506-40-41


Organization DG RTOP 242-80-01


Organization DG RTOP 232-01-04


Organization DG RTOP 242-80-01
Organization DG  RTOP 242-80-01

Organization DG  RTOP 232-01-04

Organization DG  RTOP 232-01-04

Organization DG  RTOP 506-43-31

Organization A  RTOP 505-90-52

Organization DF  RTOP 505-59-40

Organization DF  RTOP 505-70-59

Organization DF  RTOP 505-60-01

Organization DG  RTOP 232-01-04

Organization DG  RTOP 506-40-91

Organization DG  RTOP 506-40-91

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Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Category 35 Instrumentation and Photography

Organization DS RTOP 233-01-01

Organization CA RTOP 464-14-34

Organization CA RTOP 464-14-34

Organization GH

Organization GH RTOP 505-59-54

Organization GH


Organization GH RTOP 505-59-54


Organization GH RTOP 505-59-54


Organization GH RTOP 233-01-03


Organization GH RTOP 967-30-40


Organization GH RTOP 505-68-70


Organization GH RTOP 505-61-05


Organization GH RTOP 538-04-14

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Organization GH RTOP 505-59-54


Organization GH


Organization GH RTOP 505-59-54


Organization GH RTOP 505-59-54
Category 36 Lasers and Masers

Organization DF RTOP 538-03-12

Organization DI RTOP 233-01-03

Organization DM RTOP 232-01-04


Category 37 Mechanical Engineering

   Organization DS

Category 38 Quality Assurance and Reliability

   Organization DG RTOP 242-80-01

   Organization DG RTOP 242-80-01

   Organization DG RTOP 242-80-01

   Organization DM

   Organization DM

   Organization DM

   Organization DM

   Organization DI RTOP 538-01-12
Category 39 Structural Mechanics

Organization GG

Organization DS RTOP 510-02-12

Organization DS RTOP 505-63-50

Organization DS RTOP 505-63-53

Organization DS RTOP 505-63-53

Organization DS RTOP 233-01-01

Organization DS RTOP 505-70-63

Organization DS RTOP 590-14-21

Organization DS RTOP 505-63-53

Organization DM RTOP 538-02-11

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Organization DM RTOP 538-02-10

Organization DM RTOP 538-02-10

Organization DM RTOP 538-02-10

Organization DM RTOP 538-02-10

Organization DM RTOP 538-02-10

Organization GK RTOP 233-01-01

Organization GK

Organization DS RTOP 233-01-01

Organization DS RTOP 505-63-53

Organization DS RTOP 505-63-53

Organization DS

Organization DS RTOP 505-63-50


Organization DS RTOP 505-63-50


Organization DS RTOP 505-63-50


Organization DS RTOP 510-02-12


Organization DS RTOP 505-63-53


Organization DS RTOP 505-63-10


Organization DS RTOP 505-63-53


Organization DS RTOP 505-63-50


Organization DS RTOP 505-63-50


Organization DS RTOP 233-01-01


Organization DS RTOP 233-01-01


Organizations DS 
RTOP 590-14-21

Organizations DS 
RTOP 510-02-12

Organizations DS 
RTOP 505-63-50

Organizations DS 
RTOP 537-06-21

Organizations DS 
RTOP 538-02-10

Organizations DS 
RTOP 505-63-53

Organizations DS 
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Organizations DS 
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Organizations DS 
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Organizations DS 
RTOP 505-63-01
Organization DS  RTOP 505-63-53

Organization DC  RTOP 590-14-61

Organization DS  RTOP 527-10-00

**Geosciences**

**Category 43 Earth Resources and Remote Sensing**

Organization CA  RTOP 146-90-04

Organization CA  RTOP 146-90-04

Organization CC  RTOP 432-78-00

Organization CA  RTOP 146-90-04

Organization CA  RTOP 146-90-04

Organization CA RTOP 464-54-03


Organization CA RTOP 464-54-11


Organization CA RTOP 146-90-04


Organization CA RTOP 146-90-04


Organization CA RTOP 146-90-04


Organization CA RTOP 464-54-11


Organization CA RTOP 464-54-03


Organization CA RTOP 464-54-07


Organization CA RTOP 464-54-03
Organization I RTOP 538-08-12

Organization CA RTOP 464-54-11

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Category 46 Geophysics

Organization I RTOP 537-09-23

Organization CA RTOP 665-45-53

Organization CA RTOP 460-48-40

Organization CA RTOP 370-21-08

Organization CA RTOP 370-21-08

Organization CA RTOP 370-21-08

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Organization CA
RTOP 464-51-01

