

Fundamental Results and the Prospects
for Soviet Biological Experiments in
Outer Space.

OSNOVNYYE ITOGI I PERSPEKTIVY SOVETSKIKH
BIOLOGICHESKIKH EKSPERIMENTOV V KOSMOSE,

1973, 90 pp.

*NASA TT F-14,822

Apr 73

RUSSIAN

Complete Special 15 pp

CSO: 8344/1378
24 Jan. 1974

Basic Medical Aspects of the Flight of the Soyuz 12,

Osnovnyye meditsinskiye aspekty poleta kosmicheskogo Korablya Soyuz 12 *51 pp*

Spec type B

Do not publish

Include reprographics, document may not be clipped.

Single spaced draft plus three (?)

T.D. 4 February 1974

1. *CSO: Fo 14/1533*
5 Mar 74
VOPROSY PODGOTOVKI PROMYSLOVYKH VOD DLYA
ZAVADNENIYA PLASTOV NA MORSKIKH MESTOROZHIDENI-
YALCH KASPIYSKOGO MORYA by MANUKYAN, S. Ye
2. VOPROSY PREDSTRASHCHENIYA ZAGRYAZNENIYA
MORGA PRI BURENII by Aliyer, N.A.
3. ~~OSNOVNYYE NAPRA NAUCHNO-ISSLEDOVATELSKIKH~~
~~ROBOT PO OKHRANE KASPIYSKOGO MORYA OE~~
ZAGRYAZNENIYE PRI RAZRABOTKE MORSKIKH NEFTEGAZOVYKH
MESTOROZHIDIY by Iskenderov, I.
4. SOSTOYANIYE I PERSPEKTIVY RAZVITIYA NEFTE
DOBYCHI NA KASPIYSKOM MORE by Babayer, N.B.



Il'ina, L. D.

Basic Propositions for a System of Automating Zone
Telephone Networks.

8 pp

OSNOVNYE POLOZHENIYA SISTEMY AVTOMATIZATSII
ZONNYKH TELEFONNYKH SETEY, Moscow, 1968.

pp 1-10.

JPRS 62036

Savkin, V. Ye.

Basic principles of operational art and tactics.
OSNOVNYE PRINSIPY OPERATIVNOGO ISKUSSTVA I TARTIKI,
1972

670 * 0870-00243.

per Lt. Col. Doyle 17 May 73

1-1-74

BASIC PRINCIPLES OF MINOR STRATEGY AND TACTICS
(CHAPTERS 1 AND 2)
SAVKEN, V YE
UP: OSNOVNYE PRINTSIPY OPERATIVNOGO ISKUSSTVA I TAKTIKI, 1972, PP. 68-354

Process in as

MIT 74-24-0934

Slevich, Solomon Borisovich

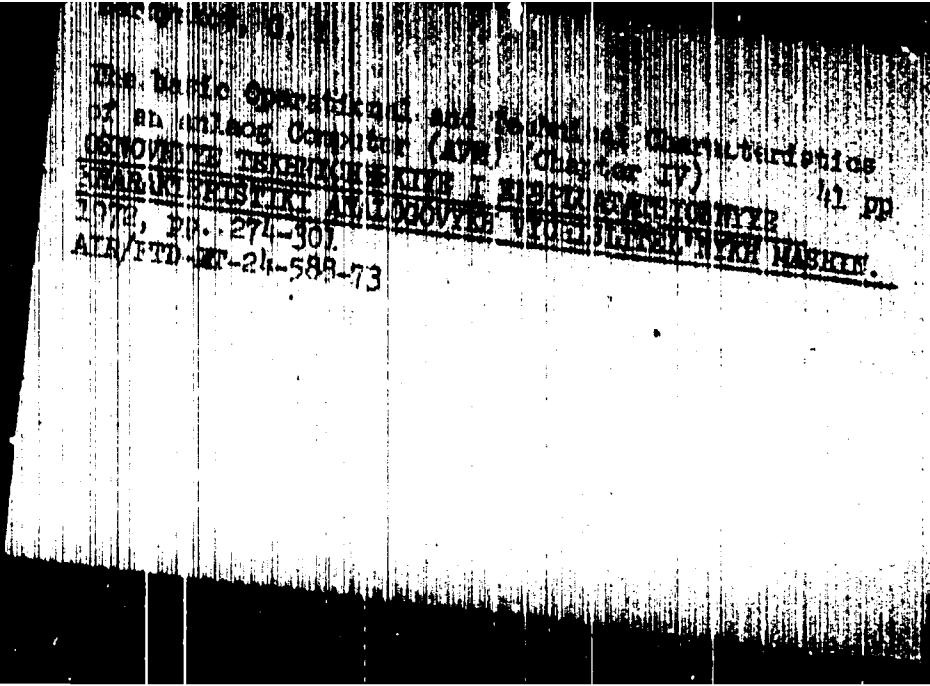
Basic Problems of Antarctica Exploitation.

