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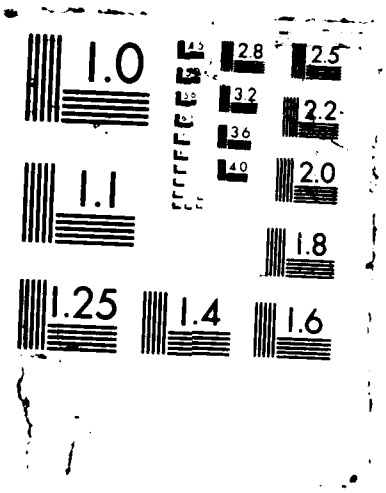
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7. AUTHOR(s)		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Defense Intelligence Agency Directorate for Scientific and Technical Intelligence		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE December 11, 1985 13. NUMBER OF PAGES 122
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

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17. Distribution Statement (of the abstract entered in Block 20, if different from report)

18. Supplementary Notes

19. KEY WORDS

Solid State Lasers, Liquid Lasers, Gas Lasers, Chemical Lasers, Laser Components, Nonlinear Optics, Spectroscopy of Laser Materials, Ultrashort Pulse Generation, Free Electron Lasers, Laser Theory, Laser Biological Effects, Laser Communications, Laser Beam Propagation, Adaptive Optics, Laser Computer Technology, Holography, Laser Chemical Effects, Laser Parameters, Laser Measurement Applications, Laser-Excited Optical Effects, Laser Spectroscopy, Laser Beam-Target Interaction, Laser Plasma

20. ABSTRACT

This is the Soviet Laser Bibliography for September-October 1984, and is No. 73 in a continuing series on Soviet laser developments. The coverage includes basic research on solid state, liquid, gas, and chemical lasers; components; nonlinear optics; spectroscopy of laser materials; ultrashort pulse generation; theoretical aspects of advanced lasers; and general laser theory.
Laser applications are listed under biological effects; communications systems; beam propagation; adaptive optics; computer technology; holography; laser-induced chemical reactions; measurement of laser parameters; laser measurement applications; laser-excited optical effects; laser spectroscopy; beam-target interaction; and plasma generation and diagnostics.

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INTRODUCTION

This bibliography has been compiled under an interagency agreement as a continuing effort to document current Soviet-bloc developments in the quantum electronics field. The period covered is September-October 1984, and includes all significant laser-related articles received by us in that interval. The bulk of the entries come from the approximately 30 periodicals which are known to publish the most significant findings in Soviet laser technology. Citations from the Soviet Reference Journals are also included. Laser items from the popular or semipopular press are generally omitted. All sources cited with no parenthetical notation are available at the Library of Congress. A parenthetical entry indicates the secondary source in which the citation was found as a bibliographic entry or abstract, but for which the original source is not currently available at the Library.

Section IA, Solid State Lasers, has a new subsection, 3h, InGaAsP under Semiconductor.

Since our computer is not now able to print between lines, superscripts and subscripts are indicated by (sup) and (sub).

We are now producing the entire bibliography on computer. To make our bibliography compatible with other data bases, we have converted the source abbreviations from our previous practice of those used in the Soviet Union to the letter codens generally used in our own government. Likewise, we have converted the affiliations designations from numbers to letter codens. The authors' affiliations are indicated in parentheses after the authors' names in the text. Empty parentheses indicate the affiliation was not given. A source abbreviations list, authors' affiliations list, and author index are included in the back of the bibliography.

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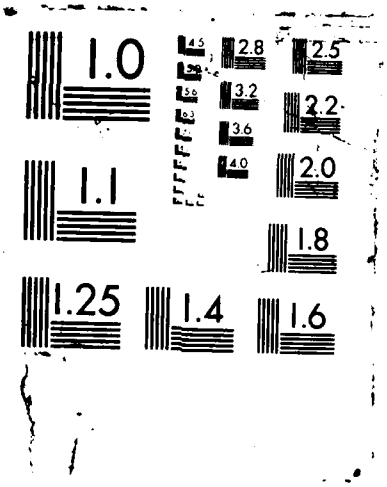
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IV. SOURCE ABBREVIATIONS

(Note: CTC = cover-to-cover translation available)

