

TOKAMAK Bibliography

compiled by

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**MAX-PLANCK-INSTITUT FÜR PLASMAPHYSIK**

**GARCHING BEI MÜNCHEN**

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## Foreword

The recent exciting experimental results (1) of the Russian TOKAMAK devices T-3 and TM-3 have stimulated world-wide interest. In several laboratories TOKAMAK-like devices have been built or are under construction. In view of this activity, there appears to be a need to co-ordinate the early literature with the recent literature "explosion" on this subject. Bibliographies (2,3) of some of the pertinent theoretical and experimental work already exist. The following bibliography now attempts to

- 1) make the list as complete as possible;
- 2) cross-reference the Russian literature as accurately as possible. This is important because translations are made simultaneously by several different agencies or institutions, and it is not always clear that the several reports which result deal with the same work;
- 3) include representative literature from neighbouring fields of research which can or could be relevant to TOKAMAK. An absolute criterion for relevance does not exist, so that in a sense completeness is unobtainable.

Representative literature from the field of Dynamic Equilibrium and Stability, Feedback Stabilization, Toroidal Confinement, Diagnostics, Plasma Injection, Plasma Heating, Transport Processes, Z Pinches and Fast Toroidal Pinches (e.g. the Alpha, Beta and Zeta devices) has been included. Some Stellarator literature is also relevant. Indeed, this bibliography is perhaps more accurately described as one for Toroidal Configurations with the emphasis on low-beta plasma systems.

As this first version has been compiled as quickly as possible to satisfy the immediate needs of TOKAMAK researchers, it is by no means complete. Suggestions, corrections and comments are welcomed, so that it will be possible to issue an improved version at some later stage.

This bibliography is in the form of the Plasma Physics Index (4), so that there are three main sections:

- (1) Publications with titles, authors, reference(s) and classification by key-words.

An attempt has been made to order publications chronologically. Where several versions of the same work exist (e.g. translations and originals, publications and conference proceedings), an attempt has been made to combine them rather than list them separately. Although the published English version usually appears first, the date of the original report has been used in the chronological ordering.

- (2) Author Index

- (3) Subject Index (Classification by key-words).

References are often made to summer schools, books and conferences. A detailed list of those used is included.

Finally, I should like to acknowledge the assistance of Dr. K.U. von Hagenow and the IPP documentation staff, in particular Mrs. M. Müller-Verweyen. Without their willing help this report would never have appeared. They are, however, in no way responsible for any errors which may (still!) exist. Many thanks are due to Dr. H. Luc of Fontenay-aux-Roses (France) whose advice and co-operation proved most valuable.

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- WAVE PARTICLE INTERACTIONS  
 298 RAPID PLASMA HEATING BY CURRENT INDUCED TURBULENCE IN A TORUS
- WAVE WAVE INTERACTIONS  
 176 ANOMALOUS DIFFUSION OF PLASMA IN MAGNETOHYDRODYNAMICS
- WAVES IN MAGNETIC FIELDS  
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List of Conferences and Summer Schools

Conference on Controlled Thermonuclear Reactions  
Gatlinburg, Tenn., June 4-7, 1956

United Nations 2nd. International Conference on the Peaceful Uses of Atomic  
Energy  
Geneva, Sept. 1-13, 1958  
Proceedings: Vol. 31, Theoretical and Experimental Aspects of Controlled  
Nuclear Fusion

Conference on the Theoretical Aspects of Controlled Fusion Research  
Gatlinburg, Tenn., April 27-28, 1959

Les Houches Summer School  
École d'Été de Physique Theorique: Les Houches  
The Theory of Neutral and Ionized Gases  
(Le Problème des  $n$  Corps à températures non nulle)  
C.de Witt, J.F. Detoeuf  
Université de Grenoble, France 1959

International Summer Course in Plasma Physics, Nov. 1960  
Danish Atomic Energy Commission  
Research Establishment Risø, Physics Dept.  
Risø Report No. 18

Plasma Physics and Controlled Nuclear Fusion Research Conference  
Salzburg, Austria, Sept. 4-9 1961:  
Nuclear Fusion Supplement 1962  
Translation of Russian Papers AEC-Tr-5589 (2 volumes)

U.N. 3rd. International Conference on Peaceful Uses of Atomic Energy  
Geneva, 1964

International Symposium on Diffusion of Plasma across a Magnetic Field  
Feldafing/Starnberger See, Germany, June 29 - July 3, 1964

EURATOM Symposium on Plasma Physics  
Varenna, Italy, Oct. 12-17, 1964

Plasma Physics and Controlled Nuclear Fusion Research Conference  
Culham, England, Sept. 6-10, 1965

1st. European Conference on Controlled Fusion and Plasma Physics,  
Munich, Germany, Oct. 10-13, 1966

EURATOM Symposium on Theoretical Plasma Physics  
Varenna, Italy, May 9-12, 1966

Ninth Annual Meeting, Division of Plasma Physics, A.P.S.  
Austin, Texas, Nov. 8-11, 1967



2nd. European Conference on Controlled Fusion and Plasma Physics  
Stockholm, Sweden, Aug. 14-18, 1967  
Abstracts: Plasma Physics, Vol. 10, 1968, 421-477

Second International Colloquium on the Interaction of High-Frequency  
Electromagnetic Fields with a Plasma  
Paris-Saclay, Jan. 1968

Annual Meeting of the Division of Plasma Physics, A.P.S.  
Miami Beach, Florida, Nov. 13-16, 1968  
Bull. A. Phys. Soc., Series 11, Vol. 13, No. 11, 1968

Plasma Physics and Controlled Nuclear Fusion Research  
Novosibirsk, Aug. 1-7, 1968  
Translation of Russian Papers: Nuclear Fusion, Special Supplement, 1969

Annual Meeting on Theoretical Aspects of Controlled Thermonuclear Fusion,  
Lawrence Radiation Laboratory, Berkeley, Cal., May 6-7, 1968  
(Sherwood Meeting)

APS Topical Conference on Numerical Simulation of Plasma  
Los Alamos, New Mexico, Sept. 18-20, 1968  
LA-3390, UC-20 Controlled Thermonuclear Processes TID-4500

First All-Union Conference on Plasma Confinement in Closed Magnet Systems,  
Moscow, U.S.S.R., FIAN, April 15-19, 1968

Colloquium on Closed Configurations  
Rottach-Egern, Germany, March 18-21, 1969

Annual Sherwood Theoretical Meeting  
Gatlinburg, Tenn., April 24-25, 1969

Third European Conference on Controlled Fusion and Plasma Physics  
Symposium on Beam-Plasma Interactions  
Utrecht, The Netherlands, June 23-27, 1969

Annual Meeting of the Division of Plasma Physics A.P.S.  
Los Angeles, Cal., Nov. 12-15, 1969

International Symposium on Closed Confinement Systems  
Dubna, U.S.S.R., Sept. 29-Oct. 3, 1969

British Nuclear Energy Society Nuclear Fusion Reactors Conference  
UKAEA, Culham Laboratory, Abingdon, Berks., Sept. 17-19, 1969

2nd. Orsay Summer Institute, 1969  
"Nonlinear Effects in Plasmas", Gordon and Breach, 1969  
Editors: G. Kalman, M. Feix