30 pp

OSNOVNYE PROBLEMY OSVOYENIYA ANTARKTIKI.

Leningrad, June 73, pp 1-32.

JPRS 62180



Basic relationship between wave optical
characteristics
OSNOVNYE ZAVISIMOSTI MIZH DU GIDROOPTICHESKI-
KIPRI KHARAKTERISTIKAMI SVETA
VLEOTICHESKIYI ISSLEDOVANIYA, IN: OPTIKA
OKEANA I ATMOSFERI, 1972, pp. 5-21. (Nauka
Press)
NASA TT F 14,775

Vaniurikhin, G.I.
Chap: Systems with Variable Structure 5 pp

OSNOVY AVTOMATICHESKOGO UPRAVLENIA
1972 pp 294-298

CIA-(-7836

Vaniurikhin, G.I.

Чап. XI. Pulsed and Digital Automatic
Systems 20 pp

ОСНОВЫ АВТОМАТИЧЕСКОГО УПРАВЛЕНИЯ, 1972
PP 299-323

CIA-X-7878

Yablonskaya, E.A. 1971
Food chains of populations in the southern seas of the
U.S.S.R. (Pishchevye tsipi naselenia iuzhnykh morei SSSR)
Genovy biologicheskoy produktivnosti okeana i ee ispol'zovanie
(K.V. Beklemishev, chief editor), Akad. Nauk SSSR, Otdelenie
obshchey biologii, izd. "Nauka," Moscow, 295p.: 12-31.
In Russian.

Original Article Checked. *ML*

Oredovskii, S.G.

1971

The role of trace elements in marine primary production
(O roli mikroelementov v protsesse formirovaniya pervichnoy
produktivnosti morskikh vod)
Osnovy biologicheskoy produktivnosti okeana i ee ispol'zovanie
(K.V. Muklenishev, chief editor), Akad. Nauk SSSR, Otdelenie
obshchey biologii, izd. "Nauka," Moscow, 295p.: 32-36.
In Russian.

Transl. by IPST for NMFS, Dec. 1972, 5p., typescript.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked *MR*

Heinrich (Heinrich), A.K.
Production cycles in the marine pelagic environment 1971
(Produktionnye tsikly v morskoy pelagialii)
(Obshche biologicheskoi produktivnosti okeana i ee ispol'zovanie
(K.V. Bakhmishhev, chief editor). Akad. Nauk SSSR, Otdelenie
obshchei biologii, izd. "Nauka," Moscow, 295p. 43-63.
In Russian.

Transl. by IPST for IMEM, Jan. 1973, 24p., typescript.

Avail. on loan - NMFS, Wash., D.C.

Original Article Checked **NK**

Voronina, N.M.

Annual cycle of plankton in the Antarctic (Godovoy tsikl planktona v Antarktike) 1971
Osnovy biologicheskoy produktivnosti okeana i ee ispol'zovanie
(K.V. Paklemishev, chief editor), Akad. Nauk SSSR, Otdelenie
obshchey biologii, iss. "Nauka," Moscow, 295p.: 64-71.
In Russian.

Transl. by IPST for NMFS, Dec. 1972, 10p., typescript.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked *MC*

Philippine, Iu.A.