AENGA	Atomnaya energiya (CTC)
ARAKB	Archiwum akustyki (Warsaw)
AUONA	Acta Universitatis Palackianae Olomucensis. Facultas rerum naturalium (Olomouc)
AVMEB	Avtometriya (CTC)
BPPHA	Beitraege aus der Plasmaphysik
BWATA	Biuletyn Wojskowej akademii technicznej imeni Jaroslawa Dabrowskiego
CKCFA	Ceskoslovensky casopis pro fysiku
CMKGMMPR	Mezhdunarodnaya konferentsiya po generatsii megagaussnykh magnitnykh poley i rodstvennym eksperimentam
CMShSFTI	Mezhdunarodnaya shkola-seminar po fizike tyazhelykh ionov
CRABA	Bulgarska akademiya na naukite. Doklady
CRTED	Crystal Research and Technology (East Berlin) (formerly Krystal und Technik)
CSZGNTSS	Sovetsko-Zapadnogermanskiy nauchno-tekhnicheskiy seminar: Sovremennyye metody analiza v oblasti fiziki tverdogo tela
CVKPChLa	Vsesoyuznaya konferentsiya: Perestraivayemyye po chastote lazery
CVSFEPGa	Vsesoyuznoye soveshchaniye po fizike elektricheskogo proboya gazov
CVShSOSA	Vsesoyuznaya shkola-seminar: Opticheskiye spektry v adsorbtsii i katalize
CVSOSUIP	Vsesoyuznoye soveshchaniye: Opticheskiye skaniruyushchiye ustroystva i izmeritel'nyye pribory na ikh osnove
CVSTROSi	Vsesoyuznyy seminar po teorii i raschetu opticheskikh sistem

DANKA	Akademiya nauk SSSR. Doklady (CTC)
DAZRA	Akademiya nauk Azerbaydzhanskoy SSR. Doklady
DBLRA	Akademiya nauk BSSR. Doklady
DERUD	Deponirovannyye nauchnyye raboty (formerly: Deponirovannyye rukopisi. Bibliograficheskiy ukazatel'. Yestyesvennyye i tochnyye nauki, tekhnika)
EKVZA	Elektrosvyaz' (CTC)
ELKCA	Elektrotechnicky casopis
EOBMA	Elektronnaya obrabotka materialov (CTC)
ETFMB	Akademiya nauk Estonskoy SSR. Izvestiya. Fizika, matematika
FGRTA	Feingeraetetechnik
FIPLD	Fizika plazmy (Moskva, AN SSSR) (CTC)
FKOMA	Fizika i khimiya obrabotki materialov
FKSTD	Fizika i khimiya stekla (CTC)
FNTED	Fizika nizkikh temperatur (Kiyev) (CTC)
FTPPA	Fizika i tekhnika poluprovodnikov (CTC)
FTVTA	Fizika tverdogo tela (CTC)
GGASA	Geologiya i geofizika
HIRAA	Hiradastechnika (Budapest)
IAAFA	Akademiya nauk Armyanskoy SSR. Izvestiya. Fizika
IAFMA	Akademiya nauk Azerbaydzhanskoy SSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk
IANFA	Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya (CTC)
IFAOA	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana (CTC)
INFZA	Inzhenerno-fizicheskiy zhurnal (CTC)

IUZFA	Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IVNMA	Akademiya nauk SSSR. Izvestiya. Neorganicheskiye materialy (CTC)
IVUBA	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye (CTC)
IVUFA	Izvestiya vysshikh uchebnykh zavedeniy. Fizika (CTC)
IVUSA	Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye
IVUZB	Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika
IVYRA	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika (CTC)
IZSTA	Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk.
IZTEA	Izmeritel'naya tekhnika (CTC)
JMKOA	Jemna mechanika a optika
KHFID	Khimicheskaya fizika (CTC)
KFKKA	Kozponti fizikai kutato intezet kozlemenyek (Budapest)
KNLTA	Knizhnaya letopis'
KRISA	Kristallografiya (CTC)
KRSFA	Kratkiye soobshcheniya po fizike (CTC)
KVEKA	Kvantovaya elektronika (journal, Moskva) (CTC)
KVELA	Kvantovaya elektronika (sbornik, Kiyev)
LZFTA	Akademiya nauk Latviyskoy SSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk
MKETA	Mikroelektronika. AN SSSR (Moskva) (CTC)
MKMAD	Mekhanika kompozitnykh materialov (Riga)
MTRLB	Metrologiya