Sherwood Theoretical Meeting  
Princeton, N.J., April 23-25, 1970

Fourth European Conference on Controlled Fusion and Plasma Physics  
Rome, Italy, Aug. 31 - Sept. 4, 1970

A.P.S. Fall General Meeting 1970  
New Orleans, Louisiana, Nov. 23-25, 1970

American Physical Society, Spring Meeting 1970  
Washington, D.C. April 27-30, 1970

Symposium on Thermonuclear Fusion Reactor Design  
Texas Tech. University, ORO-3778-3, June 2-5, 1970

ABBREVIATIONS FOR PUBLICATIONS, PLASMA PHYSICS

A

ACTA PHYS.AUSTR.	ACTA PHYSICA AUSTRIACA
ACTA PHYS.HELV.	ACTA PHYSICA HELVETICA
ACTA PHYS.POL.	ACTA PHYSICA POLONICA
ADV.EN.CONVERS.	ADVANCED ENERGY CONVERSION
ADV.IN PHYS.	ADVANCES IN PHYSICS
AIAA JOURNAL	AIAA JOURNAL
AMER.J.PHYS.	AMERICAN JOURNAL OF PHYSICS
AM.MATH.MONTHLY	THE AMERICAN MATHEMATICAL MONTHLY
ANN.DE GEOPHYS.	ANNALES DE GEOPHYSIQUE
ANN.MATH.	ANNALS OF MATHEMATICS
ANN.PHYS.(GERM.)	ANNALEN DER PHYSIK
ANN.PHYS.(FR.)	ANNALES DE PHYSIQUE
ANN.PHYS.(USA)	ANNALS OF PHYSICS
ANN.REV.MOD.SCI.	ANNUAL REVIEW OF MODERN SCIENCES
APPL.OPTICS	APPLIED OPTICS
APPL.PHYS.LETT.	APPLIED PHYSICS LETTERS
APPL.SCI.RES.	APPLIED SCIENTIFIC RESEARCH
A.RAT.MECH.ANAL.	ARCHIV FOR RATIONAL MECHANICS AND ANALYSIS
ARK.FYS.	ARKIV FOER FYSIK (IN ENGLISH)
ARK.GEOFYS.	ARKIV FOER GEOFYSIK
ASTRON.-A.PHYS.	ASTRONOMY AND ASTROPHYSICS
ASTROPHYSICS	ASTROPHYSICS
ASTROPHYS.J.	ASTROPHYSICAL JOURNAL
ASTROPH.J.LETT.	ASTROPHYSICAL JOURNAL LETTERS
ASTROPH.J.SUPPL.	ASTROPHYSICAL JOURNAL SUPPLEMENT
AUSTRAL.J.PHYS.	AUSTRALIAN JOURNAL OF PHYSICS
ATOMIC DATA	ATOMIC DATA

B

BEITR.PL.PHYSIK	BEITRAEGE AUS DER PLASMAPHYSIK
BILD D.WISSENS.	BILD DER WISSENSCHAFTEN
BIT	NORDISK TIDSKRIFT FOR INFORMATIONS BEHANDLING (BIT)
BULL.A.MATH.SOC.	BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY
BULL.A.PHYS.SOC.	BULLETIN OF THE AMERICAN PHYSICAL SOCIETY
BULL.A.SCI.USSR	BULLETIN OF THE AKADEMY OF SCIENCES OF THE USSR, PHYSICS SERIES
BWK	BRENNSTOFF-WAERME-KRAFT, Z.FUER ENERGIETECHNIK UND ENERGIEWIRTSCHAFT

C

CANAD.J.PHYS.	CANADIAN JOURNAL OF PHYSICS
C.PURE-APP.MATH.	COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS
COMM.MATH.PHYS.	COMMUNICATIONS IN MATHEMATICAL PHYSICS
CR ACAD.SCI.	COMPTES RENDUS DE L'ACADEMIE DE SCIENCES,PARIS
CONTEMP.PHYS.	CONTEMPORARY PHYSICS
CZECH.J.PHYS.	CZECHOSLOVAK JOURNAL OF PHYSICS

D

DIFF.EQUATIONS	DIFFERENTIAL EQUATIONS
DISC.FARAD.SOC.	DISCUSSIONS OF THE FARADAY SOCIETY
DOKLADY MAT.FIZ.	DOKLADY AKADEMII NAUK SSSR, MATEMATIKA FIZIKA

E

EL.LETTERS	ELECTRONIC LETTERS
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ENERGY CONVERS.  
EURATOM INF.  
EXP.TECH.D.PHYS.

ENERGY CONVERSION  
EURATOM INFORMATION  
EXPERIMENTELLE TECHNIK DER PHYSIK

F

FLUID DYNAMICS  
FORTSCHR.PHYS.

FLUID DYNAMICS  
FORTSCHRITTE DER PHYSIK

G

GEOMAGN.-AERON.

GEOMAGNETISM AND AERONOMY

H

HIGH TEMP.

HIGH TEMPERATURE (TEPLOFIZIKA)

I

IBM J.RES.DEVEL.  
IDEEN D.EX.WISS.  
IEEE J.Q.ELEC.  
IEEE T.AP  
IEEE T.M.TH.TN.  
IEEE T.I.MEAS.  
IEEE T.NUCL.SCI.  
IEEE SPECTRUM  
IL NUOVO CIM.(B)  
INT.J.ELECTR.  
INT.J.ENG.SCI.  
INT.J.NON-LIN.M.  
INZH.FIZ.ZH.  
IZV.VUZ FIZIKA

IBM JOURNAL OF RESEARCH DEVELOPMENT  
IDEEN DES EXAKTEN WISSENS  
IEEE JOURNAL OF QUANTUM ELECTRONS  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES  
IEEE TRANSACTIONS ON INSTRUMENTS AND MEASUREMENTS  
IEEE TRANSACTIONS ON NUCLEAR SCIENCE  
IEEE SPECTRUM  
IL NUOVO CIMENTO (SERIE B)  
INTERNATIONAL JOURNAL OF ELECTRONICS  
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE  
INTERNATIONAL JOURNAL OF NONLINEAR MECHANICS  
INZHENERNO FIZICHESKIY ZHURNAL  
IZVESTIYA VUZ FIZIKA

J

JAP.J.APPL.PHYS.  
J.APPL.PHYS.  
J.APPL.SPECTR.  
J.ATM.TERR.PHYS.  
J.DE MECANIQUE  
J.DE PHYSIQUE  
J.FLUID MECH.  
J.GEOMAG.-GEDEL.  
J.GEOPHYS.RES.  
J.HEAT TRANSF.  
JMAA  
J.MASS SP.ION P.  
J.MATH.AND PHYS.  
J.MATH.PHYS.  
J.NUCL.ENERG.(C)  
J.OPTIC.SOC.AM.  
J.OF PHYSICS A  
J.OF PHYSICS B  
J.OF PHYSICS C  
J.OF PHYSICS D  
J.OF PHYSICS E  
J.PHYS.SCC.JAP.  
J.PL.PHYSICS  
J.Q.SP.RAD.TR.