The distribution of squids in the pelagic waters of the world ocean (O raspredelenii kal'marov v pelagialii Mirovogo okeana) 1971
Zhurny biologicheskoy produktivnosti okeana i ee ispol'zovanie (K.V. Buziklavishv, chief editor), Akad. Nauk SSSR, Otdelenie obshchey biologii, izd. "Nauka," Moscow, 295p.: 89-101.
In Russian.

Transl. by IPST for NMFS, Jan. 1973, 15p., typescript.

Avail on Loan - NMFS, Wash., D.C.

Original Article Checked.....

Parin, N.V.

1971

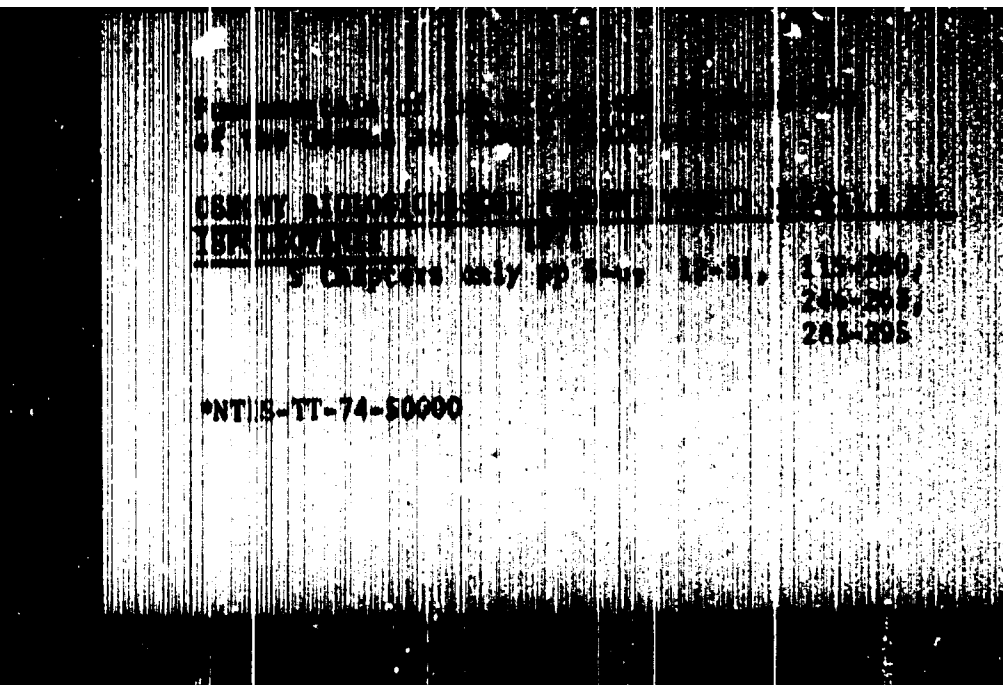
Main trophic relations of pelagic fishes in the open ocean
(Glavnye troficheskie svyazi pelagicheskikh ryb v otkrytom
okeane)

Derivatsiya biologicheskoy produktivnosti okeana i ee ispol'zovanie
(K.V. Beklemishev, chief editor). Akad. Nauk SSSR, Otdelenie
obshchey biologii, izd. "Nauka," Moscow, 295p.: 102-114.
In Russian.

Transl. by IFST for NMFS, Dec. 1972, 13p., typescript.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked.....



DEVICES BASED ON THERMUELECTRICAL PHENOMENA

GORODETSKIY, A. LANGUAGE-RU COUNTRY-UR

complete 23pp

OSNOVY FIZ. POLYPROVOD. I POLYPROVOD. PRIB.,
~~1966~~, 1966, CH 16, 315-*326*

FSTC-HT-23-0045-74

Shcherbina, V.V.

Principles of Geochemistry

OSNOVY GEOKHIMIYA 1972, 296 pp

*NTIS-TT-74-53107

Kolosnikova, I. K.

Fundamentals of Hydroacoustics and Hydroacoustic
Stations.