NACHA	Nachrichtentechnik-Elektronik (GDR)
OIPOB	Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki (now in two separate journals: OTIZD and POTZD)
OPAPB	Optica applicata (Poland)
OPMPA	Optiko-mekhanicheskaya promyshlennost' (CTC)
OPSPA	Optika i spektroskopiya (CTC)
OPTED	Optoelektronika i poluprovodnikovaya tekhnika (Kiyev)
OTIZD	Otkrytiya, izobreteniya (formerly included in OIPOB)
PFKMD	Poverkhnost'. Fizika, khimiya, mekhanika (Moskva)
PKMKA	Prikladnaya mekhanika (Kiyev)
POTZD	Promyshlennyye obraztsy, tovarnyye znaki (formerly included in OIPOB)
PRIRA	Priroda
PRSUB	Problemy i sistemy upravleniya (CTC)
PRTEA	Pribory i tekhnika eksperimenta (CTC)
PSSAB	Physica status solidi (A). Applied Research (GDR)
PSSBB	Physica status solidi (B). Basic Research (GDR)
PZTFD	Zhurnal tekhnicheskoy fiziki. Pis'ma (CTC)
RAELA	Radiotekhnika i elektronika (journal, Moskva)(CTC)
RATEA	Radiotekhnika (journal, Moskva) (CTC)
RRPQA	Revue Roumaine de Physique
RTKHA	Radiotekhnika (sbornik, Khar'kov)
RZASA	Referativnyy zhurnal. Astronomiya
RZFZA	Referativnyy zhurnal. Fizika
RZMKA	Referativnyy zhurnal. Mekhanika

RZRAB	Referativnyy zhurnal. Radiotekhnika
SCEFA	Studii si cercetari de fizica
STKRA	Steklo i keramika (CTC)
SVETA	Svetotekhnika
TEOPA	Tekhnologiya i organizatsiya proizvodstva
TKTEA	Tekhnika kino i televideniya
TMFZA	Teoreticheskaya i matematicheskaya fizika (CTC)
TVYTA	Teplofizika vysokikh temperatur (CTC)
UFNAA	Uspekhi fizicheskikh nauk (CTC)
UFZHA	Ukrainskiy fizicheskiy zhurnal (CTC)
VAFEA	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-energeticheskikh nauk
VANSA	Akademiya nauk SSSR. Vestnik (CTC)
VBMFA	Belorusskiy universitet. Vestnik. Seriya 1. Matematika, fizika, mekhanika
VBSFA	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
VMUFA	Moskovskiy universitet. Vestnik. fizika, astronomiya (CTC)
VODRE	Vodnyye resursy
ZAACA	Zeitschrift fuer anorganische und allgemeine chemie
ZAKHA	Zhurnal analiticheskoy khimii (CTC)
ZETFA	Zhurnal eksperimental'noy i teoreticheskoy fiziki (CTC)
ZFPRA	Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma (CTC)
ZNOKA	Zhurnal neorganicheskoy khimii (CTC)
ZNPFA	Zhurnal nauchnoy i prikladnoy fotografii i kinematografii (CTC)

ZPKHA	Zhurnal prikladnoy khimii
ZPMFA	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki (CTC)
ZPSBA	Zhurnal prikladnoy spektroskopii (CTC)
ZRBEA	Zarubezhnaya radioelektronika
ZTEFA	Zhurnal tekhnicheskoy fiziki (CTC)
ZVDLA	Zavodskaya laboratoriya (CTC)

V. AUTHOR AFFILIATIONS

AlGU
Altayskiy gos universitet
Altai State University, Barnaul

API
Altayskiy politekhnicheskiy institut
Altay Polytechnical Institute, Barnaul

AzGU
Azerbaydzhanskiy gosudarstvennyy universitet
Azerbaydzhan State University

BGU
Belorusskiy gos universitet
Belorussian State University

BPI
Belorusskiy politekhnicheskiy institut
Belorussian Polytechnical Institute, Minsk

CherkPI
Cherkasskiy pedagogicheskiy institut
Cherkassky Pedagogical Institute

ChGU
Chernovitskiy gosudarstvennyy universitet
Chernovitsy State University

ChPI
Chelyabinskiy politekhnicheskiy institut
Chelyabinsk Politechnical Institute

DGU
Dnepropetrovskiy gosudarstvennyy universitet
Dnepropetrovsk State University

FIAN
Fizicheskiy institut im Lebedeva AN SSSR
Physics Institute imeni Lebedev, Academy of Sciences USSR, Moscow