Organization CA
RTOP 579-21-51

Organization CA
RTOP 579-21-51

Organization CA
RTOP 464-51-01

Organization CA
RTOP 464-34-02

Organization CA
RTOP 618-22-31

Organization CA
RTOP 464-54-16

Organization CA
RTOP 460-48-40

Organization CA
RTOP 464-54-16

Organization CA
RTOP 464-54-16

Organization CA RTOP 229-81-38


Organization CA RTOP 229-81-38


Organization CA RTOP 148-65-42


Organization CA RTOP 665-70-01


Organization CA RTOP 148-65-42


Organization CA RTOP 665-25-30


Organization CA RTOP 665-25-31


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Organization CA RTOP 464-23-22


Organization CA RTOP 464-23-22


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Organization CA RTOP 464-23-22


Organization CA RTOP 665-25-00


Organization CA RTOP 618-22-31


Organization CA RTOP 464-51-01


Organization CA RTOP 460-22-93


Organization CA RTOP 618-21-00


Organization CA RTOP 579-21-17

Organization CA RTOP 148-65-42


Organization CA RTOP 665-45-20


Organization CA RTOP 665-45-53


Organization CA RTOP 538-04-14


Organization CA RTOP 464-34-02


Organization CA RTOP 464-34-02


Organization CA RTOP 464-34-02


Organization CA RTOP 665-25-00


Organization CA RTOP 579-21-44


Organization CA RTOP 618-21-00

Organization CA RTOP 618-21-00


Organization CA RTOP 665-25-31


Organization CA RTOP 464-23-22


Organization CA RTOP 665-25-31


Organization CA RTOP 665-25-31


Organization CA RTOP 579-21-44


Organization CA RTOP 464-23-22


Organization CA RTOP 618-21-00


Organization CA RTOP 665-45-53


Organization CA RTOP 460-41-41

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   Organization CA RTOP 460-48-40

   Organization CA RTOP 665-45-20

   Organization CA RTOP 460-41-41

   Organization CA RTOP 665-45-20

   Organization CA RTOP 665-45-20

   Organization CA RTOP 460-48-40

   Organization CA RTOP 460-48-40

   Organization CA RTOP 618-21-00

   Organization CA RTOP 665-45-54

   Organization CA RTOP 538-04-14


Organization CA RTOP 146-90-04

Organization CA RTOP 146-90-04

Organization CA RTOP 665-45-20

Organization CA RTOP 578-12-23

Organization CA RTOP 229-81-02

Organization CA RTOP 665-45-20

Organization CA RTOP 229-71-45

Organization CA RTOP 229-01-02

Organization CA RTOP 146-90-04

Organization CA RTOP 578-12-23

Organization CA RTOP 229-01-02


Organization CA RTOP 229-81-02

Life Sciences

Category 51 Life Sciences (General)


Organization DM

Category 52 Aerospace Medicine


Organization DM RTOP 199-45-16


Organization DM RTOP 199-45-16


Organization DM RTOP 199-45-16


Organization DM RTOP 199-45-16


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Organization DM


Organization DM

Category 53 Behavioral Sciences


Organization DC


Organization DC


Organization DC


Organization DF

Mathematical and Computer Sciences

Category 59 Mathematical and Computer Sciences (General)


Organization A


Organization A

Organization A RTOP 505-90-52


Organization DF RTOP 323-43-33


Organization A RTOP 505-90-52


Organization DI RTOP 505-64-50


Organization DI RTOP 505-64-50


Organization GM RTOP 505-59-53


Organization A RTOP 505-90-52


Organization DM RTOP 505-59-53


Organization GM RTOP 505-90-53


Organization DF RTOP 505-63-36


Organization DF RTOP 505-63-36
Organization GM RTOP 505-90-53

Organization GM RTOP 505-90-53

Organization GM RTOP 505-90-53

Category 60 Computer Operations and Hardware

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization DI RTOP 505-64-10

Organization DI RTOP 505-64-10

Organization A RTOP 505-90-52

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Organization A RTOP 505-90-52

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Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization DC  RTOP 537-08-20


Organization A  RTOP 505-90-52


Organization A  RTOP 505-90-52


Organization A  RTOP 505-90-52


Organization A  RTOP 505-90-52


Organization A  RTOP 505-90-52


Organization GM  RTOP 505-90-53


Organization A  RTOP 505-90-52


Organization A  RTOP 505-90-52
Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

**Category 61 Computer Programming and Software**

Organization GK

Organization GM
Organization CA

Organization DI RTOP 233-01-03

Organization GM

Organization GM

Organization DC

Organization DI RTOP 233-01-03

Organization DS

Organization GM RTOP 505-90-53

Organization GM RTOP 505-90-53

Organization DI RTOP 233-01-03

Organization D RTOP 509-10-11

Organization DG


Category 62 Computer Systems


Organization DI RTOP 505-64-10


Organization GM RTOP 505-90-53


Organization DI RTOP 505-64-10


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Organization DI RTOP 505-64-50