JAPANESE JOURNAL OF APPLIED PHYSICS  
JOURNAL OF APPLIED PHYSICS  
JOURNAL OF APPLIED SPECTROSCOPY  
JOURNAL OF ATMOSPHERIC AND TERRESTRIAL PHYSICS  
JOURNAL DE MECANIQUE  
JOURNAL DE PHYSIQUE  
JOURNAL OF FLUID MECHANICS  
JOURNAL OF GEOMAGNETISM AND GEOELECTRICITY  
JOURNAL OF GEOPHYSICAL RESEARCH  
JOURNAL OF HEAT TRANSFER  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS  
INTERNATIONAL JOURNAL OF MASS SPECTROMETRY AND ION PHYSICS  
JOURNAL OF MATHEMATICS AND PHYSICS  
JOURNAL OF MATHEMATICAL PHYSICS  
JOURNAL OF NUCLEAR ENERGY (PART C)  
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA  
JOURNAL OF PHYSICS A (FORMERLY PROC.PHYS.SOC.GEN.)  
JOURNAL OF PHYSICS B (FORMERLY PROC.PHYS.SOC.B, A.-M.)  
JOURNAL OF PHYSICS C (FORMERLY PROC.PHYS.SOC.)  
JOURNAL OF PHYSICS D (FORMERLY B.J.OF APPL.PHYS.)  
JOURNAL OF PHYSICS E (FORMERLY J.SCI.INSTRUM.)  
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN  
JOURNAL OF PLASMA PHYSICS  
JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER

J.RES.NBS(B)

JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS

L

LASER FOCUS  
L.ALGEBRA-APPL.

LASER FOCUS  
LINEAR ALGEBRA AND ITS APPLICATION

M

MAG.GIDRODIN.  
MATH.ANNALEN  
MATHEMATICS J.  
MATH.OF COMP.  
MATH.-MATH.PHYS.  
MATH.SCI.  
MATH.ZEITSCHR.  
MECCANICA  
MEM.ROY.ASTR.SC.  
M.BER.D.AK.WISS.  
M.NOT.R.ASTR.SC.

MAGNITNAYA GIDRODINAMIKA  
MATHEMATISCHE ANNALEN  
MATHEMATICS JOURNAL  
MATHEMATICS OF COMPUTATION  
MATHEMATICS AND MATHEMATICAL PHYSICS  
MATHEMATICAL SCIENCES  
MATHEMATISCHE ZEITSCHRIFT  
MECCANICA  
MEMOIRS OF THE ROYAL ASTRONOMICAL SOCIETY  
MONATSBERICHTE DER DEUTSCHEN AKADEMIE DER WISSENSCHAFTEN ZU BERLIN  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY

N

NATURE  
NATURWISSENSCH.  
NATURW.RUNDSCHAU  
N.CIM.SUPPLM.  
NUCLEAR FUSION  
NUCL.F.SUPPLM.  
NUCL.SCI.ABSTR.  
NUM.MATHEMATIK

NATURE  
DIE NATURWISSENSCHAFTEN  
NATURWISSENSCHAFTLICHE RUNDSCHAU  
IL NUOVO CIMENTO - SUPPLEMENTO  
NUCLEAR FUSION  
NUCLEAR FUSION SUPPLEMENT  
NUCLEAR SCIENCE ABSTRACTS  
NUMERISCHE MATHEMATIK

O

OPTICA ACTA  
OPTICS-SPECTR.  
OPTIK

OPTICA ACTA  
OPTICS AND SPECTROSCOPY  
OPTIK, ZEITSCHRIFT FUER LICHT UND ELEKTRONENOPTIK

P

PHIL.MAG.  
PHIL.TRANS.  
PHYS.ABSTR.  
PHYS.BLAETTER  
PHYSICA  
PHYS.LETTERS  
PHYS.OF FLUIDS  
PHYS.REV.A  
PHYS.REV.B  
PHYS.REV.D  
PHYS.REV.LETTERS  
PHYS.STAT.SOL.  
PHYSICS TODAY  
PHYS.KOND.MAT.  
PLANET.SP.SCI.  
PL.PHYSICS  
PMM  
PMTF  
P.CAMB.PHIL.SOC.  
PROC.IEEE

THE PHILOSOPHICAL MAGAZINE  
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON  
PHYSICS ABSTRACTS  
PHYSIKALISCHE BLAETTER  
PHYSICA  
PHYSICS LETTERS  
THE PHYSICS OF FLUIDS  
PHYSICAL REVIEW A, GENERAL PHYSICS  
PHYSICAL REVIEW B, SOLID STATE  
PHYSICAL REVIEW D, PARTICLES AND FIELDS  
PHYSICAL REVIEW LETTERS  
PHYSICA STATUS SOLIDI  
PHYSICS TODAY  
PHYSIK DER KONDENSIERTEN MATERIE  
PLANETARY AND SPACE SCIENCES  
PLASMA PHYSICS (FORMERLY J.OF NUCL.ENERGY, PART C)  
JOURNAL OF APPLIED MATHEMATICS AND MECHANICS  
ZHURNAL PRIKLADNOI MEKHANIKI I TEKHNICHESKOI FIZIKI  
PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY, LONDON  
PROCEEDINGS OF THE IEEE

PROC. IEE  
PRCC. ROY. SOC.  
PROG. THEOR. PHYS.  
PROGR. TH. PH. SUP.

PROCEEDINGS OF THE IEE  
PROCEEDINGS OF THE ROYAL SOCIETY  
PROGRESS OF THEORETICAL PHYSICS  
PROGRESS OF THEORETICAL PHYSICS, SUPPLEMENT

Q

QU. J. M. APPL. M.  
QU. J. R. ASTR. SOC.

THE QUARTERLY JOURNAL OF MECHANICS AND APPLIED MATHEMATICS  
QUARTERLY JOURNAL OF THE ROYAL ASTRONOMIC SOCIETY

R

RADIO SCIENCE  
R. ENG. EL. PHYS.  
REV. MOD. PHYS.  
REV. D'OPTIQUE  
REV. PHYS. APPL.  
REV. ROUM. SC. T. MA  
REV. SCI. INSTRUM.

RADIO SCIENCE  
RADIO ENGINEERING AND ELECTRONIC PHYSICS  
REVIEW OF MODERN PHYSICS  
REVUE D'OPTIQUE  
REVUE DE PHYSIQUE APPLIQUEE  
REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE DE MECANIQUE APPLIQUEE  
THE REVIEW OF SCIENTIFIC INSTRUMENTS

S

SCIENCE J.  
SCI. AMERICAN  
SCIENTIA  
SCI. RES.  
SIAM J. NUM. ANAL.  
SIAM  
SIAM REVIEW  
SOLAR PHYSICS  
SOLID ST. COMMUN.  
SOLID ST. ELECTR.  
SOV. ATOM. ENERGY  
SOV. MATHEMATICS  
SOV. PHYS. J.  
SOV. PHYS. SOL. ST.  
SOV. PHYS. USPEKHI  
SOV. RADIOPHYS.  
SPACE SCI. REV.