FTI
Fiziko-tekhnicheskiy institut im Ioffe AN SSSR
Physicotechnical Institute im Ioffe, Academy of Sciences USSR, Leningrad

GGU
Gor'kovskiy gos universitet
Gor'kov State University

GOI
Gosudarstvennyy opticheskiy institut im Vavilova
State Optical Institute imeni Vavilov, Leningrad

Gosstandart
Gosudarstvennyy komitet SSSR po standartam
USSR State Committee on Standards, Moscow

IAE
Institut atomnoy energii im Kurchatova
Institute of Atomic Energy imeni Kurchatov, Moscow

IAESOAN
Institut avtomatiki i elektrometrii SOAN
Institute of Automation and Electronic Measurements, Siberian Branch Academy of Sciences USSR

IAFAEst
Institut astrofiziki i fiziki atmosfery AN EstSSR
Institute of Astrophysics and Physics of the Atmosphere, Academy of Sciences Estonian SSR, Tallin

IBFiz
Institut biologicheskoy fiziki AN SSSR
Institut of Biological Physics, Academy of Sciences USSR, Pushchino

IEANBel
Institut elektroniki AN BSSR
Institute of Electronics, Academy of Sciences Belorussian SSR, Minsk

IEANUz
Institut elektroniki AN UzSSR
Institute of Electronics, Academy of Sciences Uzbek SSR, Tashkent

IEM
Institut eksperimental'noy meteorologii
Institute of Experimental meteorology, Obninsk

IEMAN
Institut eksperimental'noy mineralogii AN SSR
Institute of Experimental Mineralogy, Academy of Sciences USSR, Chernogolovka

IFA
Institut fiziki atmosfery AN SSSR
Institute of Atmospheric Physics, Academy of Sciences, USSR

IFANAz
Institut fiziki AN AzSSR
Institute of Physics, Academy of Sciences Azerbaydzhan SSR

IFANB
Institut fiziki AN BSSR
Institute of Physics, Academy of Sciences Belorussian SSR, Minsk

IFANEst
Institut fiziki AN EstSSR
Institute of Physics, Academy of Sciences Estonian SSR

IFANG
Institut fiziki AN GruzSSR
Institut of Physics, Academy of Sciences Georgian SSR, Tbilisi

IFANLi
Institut fiziki AN LitSSR
Institute of Physics, Academy of Sciences Lithuanian SSR

IFANUk
Institut fiziki AN UkrSSR
Institute of Physics, Academy of Sciences Ukrainian SSR, Kiev

IFI
Institut fizicheskikh issledovaniy AN ArmSSR
Institute of Physics Research, Academy of Sciences Armenian SSR

IFMANKi
Institut fiziki i matematiki AN KirgSSR
Institute of Physics and Mathematics, Academy of Sciences Kirghiz SSR, Frunze

IFPSOAN
Institut fiziki poluprovodnikov SOAN
Institute of Semiconductor Physics, Siberian Branch Academy of Sciences USSR, Novosibirsk

IFSOAN
Institut fiziki SOAN
Institute of Physics, Siberian Branch Academy of Sciences USSR

IFVE
Institut fiziki vysokikh energiy
Institute of High Energy Physics, Serpukhov

IFZ
Institut fiziki Zemli im Shmidta AN SSSR
Institute of Physics of the Earth imeni Shmidt, Academy of Sciences USSR

IGGSO
Institut geologii i geofiziki SOAN
Institute of Geology and Geophysics, Siberian Branch Academy of Sciences USSR, Novosibirsk

IGSOAN
Institut gidrodinamiki SOAN
Institute of Hydrodynamics, Siberian Branch Academy of Sciences USSR, Novosibirsk

IGU
Irkutskiy gos universitet
Irkutsk State University

IKAN
Institut kristallografii AN SSSR
Institute of Crystallography, Academy of Sciences USSR, Moscow

IKhF
Institut khimicheskoy fiziki AN SSSR
Institute of Physics of Chemistry, Academy of Sciences USSR, Chernogolovka

IKhKG
Institut khimicheskoy kinetiki i goreniya SOAN
Institute of Chemical Kinetics and Combustion, Siberian Branch Academy of Sciences USSR, Novosibirsk