91 pp

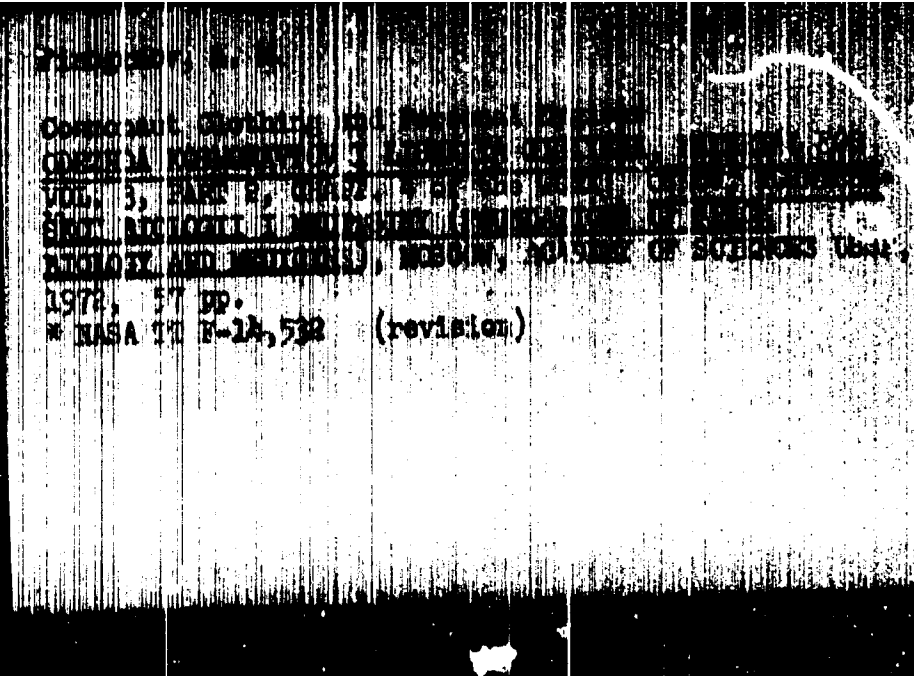
OSNOVY GIDROAKUSTIKI I GIDROAKUSTICHESKIYE
STANTSII, Leningrad, 1970, pp 224-314.

JPRS 6:2027

... ..
... ..

... ..
8-12, 16-20, 24-26, 28-31, 33-35, 37, 39, 41, 43-45,
48-49.

Special type B
Do not publish
Translator's draft plus one copy.
Graphics may be pasted on .off.



Popov, I. G.
Food and Water Supply
STRANGE I RESEARCHER, Material for Vol. 1,
part 2, Chapter 2, of the work, ISSAY: KOMMUNIKATSIY
BIOLAZH I MEDITSINY, USSR Academy of Sciences,
commission of exploration and use of outer space,
Moscow, 1973, pp. 1-111
NASA TT F-15,161

Barov, V. M.
Planets of the Earth, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto
PLANETS OF THE EARTH, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO
for vol. 1, Part 2, Biological Environment
Kosmos (USSR BIOLOGICAL ENVIRONMENT, Foundations of Space
Biology and Medicine), Moscow, Acad. of Sciences USSR,
Commission of the Use and Exploration of Outer Space,
1973, 138 pp
NASA IT P-15,198

Volevich, V. G.

Medical aspects of the safe descent and landing of a
spacecraft on the earth and other celestial bodies.
МЕДИЦИНСКИЕ АСПЕКТЫ БЕЗОПАСНОГО СПУСКА И ПОСАДКИ
КОСМИЧЕСКОГО КОРАБЛЯ НА ЗЕМЛЮ И ДРУГИЕ НЕБЕСНЫЕ ТЕЛА, МОСКВА,
ACADEMY OF SCIENCES USSR, Vol. 3, Part 4, Chap 3 of
ОСНОВЫ КОСМОБИОЛОГИИ И МЕДИЦИНЫ (FOUNDATIONS
OF SPACE BIOLOGY AND MEDICINE), 1973, PP 40
ISSN: 0013-788X