SCIENCE JOURNAL  
SCIENTIFIC AMERICAN  
SCIENTIA  
SCIENTIFIC RESEARCH  
SIAM JOURNAL OF NUMERICAL ANALYSIS  
SIAM JOURNAL ON APPLIED MATHEMATICS  
SIAM REVIEW  
SOLAR PHYSICS  
SOLID STATE COMMUNICATIONS  
SOLID STATE ELECTRONICS  
SOVIET ATOMIC ENERGY  
SOVIET MATHEMATICS  
SOVIET PHYSICS JOURNAL  
SOVIET PHYSICS SOLID STATE  
SOVIET PHYSICS - USPEKHI  
SOVIET RADIOPHYSICS  
SPACE SCIENCE REVIEW

T

TEPLOFIZIKA

TEPLOFIZIKA VISOKIKH TEMPERATUR

U

UMSCHAU  
USSR CMM PHYS.

UMSCHAU  
U.S.S.R. COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS

Z

ZAMM  
ZAMP  
Z. ANGEW. PHYS.  
Z. ASTROPHYSIK  
ZHETF  
ZHETF-PR  
ZHTF  
Z. NATURFGRSCH.  
Z. PHYSIK

ZEITSCHRIFT FUER ANGEWANDTE MATHEMATIK UND MECHANIK  
ZEITSCHRIFT FUER ANGEWANDTE MATHEMATIK UND PHYSIK  
ZEITSCHRIFT FUER ANGEWANDTE PHYSIK  
ZEITSCHRIFT FUER ASTROPHYSIK  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI-PISMA V REDAKTSYU  
ZHURNAL TEKHNIЧЕСКОИ FIZIKI  
ZEITSCHRIFT FUER NATURFORSCHUNG  
ZEITSCHRIFT FUER PHYSIK

ABBREVIATIONS FOR INSTITUTES

A

ARL (RWD) AERONAUTICAL RESEARCH LABORATORY, RAMO-WOOLDRIDGE CORP. LOS ANGELES, CALIF.  
 ASC AEROSPACE CORP., EL SEGUNDO, CALIF.  
 SSD-TDR AEROSPACE CORPORATION, PHYSICAL RES. LAB., EL SEGUNDO, CALIF.  
 ATD AEROSPACE INFORMATION DIVISION, LIBRARY OF CONGRESS  
 ARL (AF) AEROSPACE RESEARCH LAB., WRIGHT PATTERSON AF BASE, OHIO  
 USAFIT AF INST. OF TECHN., SCHOOL OF ENGINEERING, WRIGHT-PATTERSON AF BASE, OHIO  
 AFOSR AF OFFICE OF SCIENTIFIC RESEARCH, WASHINGTON, D.C.  
 AFSWC AF SPECIAL WEAPONS RESEARCH LAB., KIRTLAND AFB, N. MEXICO  
 AFAPL AF SYSTEMS COMM., AERO-PROPULSION LAB., WRIGHT-PATTERSON AF BASE, OHIO  
 AFFDL AF FLIGHT DYNAMICS LAB., AF SYSTEMS COMM., WRIGHT-PATTERSON AF BASE, OHIO  
 FTD AF SYSTEMS COMMAND, FOREIGN TECHNOLOGY DIV., WRIGHT PATTERSON AFB, OHIO  
 AFSC-SEG AF SYSTEMS COMM., SYSTEMS ENG. GROUP (RTD), WRIGHT-PATTERSON AF BASE, OHIO  
 AFRCR AIR FORCE CAMBRIDGE RESEARCH CENTER, MASS.  
 AFRL AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, BEDFORD, MASS.  
 AFWL AIR FORCE WEAPONS LAB., KIRTLAND AF BASE, N. MEXICO  
 ITF AKAD. OF SCI. UKRAIN. SSR, INST. FOR THEORETICAL PHYSICS, KIEV  
 AE AKTIEBOLAGET ATOMENERGI, SWEDEN  
 AIAA-PAPERS AM. INST. OF AERONAUTICS AND ASTRONAUTICS, CONF. PAPERS, NEW YORK  
 NASA-ARC AMES RESEARCH CENTER, NASA, MOFFET FIELD, CALIF.  
 ANL ARGONNE NATIONAL LABORATORY, LEMONT, ILL.  
 ASTIA ARMED SERVICES TECHNICAL INFORMATION AGENCY, ARLINGTON, VA.  
 AEDC ARNOLD ENGINEERING DEVELOPM. CENTER, AFSC, ARNOLD AF STATION, TENNESSEE  
 ATS ASSOCIATED TECHNICAL SERVICE, EAST ORANGE, N. JERSEY  
 THOMAS A.S. THOMAS INC. PROVIDENCE, MASS.  
 AEC SU ATOMIC ENERGY COMMISSION OF THE USSR  
 AEC ATOMIC ENERGY COMMISSION, WASHINGTON, D.C.  
 AECA ATOMIC ENERGY OF CANADA, CHALK RIVER, ONTARIO  
 AERE ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKSHIRE  
 AI ATOMICS INTERNATIONAL, A DIV. OF NORTH-AM. AVIAT. CORP., CANOGA PARK, CALIF.  
 ASE AMERICAN SPACE AND ENGINEERING, INC., CAMBRIDGE, MASS.  
 AWRE ATOMIC WEAPON RES. ESTABLISHMENT, ALDERMASTON, BERKSHIRE, G.B.  
 CPD AUSTRAL. DEF. SCIENTIFIC SERVICE, WEAPONS RES. ESTABL., SALISBURY, S. AUSTRALIA  
 ADSS-WRE AUSTRALIAN DEFENSE SCI. SERV., WEAPONS RES. ESTABL., SALISBURY, S. AUSTRALIA  
 ANU-RSPS AUSTRALIAN NATIONAL UNIVERSITY, RESEARCH SCHOOL OF PHYSICAL SCIENCES  
 AERL AVCO RESEARCH LABORATORIES, A DIV. OF AVCO CORP., EVERETT, MASS.

B

BSSSD BALLISTIC SYST. AND SPACE SYST. DIV., LOS ANGELES AF STATION, CALIF.  
 BNWL BATELLE-NORTHWEST, BATELLE MEMORIAL INSTITUTE, RICHLAND, WASH.  
 BBCZF BBC-HEIDELBERG, GERMANY, ZENTRALES FORSCHUNGSLABOR  
 BTS BELL TELEPHONE SYSTEM  
 BBG BERLINER BUNSEN GESELLSCHAFT FUER PHYSIKALISCHE CHEMIE, BERLIN  
 BRLP BOEING RESEARCH LAB., PL. PHYSICS, SEATTLE  
 BRGAL BOEING SCIENTIFIC RES. LAB., GEO-ASTROPHYSICS LAB., SEATTLE, WASH.  
 BNL BROOKSHAVEN NATIONAL LABORATORY, UPTON, N.Y.  
 BUN-ENG BROWN UNIVERSITY, DIV. OF ENGINEERING, PROVIDENCE  
 BMBW BUNDESMINISTERIUM FUER BILDUNG UND WISSENSCHAFT, KARLSRUHE, GERMANY  
 BMWF BUNDESMINISTERIUM F. WISSENSCHAFT U. FORSCHUNG, BONN, GERMANY

C

CIT CALIFORNIAN INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.  
 CITC CASE INSTITUTE OF TECHNOLOGY, UNIVERSITY CIRCLE, CLEVELAND, OHIO  
 CUA-SSAP CATHOLIC UNIV. OF AMERICA, DEP. OF SPACE SCI. AND APPL. PHYSICS, WASH.  
 TNO CENTRAAL LABORATORIUM, DELFT, NETHERLANDS