IKI
  Institut kosmicheskikh issledovaniy AN SSSR
  Institute of Space Research, Academy of Sciences USSR
IMMGU
  Institut mekhaniki Moskovskogo GU
  Institute of Mechanics of Moscow State University
IMP
  Institut mekhaniki polimerov AN LatSSR
  Institute of polymer mechanics, Academy of Sciences Latvian SSR
INKh
  Institut neorganicheskoy khimii SOAN
  Institute of Inorganic Chemistry, Siberian Branch
    Academy of Sciences USSR
IOA
  Institut optiki atmosfery SOAN
  Institute of Atmospheric Optics, Siberian Branch
    Academy of Sciences USSR
IOF
  Institut obshchey fiziki AN SSSR
  Institute of General Physics, Academy of Sciences
    USSR, Moscow
IOKhK
  Institut organicheskoy khimii AN UkrSSR
  Institute of Organic Chemistry, Academy of Sciences
    Ukrainian SSR, Kiev
IONKh
  Institut obshchey i neorganicheskoy khimii
    im Kurnakova AN SSSR
  Institute of General and Inorganic Chemistry imeni
    Kurnakov, Academy of Sciences USSR, Moscow
IONKhANUk
  Institut obshchey i neorganicheskoy khimii AN UkrSSR
  Institute of General and Inorganic Chemistry, Academy
    of Sciences Ukrainian SSR, Kiev
IPANUk
  Institut poluprovodnikov AN UkrSSR
  Institute of Semiconductors, Academy of Sciences
    Ukrainian SSR, Kiev
IPF
  Institut prikladnoy fiziki AN SSSR
  Institute of Applied Physics, Academy of Sciences
    USSR, Gor'kiy
IPFANM
  Institut prikladnoy fiziki AN MSSR
  Institute of Applied Physics, Academy of Sciences
    Moldavian SSR, Kishinev
IPM
  Institut prikladnoy matematiki AN SSSR
  Institute of Applied Mathematics, Academy of Sciences
    USSR

IPMe
Institut problem mekhaniki AN SSSR
Institute of Problems of Mechanics, Academy of Sciences USSR, Moscow

IPTMOM
Institut problem tekhnologii mikroelektroniki i osobochistykh materialov AN SSSR
Institute for Problems of the Technology of Microelectronics and Extra Pure Materials, Academy of Sciences USSR, Chernogolovka

IRE
Institut radiotekhniki i elektroniki AN SSSR
Institute of Radioengineering and Electronics, Academy of Sciences USSR, Moscow

IRFEANArm
Institut radiofiziki i elektroniki AN ArmSSR
Institute of Radiophysics and Electronics, Academy of Sciences Armenian SSR, Ashtarak

IRFEANUk
Institut radiofiziki i elektroniki AN UkrSSR
Institute of Radiophysics and Electronics, Academy of Sciences Ukrainian SSR

ISAN
Institut spektroskopii AN SSSR
Institute of Spectroscopy, Academy of Sciences USSR

ISE
Institut sil'notochnoy elektroniki SOAN
Institute of High-Current Electronics, Siberian Branch Academy of Sciences USSR, Tomsk

ITeFUk
Institut teoreticheskoy fiziki AN UkrSSR
Institute of Theoretical Physics, Academy of Sciences Ukrainian SSR, Kiev

ITF
Institut teplofiziki SOAN
Institute of Thermophysics, Siberian Branch Academy of Sciences USSR, Novosibirsk

ITFL
Institut teoreticheskoy fiziki im Landau AN SSSR
Institute of Theoretical Physics imeni Landau, Academy of Sciences USSR, Chernogolovka

ITM
Institut tekhnicheskoy mekhaniki AN UkrSSR
Institute of Engineering Mechanics, Academy of Sciences Ukrainian SSR, Dnepropetrovsk

ITMO
Institut teplo- i massoobmena AN BSSR
Institute of Heat and Mass Exchange, Academy of Sciences Belorussian SSR

ITPM
Institut teoreticheskoy i prikladnoy mekhaniki SOAN
Institute of Theoretical and Applied Mechanics, Siberian Branch Academy of Sciences USSR, Novosibirsk

IVTAN
Institut vysokikh temperatur AN SSSR
Institute of High Temperatures, Academy of Sciences USSR

IYaFANUz
Institut yadernoy fiziki AN UzSSR
Institute of Nuclear Physics, Academy of Sciences Uzbek SSR, Ulugbek