Organization GM RTOP 505-90-53


Organization DI RTOP 505-64-10


Organization DI RTOP 505-64-10


Organization DI RTOP 505-64-10


Organization DI RTOP 505-64-10


Organization DI RTOP 505-64-10


Organization GM RTOP 505-90-53


Category 63 Cybernetics


Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization DS RTOP 424-20-02

Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

Organization DS RTOP 537-06-21

Organization DS RTOP 537-06-21

Organization A RTOP 505-90-52
Organization A RTOP 505-90-52

Organization A RTOP 505-90-52

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Organization A RTOP 505-90-52

**Category 65 Statistics and Probability**

Organization DC

Organization DI

**Category 66 Systems Analysis**

Organization GG

Organization CB RTOP 242-10-01

Organization DI RTOP 505-64-50

Organization DI RTOP 505-64-50
Organization CB RTOP 242-10-01

Organization DI RTOP 538-01-12

Organization CB RTOP 242-10-01

Physics

Category 70 Physics (General)

Organization CA RTOP 578-12-23

Organization DM RTOP 538-02-11

Category 71 Acoustics

Organization DF RTOP 505-59-52

Organization GH RTOP 505-59-54

Organization DF RTOP 505-63-50


Organization DF
RTOP 538-03-11

Organization DF
RTOP 538-03-11

Organization DF
RTOP 505-63-50

Organization DF
RTOP 538-03-15

Organization DF
RTOP 505-63-50

Organization DF
RTOP 505-63-50

Organization DF
RTOP 505-63-36

Organization DF
RTOP 505-63-36

Organization DF
RTOP 538-03-12

Organization DF
RTOP 505-63-36

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Organization DF RTOP 538-03-14

Organization DF RTOP 538-03-15

Organization DF RTOP 505-59-52

Organization DF RTOP 537-02-22

Organization DF RTOP 505-59-52

Organization A RTOP 505-90-52


Organization DF RTOP 538-03-11

Organization DF RTOP 776-33-41

Organization DF RTOP 537-06-22

Organization DF RTOP 538-03-14
Organization DF  RTOP 505-63-36

Organization DF  RTOP 505-59-52

Organization DF  RTOP 538-03-14

Organization DM  RTOP 506-43-11

Organization DF  RTOP 505-63-50

Organization DF

Organization DF  RTOP 505-63-50

Organization DF  RTOP 505-63-36

Organization DF  RTOP 538-07-14

Organization DF  RTOP 537-03-21

Organization DF  RTOP 505-63-50

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Organization DF RTOP 505-63-50


Organization DF RTOP 505-59-52


Organization DF RTOP 538-03-11


Organization DF RTOP 538-03-11


Organization DF RTOP 538-03-11


Organization DF RTOP 538-03-13


Organization DF RTOP 505-63-36


Organization DF RTOP 505-63-36


Organization DF


Organization DF RTOP 538-03-11


Organization DF RTOP 538-03-15


Organization DF RTOP 505-63-36

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Organization GL

Organization DF

Organization DF

Organization DF

Organization DF

Organization DF

Organization DF

Organization DF

Organization DF

Organization DF

Organizations

A RTOP 505-90-52


Organizations

DF RTOP 537-06-22


Organizations

DF RTOP 538-03-15


Organizations

DF RTOP 538-07-15


Organizations

DF RTOP 538-07-13


Organizations

DF RTOP 538-03-11


Organizations

DF RTOP 505-63-36


Organizations

DF RTOP 537-06-22


Organizations

DF RTOP 538-03-14

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Organisation DF RTOP 537-02-22

Organisation DF RTOP 532-06-37

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Organisation DF RTOP 505-63-36

Organisation DF RTOP 538-03-13

Organisation DM

Organisation DF RTOP 505-59-52

Organisation GH RTOP 505-61-01

Category 72 Atomic and Molecular Physics

Organisation CA RTOP 464-23-08

Organisation DM RTOP 199-45-16

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Organization CA RTOP 464-23-08


Organization DF RTOP 505-59-53


Organization DF RTOP 505-70-91


Organization DF RTOP 505-59-50


Organization CA RTOP 307-51-13


Organization CA RTOP 464-23-08


Organization DF RTOP 537-06-22


Organization DM RTOP 505-63-50

Category 73 Nuclear and High-Energy Physics


Organization DM RTOP 199-45-16

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Organization DM RTOP 199-45-16

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Category 74 Optics


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Organization GJ

Organization DM RTOP 538-02-11

Organization DM

Organization DM

Organization GH

Organization DF RTOP 538-03-12

Organization GJ

Organization DF RTOP 505-59-50

Category 76 Solid-State Physics

Organization GL RTOP 233-01-03

Organization GL RTOP 233-01-03

Organization GL RTOP 233-01-03


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Organization DM

Category 77 Thermodynamics and Statistical Physics


Organization DM


Organization DM

Social Sciences

Category 80 Social Sciences (General)


Organization AE

Category 81 Administration and Management


Organization CB

Category 82 Documentation and Information Science


Organization GM

Organization GM
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