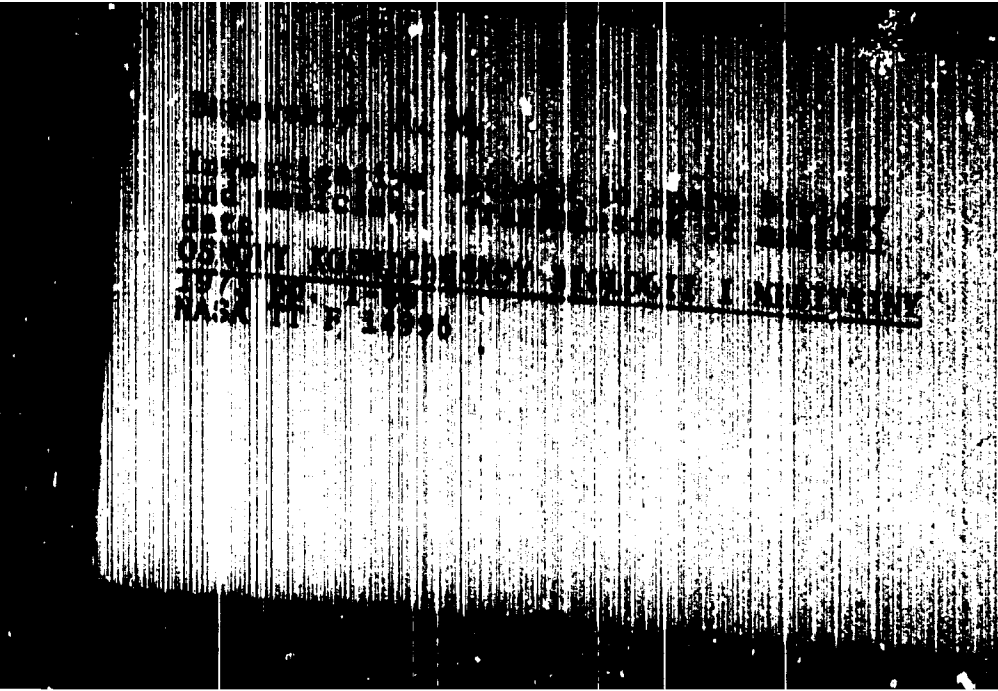
Chernyakov, I. N.

Safety of life and health of crews of
spacecraft and space stations in emergency
situations

OSNOVY KOSMICHESKOY BIOLOGII I MEDITSINY 1971

pp. 1-64

NASA TT F 14997





Shepelev, Ye Ya

Biological life support systems

OSNOVY KOSMICH. BIOL. I MED. 1973

pp. 1-115

NASA TT F 15005

Kulikov, K.A.

Principles of Lunar Astronomy

OSNOVY LUNNOY ASTROMETRII 1972

*DMAAC 16 Oct 73

Sarycheva, T.S.

Fundamentals of Paleontology Vol 7, Bryozoa

OSNOVY PALEONTOLOGII Vol 7 1960

NTIS-TT-67-59076/02

PRINCIPLES OF PYROTECHNICS

SHILOVSKIY A A LANGUAGE--RU COUNTRY--UR

OSNOVY PIROTEKHNIKI

"MASHINOSTROYENIYE" MOSCOW 1973 320 PP

FSTC-HT-23-0380-75

Principles of Legal Knowledge, 10 pp.
OSNOVY PRAVOVYKH ZNANIY, Moscow, 1973, pp 1,
2, 3-5, 420-424.
JPRS 59447

Jul 73

Sumarokovym, P. I.

Book Describes Principles of Legal Knowledge.

30 pp

OSNOVI PRAVOVYKH ZNANIY, Moscow, pp 2, 148-160,
187-203.

JPRS 59546

Miasnikov, A.A.

Principles of Coal Mine Ventilation Planning

OSNOVY PROEKTIROVANIYA VENTILIATSII UGOLNYKH
SHAKHT 1971, 231 pp

*NTIS-TT-74-52040

Dulov, A. V.

Fundamentals of Psychological Analysis in
Preliminary Investigation.
136 pp

OSNOVI PSIKHOLOGICHESKOGO ANALIZA NA PREDVARI-
TEL'NOM SLEDSTVII, Moscow, 1973, 168 pp.
PRS 6:685

Brekhovskikh, S.M.