KaGU
Kazanskiy gos universitet
Kazan' State University

KAI
Kazanskiy aviatsionnyy institut
Kazan' Aviation Institute

KarGU
Karagandinskiy GU
Karaganda State University

KazanPI
Kazanskiy pedagogicheskiy institut
Kazan Pedagogical Institute

KazFTI
Kazanskiy fiziko-tekhnicheskiy institut AN SSSR
Kazan' Physicotechnical Institute, Academy of Sciences USSR

KazKhTI
Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M. Kirov
Kazan Chemical Technology Institute imeni S.M. Kirov

KGU
Kiyevskiy gos universitet
Kiev State University

KhFTI
Khar'kovskiy fiziko-tekhnicheskiy institut
Khar'kov Physicotechnical Institute

KhGU
Khar'kovskiy gos universitet
Khar'kov State University

KiGU
Kishinveskiy gos universitet
Kishinev State University

KITsM
Krasnoyarskiy institut tsvetnykh metallov
Krasnoyarsk Institute of Non-ferrous Metals

KIYaI
Institut yadernykh issledovaniy AN UkrSSR
Institute of Nuclear Research, Academy of Sciences Ukrainian SSR, Kiev

KPIA
Kiyevskiy politekhnicheskiy institut`
Kiev Polytechnic Institute

KrasnodPI
Krasnodarskiy politekhnicheskiy institut
Krasnodar Polytechnic Institute

KTEI
Kiyevskiy torgovo-ekonomicheskiy institut
Kiev Commercial and Economic Institute

KubU
Kubanskiy gos universitet
Kuban' State University

KuyGU
Kuybyshevskiy gos universitet
Kuybyshev State University

KuzPI
Kuzbasskiy politekhnicheskiy institut
Kuznetsk Basin Polytechnic Institute, Kemerovo

LenMI
Leningradskiy mekhanicheskiy institut
Leningrad Mechanical Institute

LETI
Leningradskiy elektrotekhnicheskiy institut
Leningrad Electric Engineering Institute

LGU
Leningradskiy gos universitet
Leningrad State University

LITMO
Leningradskiy institut tochnoy mekhaniki i optiki
Leningrad Institute of Precision Mechanics and Optics

LPI
Leningradskiy politekhnicheskiy institut
Leningrad Polytechnic Institute

LTI
Leningradskiy tekhnologicheskiy institut
Leningrad Technological Institute

LvGU
L'vovskiy gos universitet
L'vov State University

MEI
Moskovskiy energeticheskiy institut
Moscow Power Engineering Institute

MEISF
Smolenskiy filial Moskovskogo energeticheskogo instituta
Smolensk Branch of the Moscow Power Engineering Institute

MFTI
Moskovskiy fiziko-tekhnicheskiy institut
Moscow Physicotechnical Institute

MGI
Morskoy gidrofizicheskiy institut AN UkrSSR
Marine Hydrophysical Institute, Academy of Sciences Ukrainian SSR, Sevastopol

MGMIVt
Vtoroy Moskovskiy meditsinskiy institut im Pirogova
Second Moscow Medical Institute imeni Pirogov

MGU
Moskovskiy gos universitet
Moscow State University

MIEM
Moskovskiy institut elektronnogo mashinostroyeniya
Moscow Institute of Electronic Machinery

MIFI
Moskovskiy inzhenerno-fizicheskiy institut
Moscow Engineering Physics Institute

MIKhM
Moskovskiy institut khimicheskogo mashinostroyeniya
Moscow Institute of Chemical Machine Building

MIREA
Moskovskiy institut radiotekhniki, elektroniki i avtomatiki
Moscow Institute of Radio Engineering, Electronics and Automation

MISIS
Moskovskiy institut stali i splavov
Moscow Institute of Steel and Alloys

MITKhT
Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova
Moscow Institute of Fine Chemical Technology imeni Lomonosov

MIU
Moskovskiy institut upravleniya im Ordzhonikidze
Moscow Institute of Control imeni Ordzhonikidze

NGU
Novosibirskiy gos universitet
Novosibirsk State University

NIIBIKhS
NII po biologicheskim ispytaniyam khimicheskikh soyedineniy
Scientific Research Institute for Biological Tests of Chemical Compounds, Kupavna, Moscow Region

NIIFKS
NII fiziki kondensirovannykh sred Yerevanskogo gos universiteta
Scientific Research Institute of the Physics of Condensed Media of Yerevan State University