CFAS	CENTRE D'ETUDE NUCLEAIRE, SACLEY, EURATOM
CHUG	CHALMERS UNIV. OF TECHNOLOGY, RES. LAB. OF ELECTRONICS, GOTHENBURG, SWEDEN
REP	CHEMICAL COMPANY, ROCKY FLATS DIV., GOLDEN, COLO.
OUCL	CLARENDON LAB., OXFORD UNIVERSITY
COA	COLLEGE OF AERONAUTICS, CRANFIELD
CWM-PPL	COLLEGE OF WILLIAM AND MARY, WILLIAMSBURG, VIRG., PLASMA PHYS. LAB.
UCOL	COLORADO UNIVERSITY, BOULDER, COLORADO
CU (PNPL)	COLUMBIA UNIVERSITY IN THE CITY OF N.Y., PLASMA PHYSICS LABORATORY
IUPAC	COMMISSION ON HIGH TEMPERATURES AND REFRACTORIES, VIENNA, AUSTRIA
CNAEM	CEKMECE NUCLEAR RESEARCH CENTER, ISTANBUL, TURKEY
CNEN	COMITATO NAZIONALE ENERGIA NUCLEARE, ROMA
CNEA	COMISION NACIONAL DE ENERGIA ATOMICA, REP. ARGENTINA, BUENOS AIRES
CAL	CORNELL AERONAUTICAL LAB., INC., BUFFALO
CURL	CORNELL UNIVERSITY ITHACA, NEW YORK
CLM	CULHAM LABORATORY, CULHAM, ABINGDON, BERKSHIRE, G.B.
CTO	CULHAM LABORATORY, CULHAM TRANSLATION OFFICE, CULHAM, ABINGDON, BERKSHIRE

D

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DTMB	DAVID TAYLOR MODEL BASIN, DEP. OF THE NAVY, CARDEROCK, MD.
DASA	DEFENSE ATOMIC SUPPORT AGENCY, WASHINGTON, D.C.
DDC	DEFENSE DOCUMENTATION CENTER, ALEXANDRIA VIRGINIA USA
DAE	DEPT. OF AERONAUTICAL ENG., INDIAN INST. OF SCIENCE, BANGALORE, INDIA
ESSEX-CHEM	DEPARTMENT OF CHEMISTRY, UNIVERSITY OF ESSEX, COLCHESTER, G.B.
UCPLPG	DEPARTM. OF PHYSICS, UNIVERSITY OF CALIFORNIA LOS ANGELES, PL. PHYSICS GROUP
UNEV	DESERT RESEARCH INSTITUTE, UNIV. OF NEVADA
DFVLR	DEUTSCHE FORSCHUNGS UND VERSUCHSANSTALT FUER LUFT UND RAUMFAHRT E.V.
DTSCH. PAT. AMT	DEUTSCHES BUNDESPATENTAMT, MUENCHEN, GERMANY
DLR	DEUTSCHE LUFT-UND RAUMFAHRT FORSCHUNGSBER., ED. BY DVL AND ZLD, MUNICH
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LB	DOUGLAS AIRCRAFT CORPORATION, LONG BEACH, CALIF.
DAC-AD	DOUGLAS AIRCRAFT CORPORATION, AIRCRAFT DIV., LONG BEACH, CALIF.
DCRF	DOW CHEMICAL COMPANY, ROCKY FLATS DIVISION
DP-SRL	DUPONT, SAVANNAH RIVER LAB., AIKEN, S. CAROLINA
DREV	DEFENSE RESEARCH ESTABLISHMENT VALCARTIER, QUEBEC, CANADA

E

THE	EINDHOVEN UNIVERSITY OF TECHNOLOGY NETHERLANDS DEP. OF ELECTRICAL ENGIN.
ERM-LPP	ECOLE ROYALE MILITAIRE BRUXELLES, LAB. DE PHYS. DES PLASMAS, BELGIUM
ELP	ELCON LAB. INC., PEABODY, MASS.
ENEA	EUROPEAN NUCLEAR ENERGY AGENCY, ORGAN. FOR ECONOMIC CORP. AND DEVELOPMENT
EMI	ERNST-MACH-INSTITUT, FREIBURG, GERMANY
EUR-CEA	EUR - COMMISSARIAT A L'ENERGIE ATOMIQUE
EUR	EUROPEAN ATOMIC ENERGY COMMUNITY
ESRO	EUROPEAN SPACE RESEARCH ORGANIZATION, PARIS, FRANCE

F

SAMP	FACULTE DE SCIENCES, PARIS, SECTION ASTROPHYSIQUE MEUDON, PARIS
FEI	FIZIKA ENERGETICHESKII INSTITUT, USSR
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SRL	FRANK J. SEIFER RESEARCH LAB., USAF ACADEMY, COLORADO
FOM	FUNDAMENTEFL ONDERZOEK DER MATERIE-INST. F. PLASMAPHYS., RIJNHUIZEN
FOM-IKO	FOM, INST. VOOR KERNPHYSISCH ONDERZOEK



## G

NIT-GDL GAS DISCHARGE LABORATORY, THE INST.OF TECHNOLOGY, TRONDHEIM, NORWAY  
 ILL-GEL GASEOUS ELECTRONICS LAB., UNIV.OF ILLINOIS, URBANA, ILL.  
 GCA GCA CORPORATION, TECHNOLOGY DIVISION, BEDFORD, MASS.  
 GA GENERAL ATOMIC, DIVISION OF GENERAL DYNAMICS, SAN DIEGO, CALIF.  
 GDC GENERAL DYNAMICS, CONVAIR, SAN DIEGO, CALIF.  
 GD-FW GENERAL DYNAMICS, FORT WORTH, TEX.  
 GE-ZR GENERAL ELECTRIC RESEARCH LABORATORY, SCHENECTADY, N.JERSEY  
 GEMS GENERAL ELECTRIC, MISSILE AND SPACE DIV., SPACE SCIENCES LAB., PHILADELPHIA  
 GMRL GENERAL MOTORS GROUP, RES.LAB., DETROIT, ILL.  
 GIT GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, GEORGIA  
 JUEL GES.F.KERNFORSCHUNG, INST.F.PLASMAPHYSIK, JUELICH, GERMANY  
 KFK GESELLSCHAFT FUER KERNFORSCHUNG M.B.H., KARLSRUHE  
 DEMO GREEK ATOM.ENERGY COMM.NUCL.RES.CENTER AGHIA PARASKEVI ATTIKIS, ATHENS  
 CEAF GROUPE DE RECHERCHE DE L'ASSOCIATION EURATOM, FONTENAY-AUX-ROSES  
 GRDM GRUMAN RESEARCH DEPARTMENT MEMORANDUM  
 GSF GESELLSCHAFT FUER STRAHLENFORSCHUNG M.B.H., MUENCHEN  
 GSFC GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND  
 GGA GULF GENERAL ATOMIC, INC., SAN DIEGO, CALIF.

## H

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 HUX HARVARD UNIVERSITY, CAMBRIDGE, MASS.  
 HMI HAHN-MEITNER INST.F.KERNFORSCHUNG, BERLIN  
 HDL HARRY DIAMOND LABORATORIES, ARMY MATERIAL COMM., WASHINGTON, D.C.  
 HEB HEBREW UNIVERSITY, JERUSALEM, ISRAEL  
 HRL HUGHES RES.LAB., MALIBU, CALIF.