Principles of the Radiation Study of Glass
and Ceramic Materials 234 pp

OSNOVY RADIATSIONNOGO MATERIALOVEDENIYA
STEKLA I KERAMIKI 1971 256 pp

FSTC-HT-23-1744-73

FINKEL-SHTEIN, M. I.
//OSNOVY RADILOKATSII//
--/--/1973, V----, N----, pp0041-0053,
Some Characteristics of a Pulsed PPI Radar
Signal, 9 pp
CIA-X-7922

##

FINKEL-SHTEIN, M.I.
//OSNOVY RADIOLOKATSII//
--/--/1973,V----,N----,pp 0094-0319
Coherent-Pulse Methods of Moving Target
Selection, 18 pp
CIA-X-7923

##

REQ TR CHECK 25-06-73 T910

THE PRINCIPLES OF ROCKET TECHNOLOGY
FRIDENSON, YE.S.

UR: OSNOVY RAKETNOY TEKHNIKI, 1973,
pp. 1-207

Process in air

MT 73-24-0836

RUSSIAN

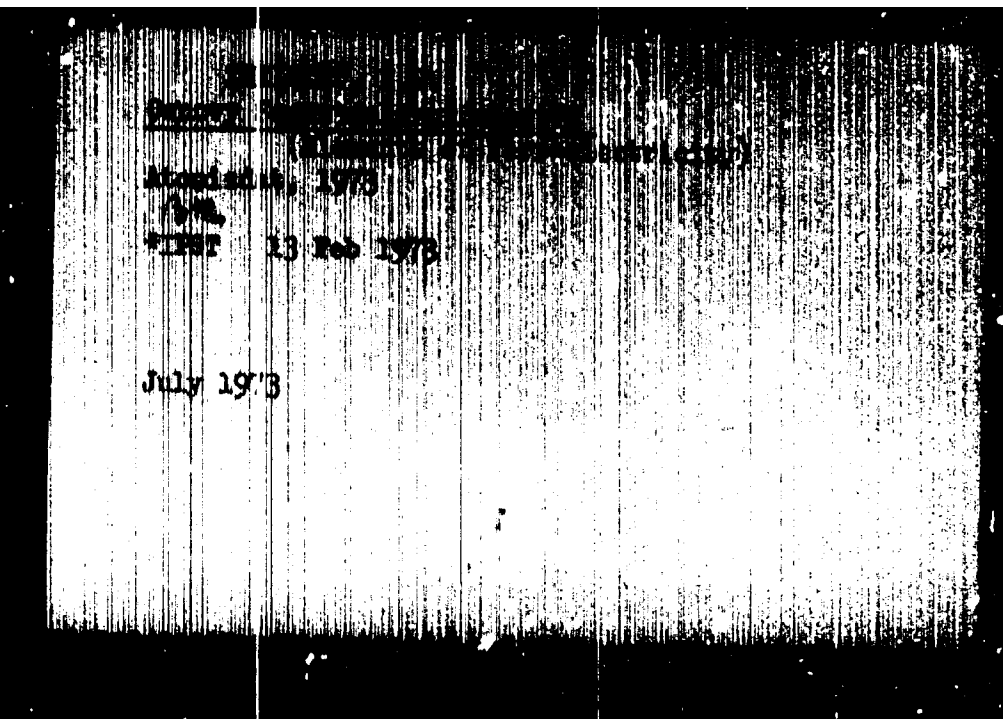
*complete
special diff*

CSO: 8344/0836
31 Oct 74

Fundamentals of design and construction of magnetrons,
by D. Samsanov.

Moscow?, Osnovy rauchata i konstruirovaniya magnetronov
1974, pp 3-4, & 315-327.

Spec type B
Do not publish
Single spaced draft plus one copy.



Russian

*complete
confidential 14 pp*

CSO: 8344/0398
28 August 1974

Basics of Synchronization for Discrete Signal
Reception, by S.S. Sviridenko

Moscow, Osnovy Sinkronizatsii pri prieme dis-
kretnikh signalov, 1974, pp 4-8, pp 133-143

Special Type B
Do not publish
Single spaced draft plus one

Lepeshkin, A. I.

Sov. et. Military Legislation.
6 pp

OSNOVI SOVETSKOGO VOYENNOGO ZAKONODATEL'STVA.
Moscow, 1973. pp 1, 2, 268-272
JPRS 57409

Lepeshkin, A. I.