NIIFL
NII fiziki pri Leningradskom gos universitete
Scientific Research Institute of Physics at Leningrad State University

NIIFRGU
NII fiziki Rostovskogo gos universiteta
Scientific Research Institute of Physics of Rostov State University

NIIFTT
NII fiziki tverdogo tela Latviyskogo GU
Scientific Research Institut of Solid State Physics of the Latvian State University, Riga

NIIGAiK
Novosibirskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii
Novosibirsk Institute for Engineers of Geodesy, Aerial Surveying and Cartography

NIIPFP
NII prikladnykh fizicheskikh problem pri Belorusskom gos universitete
Scientific Research Institute of Applied Physics Problems at Belorussian State University

NIISI
NII stabil'nykh izotopov
Scientific Research Institute of Stable Isotopes

NIIVN
NII vysokikh napryazheniy Tomskogo politekhnicheskogo instituta
Scientific Research Institute of High Voltage of the Tomsk Polytechnic Institute

NIIYaF
NII yadernoy fiziki pri Moskovskom gos universitete
Scientific Research Institute of Nuclear Physics at Moscow State University

NIIYaFEA
NII yadernoy fiziki, elektroniki i avtomatiki pri Tomskom politekhnicheskom institute
Scientific Research Institute of Nuclear Physics, Electronics and Automation at Tomsk Polytechnic Institute

NIIYaFT
NII yadernoy fiziki Tomskogo politekhnicheskoy instituta
Scientific Research Institute of Nuclear Physics of Tomsk Polytechnic Institute

NIOPIK
NII organicheskikh poluproduktov i krasiteley
Scientific Research Instituteof Organic Intermediates and Dyes, Moscow

NIRFI
NI radiofizicheskiy institut
Radiophysics Scientific Research Institute, Gor'kiy

NSNFMK
Nauchnyy sovet AN SSSR po probleme "Nerazrushayushchiye fizicheskiye metody kontrolya"
Scientific Council on Nondestructive Physical Methods of Control, Academy of Sciences USSR

NTORES
Nauchno-tekhnicheskoye obshchestvo radiotekhniki, elektroniki i svyazi im A.S. Popova
Scientific and Technical Society of Radio Engineering, Electronics and Communications imeni Popov, Moscow

OEISKF
Kiyevskiy filial Odesskogo elektrotekhnicheskogo instituta svyazi
Kiev Branch of the Odessa Electrotechnical Institute of Communications

OIYaI
Ob"yedinennyy institut yadernykh issledovaniy
Joint Institute of Nuclear Research, Dubna

ONSOptika
Ob"yedinenyy nauchnyy sovet AN SSSR po kompleksnoy probleme "Optika"
Joint Scientific Council on Optics, Academy of Sciences USSR

OPI
Odesskiy politekhnicheskiy institut
Odessa Polytechnic Institute

OZLET
Opytnyy zavod lazernoy i elektronnoy tekhniki pri Institute fiziki AN LitSSR
Pilot Plant for Laser and Electronic Engineering at the Institute of Physics, Academy of Sciences Lithuanian SSR, Vilnius

PGI
Polyarnyy geofizicheskiy institut Kol'skogo filiala AN SSSR
Polar Geophysical Institute, Kola Branch, Academy of Sciences USSR, Apatity

PMMI
Pervyy Moskovskiy meditsinskiy institut im Sechenova
First Moscow Medical Institut imeni Sechenov

SamGU
Samarkandskiy gos universitet
Samarkand State University

SFTI
Sibirskiy fiziko-tekhnicheskiy institut im Kuznetsova
Siberian Physicotechnical Institute imeni Kuznetsov, Tomsk

SGU
Saratovskiy gos universitet
Saratov State University

SibIZMIRAN
Sibirskiy institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln SOAN
Siberian Institute of Terrestrial Magnetism, the Ionosphere and Radiowave Propagation, Siberian Branch Academy of Sciences USSR, Irkutsk

SKBOptika
Spetsial'noye konstruktorskoye byuro nauchnogo priborostroyeniya "Optika" SOAN
"Optika" Special Design Bureau for Scientific Instrument Manufacture, Siberian Branch Academy of Sciences USSR

SKNTs
Severo-Kavkazskiy nauchnyy tsentr vysshey shkoly
North-Caucusus Scientific Center of Higher Learning, Rostov-on-Don