## I

IRTB INDUSTRIAL RESEARCH INSTITUTE FOR TELECOMMUNICATION, BUDAPEST  
 IMJ INST.F.MAGNETOHYDRODYNAMIK, JENA  
 IN IDAHO NUCLEAR CORPORATION, NATIONAL REACTOR TESTING STATION, IDAHO FALLS  
 IPF INST.F.PLASMAFORSCHUNG DER TH STUTTGART (FORMERLY IHT)  
 IPP INST.F.PLASMAPHYSIK, GARCHING B.MUENCHEN, GERMANY  
 UCSD-IRA INST.F.RADIATION PHYSICS AND AERODYNAMICS, UNIV.OF CALIF., LA JOLLA, CALIF.  
 LRP INSTITUT FUER PLASMAPHYSIK, LAUSANNE  
 IYAFSO INSTITUT YADERNOI FIZIKI SIBIRSKOGO OTELENIYA AN SSSR, NOVOSIBIRSK  
 IBJW INSTITUTE BODAN JADROWICH, WARSHAW  
 IDA INST.F.DEFENSE ANALYSIS, RES.AND ENG.SUPPORT DIV.COMP.  
 ISAS INSTITUTE OF SPACE AND AERONAUTICAL SCIENCE, UNIV.OF TOKIO, JAPAN  
 IFA INSTITUTE FRANCO-ALLEMAND DE RECHERCHES, ST. LOUIS  
 IEEJ INSTITUTE OF ELECTRICAL ENGINEERS OF JAPAN  
 UC-IGP INST.OF GEOPHYSICS AND PLANETARY PHYSICS, UNIV.OF CALIFORNIA, LOS ANGELES  
 IPPCZ INST.OF PLASMA PHYSICS, THE ACADEMY OF SCIENCES OF THE CSSR  
 SOAN INSTITUT OF NUCLEAR PHYSICS SOAN, NOVOSIBIRSK, UDSSR  
 IPPJ INST.OF PLASMA PHYSICS, NAGOYA UNIVERSITY, NAGOYA, JAPAN  
 IPPNO INSTITUTE OF PLASMA PHYSICS, NOVOROSSIK (SEE ALSO IYAFSO)  
 I AN SSSR INSTITUTE OF THE ACAD.OF SCI.OF THE USSR  
 ITAB INSTITUTE OF THEORETICAL ASTROPHYSICS, BLINDERN, OSLO  
 ITEF INST.OF THEOR.AND EXPERIM. PHYSICS OF THE USSR ATOMIC ENERGY COM.  
 IAEA INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, AUSTRIA  
 IC INTERNATIONAL CENTER FOR THEORETICAL PHYSICS, TRIESTE, ITALY, (IAEA)  
 IS IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, INST.OF ATOMIC RES., AMES  
 IA ISRAEL ATOMIC ENERGY COMMISSION, TEL AVIV  
 IFUM IST.DI SCIENZE FISICHE, UNIV.DEGLI STUDI DI MILANO, ITALY

ITF INSTITUT TEORETICHESKOI FIZIKI UKRAIN.AKAD.NAUK, KIEV USSR  
ITKHF INSTITUT TEKHNICHESKOI FIZIKI AK.NAUK SSR, KHARKOV, USSR  
ITP INSTITUTE FOR THEORETICAL PHYS., ROLAND EOTVOS UNIV., BUDAPEST

J

JAERI JAPAN ATOMIC ENERGY RESEARCH INSTITUTE  
JPL JET PROPULSION LAB., PASADENA, CALIF.  
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OIJAL JOINT INSTITUTE FOR NUCLEAR RESEARCH, DUBNA  
JPRS JOINT PUBLICATIONS RESEARCH SERVICE, CITY OF NEW YORK

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KTHH KUNGL.TEKN.HOEGSKOLANS HANDLINGAR, SWEDEN  
KIM KURCHATOV INSTITUTE FOR ATOMIC ENERGY, MOSCOW  
KYU KYOTO UNIVERSITY, DEP.OF ELECTRICAL ENG., FACULTY OF ENG., KYOTO, JAPAN  
KYU-DE KYOTO UNIVERSITY, DEP.OF AERONAUTICAL ENGINEERING, KYOTO, JAPAN

L

LRK LABORATOIRE DE RECHERCHES A KRAAINEN, BRUXELLES, BELGIUM  
LNF LABORATORI NAZIONALI DI FRASCATI DEL CNEN, FRASCATI, ROMA, ITALY  
LGI LABORATORIO GAS IONIZZATI, FRASCATI, ROMA, ITALY  
IRLC LABORATORY FOR INSULATION RESEARCH, CAMBRIDGE  
PMI LAB.DE PHYS.DES MILIEUX IONISES, ECOLE POLYTECHNIQUE, PARIS-VEVE  
LRL LAWRENCE RADIATION LAB., UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIF.  
LIM LEREDV INSTITUTE MOSCOW  
NACA LEWIS FLIGHT RESEARCH CENTER, CLEVELAND, OHIO  
LLM LINCOLN LABORATORY, MASSACHUSETTS  
LCC LOCKHEED CALIFORNIA CORPORATION, BURBANK, CALIF.  
LA LOS ALAMOS SCIENTIFIC LABORATORY, N.MEXICO

M

MND MARTIN, BALTIMORE DIVISION, BALTIMORE, MARYLAND  
MIT MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.  
MIT-CSR MASS.INST.OF TECHN., CENTER FOR SPACE RESEARCH  
MIT-FML MASS.INST.OF TECHN., FLUID MECHANICS LAB., DEP.OF MECHANICAL ENGINEERING  
MIT-LIR MASS.INST.OF TECHN., LABORATORY FOR INSULATION RESEARCH  
MIT-RLE MASS.INST.OF TECHN., RES.LAB.OF ELECTRONICS, CAMBRIDGE, MASS.  
MPI MAX-PLANCK-INSTITUT FUER PHYSIK UND ASTROPHYSIK, MUENCHEN  
MPIK MAX-PLANCK-INSTITUT FUER KERNPHYSIK, HEIDELBERG, GERMANY  
MCDONNELL-RD MC DONNELL COMP.RESEARCH DIVISION, ST.LOUIS, MISSOURI  
MSUCP MICHIGAN STATE UNIVERSITY, DEP.OF PHYSICS, EAST LANSING  
MURA MIDWESTERN UNIVERSITY RESEARCH ASS., MADISON, WISC.  
MTARC-C.P. MINISTRY OF TECHNOLOGY AERONAUTICAL RES.COUNCIL, CURRENT PAPERS, G.B.  
MLM MOUND LABORATORY, MTAMISBURG, OHIO

N

NAGOYA NAGOYA UNIV., DEP.OF PHYSICS, CHIKUSA NAGOYA JAPAN  
NAL NATIONAL AERONAUTICAL LAB., BANGALORE, INDIA  
NASA NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C.  
NPS NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.  
NCAR NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, COL.  
NRC NATIONAL RESEARCH COUNCIL OF CANADA  
NOLC NAVAL ORDNANCE LABORATORY, CORONA, CALIF.