StavPI
Stavropol'skiy politekhnicheskiy institut
Stavropol' Polytechnic Institute

SZPI
Severo-zapadnyy zaochnyy politekhnicheskiy institut
Northwestern Correspondence Polytechnic Institute, Leningrad

TashGU
Tashkentskiy gos universitet
Tashkent State University

TGU
Tomskiy gos universitet
Tomsk State University

ToPI
Tomskiy politekhnicheskiy institut
Tomsk Polytechnic Institute

TsINTIkhimneftemash
Tsentral'nyy institut nauchno-tekhnicheskoy informatsii tekhniko-ekonomicheskikh issledovaniy po khimicheskomu i neftyanomu mashinostroyeniyu. Ministerstvo khimicheskogo i neftyanogo mashinostroyeniya
Central Institute of Scientific and Technical Information for Technical Economic Studies on Chemical and Petroleum Machine Building. Ministry of Chemical and Petroleum Machine Building, Moscow

TsNIITEIpriboro
TsNII informatsii i tekhniko-ekonomicheskikh issledovaniy priborostroyeniya, sredstv avtomatizatsii i sistem upravleniya
Central Scientific Research Institute of Information and Technical Economic Studies on Instrument Manufacture, Means of Automation, and Control Systems, Moscow

TsNIITEIzagotovok
TsNII informatsii i tekhniko-ekonomicheskikh issledovaniy Ministerstva zagatovok SSSR
Central Scientific Research Institute of Information and Technical Economic Studies for the Ministry of Procurement USSR, Moscow

TulPI
Tul'skiy politekhnicheskiy institut
Tula Polytechnic Institute

UDN
Universitet druzhby narodov im Lumumby
University of friendship Among Peoples imeni Lumumba, Moscow

UkrNIINTI
Ukrainskiy NII nauchno-tekhnicheskoy informatsii i tekhniko-ekonomicheskikh issledovaniy Gosplana UkrSSR
Ukrainian Scientific Research Institute of Scientific and Technical Information and of Technical Economic Studies for the State Plan of the Ukrainian SSR, Kiev

UkrNIIP
Ukrainskiy NII plastmass
Ukrainian Scientific Research Institute of Plastics, Donetsk

UrPI
Ural'skiy politekhnicheskiy institut
Ural Polytechnical Institute, Sverdlovsk

UzhGU
Uzhgorodskiy gos universitet
Uzhgorod State University

UzNIINTI
Uzbekskiy NII nauchno-tekhnicheskoy informatsii i tekhniko-ekonomicheskikh issledovaniy Gosplana UzSSR
Uzbek Scientific Research Institute of Scientific and Technical Information and of Technical Economic Studies for the State Plan of the Uzbek SSR, Tashkent

VAGO
Vsesoyuznoye astronomo-geodezicheskoye obshchestvo
All-Union Astronomic-Geodetic Society

VilGU
Vil'nyusskiy gos universitet
Vilnius State University

VINITI
Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii
All-Union Institute of Scientific and Technical Information, Moscow

VNIFTRI
VNII fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy
All-Union Scientific Research Institute of Physico-technical and Radiotechnical Measurements, Moscow

VNIIGBol
VNII glaznykh bolezney
All-Union Scientific Research Institute of Eye Diseases, Moscow

VNIIMono
VNII monokristallov, stsintillyatsionnykh materialov i osobo chistykh khimicheskikh veshchestv
All-Union Scientific Research Institute of Single Crystals, Scintillation Materials and Extra Pure Chemical Substances, Khar'kov

VNIIOFI
VNII optiko-fizicheskikh izmereniy
All-Union Scientific Research Institute of Optophysical Measurements, Moscow

VNIIT
Vsesoyuznyy nauchno-issledovatel'skiy institut televideniya
All-Union Scientific Research Institute of Television, Leningrad

VNIIZhT
VNII zheleznodorozhnogo transporta
All-Union Scientific Research Institute of Railroad Transportation, Moscow

VNISI
VNI proyektno-konstruktorskiy i tekhnologicheskiy svetotekhnicheskiy institut
All-Union Scientific Research, Planning, Design and Technical Institute of Illumination Engineering, Moscow

VPI
Voronezhskiy politekhnicheskiy institut
Voronezh Polytechnic Institute

YeGU
Yerevanskiy gos universitet
Yerevan State University

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☆U.S. Government Printing Office: 1986-618-803/40124

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