NRL NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.  
 NPS NAVAL POSTGRADUATE SCHOOL, MONTERFY, CALIFORNIA  
 NMSU NEW MEXICO STATE UNIVERSITY  
 NYU NEW YORK UNIVERSITY, N.Y.  
 MF NEW YORK UNIV., COURANT INST. OF MATHEM. SCI., MAGNETO-FLUID DYNAMICS DIV.  
 RHEL NIMROD DIV., RUTHERFORD HIGH ENERGY LAB., CHILTON, DIDCOT, BERKSHIRE, G.B.  
 NEU NORTH-EASTERN UNIVERSITY  
 NWU-GDL NORTHWESTERN UNIVERSITY, GAS DYNAMICS LABORATORY, EVANSTON, ILL.  
 NWU NORTHWESTERN UNIVERSITY, TECHNICAL INST., EVANSTON, ILL.  
 NIT-EIP NORVEGIAN INST. OF TECHNOLOGY, ELECTRON AND ION PHYSICS RESEARCH GROUP  
 NIT NORVEGIAN INST. TECHNOL., DIV. APPL. ELECTR., DEP. EL. ENG., TRONDHEIM, NORWAY  
 NEIC NUCLEAR ENERGY INFORMATION CENTER, POLAND  
 NETU NUCLEAR ENGINEERING, TOHOKU UNIVERSITY, JAPAN  
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 OTS OFFICE OF TECHNICAL SERVICES, WASHINGTON, D.C.  
 OSU-AL OHIO STATE UNIVERSITY, THE ANTENNA LABORATORY, COLUMBIA, OHIO  
 OSU OHIO STATE UNIVERSITY, COLUMBUS, OHIO  
 CERN ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE, GENEVE  
 OSB OSRAM STUDIENGESSELLSCHAFT, BERLIN

P

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 PSC PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK  
 PPC PHILLIPS PETROLEUM COMPANY, IDAHO  
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 PTR PHYSIKALISCH-TECHNISCHE BUNDESANSTALT, BRAUNSCHWEIG, BERLIN  
 UTEX-PDRL PLASMA DYNAMICS RESEARCH LAB., AUSTIN  
 USAS-PPL PLASMA PHYSICS LAB., UNIV. OF SASKATCHEWAN, SASKATOON, SAS.  
 PIBAL POLYTECHNICAL INSTITUTE OF BROOKLYN, N.J.  
 PIBAL-MRI POLYTECHNICAL INSTITUTE OF BROOKLYN, MICROWAVE RESEARCH INSTITUTE  
 PRINCETON-MATT PROJECT MATTERHORN, PRINCETON UNIV. PRINCETON, N.J.  
 PRINCETON PRINCETON UNIVERSITY, DEP. OF PHYSICS, PRINCETON, N.J.  
 PUR-CSD PURDUE UNIV., COMPUTER SCIENCES DEPARTMENT, DIV. OF MATH. SCIENCES  
 PUR-TR-EE PURDUE UNIVERSITY, LAFAYETTE-INDIANA-SCHOOL OF ELECTRICAL ENGINEERING

Q

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 RDW RADIATION DYNAMICS INC., WESTBURY, N.Y.  
 RM RAND CORPORATION, S. MONICA, CALIF.  
 PCC RCA - RESEARCH LABORATORY, MONTREAL, CANADA  
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S

SPQ SACRAMENTO PEAK OBSERVATORY, SUNSPOT, N. MEXICO  
SINP SAHA INSTITUTE OF NUCLEAR PHYSICS, CALCUTTA, INDIA  
SCTM SANDIA CORP. TECHNICAL MEMORANDUM, ALBUQUERQUE, N.M.  
SC SANDIA LABORATORIES ALBUQUERQUE, NEW MEXICO AND LIVERMORE, CALIF.  
SIGO SERVICE DE PHYSIQUE APPL. SECTION D'IONIQUE GENERALE, OIF-SUR-YVETTE, FR.  
SPPD SERVICE DE PHYS. DES PLASMAS, FAC. DE SCIENCES, UNIV. DE PARIS, ORSAY  
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MOBIL-CRDL SOCONY MOBIL OIL COMP. INC., CENTRAL RES. DIV. LAB., PRINCETON, N.J.  
SSI SPACE SCIENCES INC., WALTHAM, MASSACHUSETTS  
SFL STANFORD ELECTRONICS LABORATORY, PL. PHYSICS LAB., STANFORD UNIV., CALIF.  
SWCAS SOUTH WEST CENTER FOR ADVANCED STUDIES, DALLAS, TEX.  
SWRI SOUTH WEST RESEARCH INSTITUTE, SAN ANTONIO, TEXAS  
SSL SPACE SCIENCE LABORATORY LITTON SYSTEMS INC., BEVERLY HILL, CALIF.  
GM-TR SPACE TECHNOLOGY LABORATORIES INC., PHYS. RES. LAB., LOS ANGELES, CALIF.  
SP. PHYS. INC. SPECTRA PHYSICS INC., MOUNTAIN VIEW, COL.  
SRRC SPERRY RAND RESEARCH CENTER, SUDBURY, MASS.  
SLAC STANFORD LINEAR ACCELERATOR CENTER, STANFORD UNIVERSITY, CALIF.  
SRI STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIF.  
SUAA STANFORD UNIV., DEP. OF AERONAUTICS AND ASTRONAUTICS, STANFORD, CALIF.  
SU-CSD STANFORD UNIVERSITY, COMPUTER SCIENCE DEP. SCHOOL OF HUMANITIES AND SCI.  
SU-IPR STANFORD UNIVERSITY, INST. FOR PLASMA PHYSICS RESEARCH, CALIF.  
SU-ML STANFORD UNIVERSITY, W.W. HANSEN LAB., MICROWAVE LAB., STANFORD, CALIF.  
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SIT STEVENS INSTITUTE OF TECHNOLOGY, CASTLE POINT STATION, HOBOKEN, N. JERSEY  
SLP SYLVANIA LIGHTING PRODUCTS, DANVERS, MASS.

T

ORTIB TECHNICAL INFORMATION BRANCH, OAK RIDGE TENN.  
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FRM TECHN. HOCHSCHULE MUENCHEN, PHYSIKALISCHE LABORATORIEN, GERMANY  
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THAA TECHN. UNIVERSITAET AACHEN, 1. PHYSIKALISCHES INST., AACHEN, GERMANY  
TSRCT TECHNICAL AND SCIENTIFIC RESEARCH COUNCIL OF TURKEY  
TURIK TECHN. UNIV. BERLIN, INST. F. KERntechnik, WEST-BERLIN  
SPS TEL-AVIV UNIVERSITY, INST. OF PLANETARY AND SPACE SCIENCE, ISRAEL  
TUPP TEMPLE UNIVERSITY, DEP. OF PHYSICS, PHILADELPHIA, PA.  
CAN. PAT. OFF. THE PATENT OFFICE, OTTAWA, CANADA  
UTIA TORONTO UNIVERSITY, INSTITUTE OF AEROPHYSICS, TORONTO, CANADA  
UTIAS TORONTO UNIV. INSTITUTE FOR AEROSPACE STUDIES  
TPE TUFTS COLLEGE RESEARCH LABORATORY OF PHYSICAL ELECTRONICS, BEDFORD, MASS.

U

UAPL UNIV. OF ARKANSAS, DEP. OF ELECTRICAL ENGINEERING PLASMA AND MHD LAB.  
UKAEA-HL UKAEA, RES. GROUP, ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL  
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UACRL UNITED AIRCRAFT RESEARCH LAB., UNITED AIRCRAFT CORP., EAST HARTFORD, CONN.

UKAEA	UNITED KINGDOM ATOMIC ENERGY AUTHORITY
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UKI	UNIVERSITAET KIEL, GERMANY
UMN	UNIVERSITAET MUENCHEN, GERMANY
UNUP	UNIVERSITAET UPPSALA, SWEDEN
ULIE (MM)	UNIVERSITE DE LIEGE, MECHANIQUE, MATHEMATIQUE
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UNMOLP	UNIVERSITE DE MONTREAL, DEP.DE PHYS., LAB.DE PL.PHYS.
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ULB	UNIVERSITE LIBRE DE BRUXELLES
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UARI	UNIVERSITY OF ALABAMA, RESEARCH INST., HUNTSVILLE, ALABAMA
UNBER	UNIVERS.OF BERGEN, DEP.OF APPL.MATHEMATICS, BERGEN, NORWAY
UVA	UNIVERSITY OF BRITISH COLUMBIA, DEP.OF PHYSICS, VANCOUVER
UBR	UNIVERSITY OF BUCAREST, ROMANIA
UBA	UNIVERSITY OF BUENOS AIRES, PHYSICS DEPARTMENT
UC-PSS	UNIV.OF CALIF., DEP.OF PLANETARY AND SPACE SCIENCE, CALIF.
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UCER	UNIV.OF CALIFORNIA, INST.F.ENGINEERING RES., BERKELEY
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UC-LA JOLLA	UNIVERSITY OF CALIFORNIA, SAN DIEGO LA JOLLA, CALIF.
UCSSL	UNIV.OF CALIF., SPACE SCIENCE LAB., BERKELEY, CALIF.
EFNIS	UNIVERSITY OF CHICAGO, ENRICO FERMI INSTITUTE OF TECHNOLOGY
UNCON	UNIV.OF CONNECTICUT, AEROSPACE ENGIN.DEP., STORRS, CONNECTICUT
DRI	UNIVERSITY OF DENVER, COL.
UNFLO	UNIVERSITY OF FLORIDA, COLLEGE OF ENGINEERING, GAINESVILLE
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UMNE-IFDAM	UNIV.MARYLAND, INST.F.FLUID DYNAMICS AND APPL.MATHEMATICS, COLLEGE PARK
MIAPH	UNIV.OF MIAMI, DEP.OF PHYSICS, CORAL GABLES, FLORIDA
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UMAEC-EPL	UNIV.MICHIGAN, ELECTRON PHYSICS LAB.ANN ARBOR, MICHIGAN
UMAEC-RL	UNIV.OF MICHIGAN, COLLEGE OF ENG., RADIATION LAB., ANN ARBOR, MICHIGAN
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UMN-IT	UNIV.OF MINNESOTA, INST.OF TECHNOLOGY, MINNESOTA
UNIVOX-ENG	UNIV.OF OXFORD, DEP.OF ENGINEERING SCI., ENGINEERING LAB.OXFORD, G.B.
UPEE	UNIVERSITA DI PADOVA, ISTITUTO DI ELETTROTECNICA E DI ELETTRONICA
INDEC	UNIV.OF PENNSYLVANIA, INST.F.DIRECT ENERGY CONVERSION, PHILADELPHIA, PENN.
UNPITT	UNIV.OF PITTSBOURGH, PITTSBOURGH, PA.
UNPITT-SRCC	UNIV.OF PITTSBOURGH, SPACE RESEARCH COORDINATION CENTER
UR-AEP	UNIVERSITY OF ROCHESTER, ATOMIC ENERGY PROJECT, ROCHESTER, N.Y.
UR-MAS	UNIV.OF ROCHESTER, DEP.MECHANICAL AND AEROSP.SCI., ROCHESTER, N.Y.
UNSY	UNIV.OF SIDNEY, SCHOOL OF PHYSICS, SIDNEY, AUSTRALIA
USC-ESL	UNIVERS.OF SOUTHERN CALIFORNIA, SCHOOL OF ENG., ELECTRONICS SCIENCE LAB.
USC-PH	UNIV.OF SOUTHERN CALIFORNIA, DEP.OF PHYSICS, CALIF.
UTEX-EERL	UNIV.OF TEXAS, EL.ENGINEERING RES.LAB., AUSTIN, TEXAS
UTEX-PPL	UNIV.OF TEXAS, PLASMA PHYSICS LABORATORY, AUSTIN, TEXAS
TEX-PPL	UNIVERSITY OF TEXAS, PLASMA PHYSICS LAB., AUSTIN, TEXAS

UTO	UNIV. OF TOKYO, DEP. OF PHYSICS, JAPAN
UVAR	UNIV. OF VIRGINIA, DEP. OF AEROSPACE ENG., CHARLOTTEVILLE
UTECH-MDL	UN. OF UTAH, SALT LAKE CITY, MICROW. DEPT. - PHYS. EL. LAB. DEPT. OF EL. ENGIN.
UVER	UNIVERSITY OF VERMONT, PHYSICAL DEPARTMENT
WIS	UNIVERSITY OF WISCONSIN, DEP. OF PHYS., MADISON, WISC.
AF ENAR GRANT	USAF UNDER GRANT, EUROPEAN OFF. OF AEROSPACE RESEARCH
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BRL	US ARMY MATERIALS COMMAND, BALLISTIC RES. LAB., ABERDEEN PROVING GROUND, MA.
MRC	US ARMY, MATHEMATICAL RESEARCH CENTER
DOFL	US ARMY MATERIALS COMMAND, DIAMOND LAB., WASHINGTON, D. C.
USAMIC-PSL	US ARMY MISSILE COMMAND, PHYSICS SCI. LAB., REDSTONE ARSENAL, ALABAMA
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CLB	US CUSTOMS LAB., BALTIMORE, MARYLAND
V	
VR	VACUUM PRODUCTS DIVISION, VACUUM ASSOCIATES PALO ALTO, CALIF.
W	
WANL	WESTINGHOUSE ASTRONUCLEAR LABORATORY, USA
WIS-CS	UNIVERSITY OF WISCONSIN, COMPUTER SCIENCES DEPARTMENT, MADISON, WIS.
WIS-FLE	UNIVERSITY OF WISCONSIN, DEP. OF ELECTRONIC ENGINEERING, MADISON, WIS.
WIS-PH	UNIVERSITY OF WISCONSIN, DEP. OF PHYSICS, MADISON, WISCONSIN
WUSTL	WASHINGTON UNIVERSITY, ST. LOUIS, MISSOURI
WEET	WESTINGHOUSE ELECTRICS CORP., NEW YORK
WERL	WESTINGHOUSE RESEARCH LABORATORY, PITTSBURGH, PA.
Y	
YALE	YALE UNIVERSITY, NEW HAVEN
Z	
ZAED	ZENTRALSTELLE F. ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT/M., GERMANY

THESAURUS OF PLASMA PHYSICS IN ALPHABETICAL ORDER

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