Text on Military Law for Cadets, 58 pp.
OSNOVY SOVETSKOGO VOYENNOGO ZAKONODATEL'STVO,
Moscow, 1973, pp 48-63, 64-79, 115-128, 196-
212.
JPRS 59604

Aug 73

REF ID: A66974

BASES OF MODERN TECHNIQUES OF CONTROL
(SELECTED PARTS)

LOSKURCV, V-I

UR: OSNOVY SOVREMENNOY TEKHNIKI UPRAVLENIYA,

1973, pp. 52-53; 82-104; 154-155; 223-225;

270-275/13/178

Baklanov, V.N. 1964
Principles of comparative anatomy of invertebrates, 1.
Pronomorphology (Osnovy sravnitel'noi anatomii bespozvonochnykh, 1)
1st. "Mashin." 3rd ed., Moscow. In Russian.

Transl. by Oliver J. Boyd, 1969, publ. by the University of
Chicago Press, 490p., mapog.

Avail. on loan - NMPS, Wash., D.C.

Original Article Checked. MR

Doklady, V.N. 1964
Principles of comparative anatomy of invertebrates, 2.
Organology (Osnovy sravitel'noy anatomii bezpozvonochnykh, 2)
Izd. "Mir," 3rd ed., Moscow. In Russian.

Transl. by Oliver & Boyd, 1969. publ. by the University of
Chicago Press, 529p., illus.

Avail. on Loan - NMFS, Wash., D.C.

Original Article Checked *MR*

Fortushenko, A.D.

Fundamentals of the Technical Designing of a
Communications Systems Using Artificial Earth
Satellites.

OSNOVI tekhnicheskogo PROYEKTIROVANIYA SISTEM SVYAZI

CHEREK ISZ, 1970, 332 pp

*NASA TP F 794

may 73

RUSSIAN

*Complete
Special
21 pp*

OSO: 8344/0087
18 July 1974

Fundamentals of Digital Data Transmission
Technology, by V.I. Shlyapoberskiy

Moscow, Osnovy Tekhniki Peredachi Diskretnykh
Soobshcheniy, 1973, pp 4-7, 476-480

Special type B
Do not publish
Single spaced draft plus one

REQ IN CHECK

20-5-74

TR13

FUNDAMENTALS OF RADIO TELEMETRY THEORY.

MANOVSEV, A P

UR: OSNOVY TEORII RADIOTELEMETRII

1973, 592 pp

On Process as

FTD-HC-23-2695-74

Doronin, Yu.P.

Basics of Thermodynamics in the Atmosphere and
the Ocean

OSNOVY TERMODINAMIKI ATMOSFERY I OKEANA 1973 92 pp.

*NTIS-TT-74-55028

3-Oct-73

Unc1 (JPRS--60000) Characteristics of the electrical
part of atomic-electric plants. FEL'DMAN, M.L.;
CHERNOVETS, A.K. 11 Sep 1973. Translation of
Osobennosti elektricheskoi chasti atomnykh
elektrostantsii, Izdatel'stvo Energiya, Leningrad, 1972.
202p. NTIS.

18E nuclear power plants; 18I reactor engineering;
translations
NN-80 NP NSA

THE STRATEGY OF THE USA AND USSR

LANGUAGE-GE COUNTRY-UR

OSTERREICHISCHE MILITARISCHE ZEITSCHRIFT VOL
10 NO 1 1972 PP 10-14

FSTC-HT-23-0453-74

MILITARY SCIENCE-SCIENCE OF WARFARE AND STRAT
EGY

KUSLOW SWJATUSL LANGUAGE-GE COUNTRY-UR

OSTERREICHISCHE MILITARISCHE ZEITSCHRIFT NO.
27/1973 PP UB-93

FSTC-HT-23-1806-73

THE SOVIET AND THE WESTERN MILITARY SCIENCE

KIRSCHIN J

LANGUAGE-GE COUNTRY-UR

OSTERREICHISCHE MILITARISCHE ZEITSCHRIFT NO.
2/1973 PP 93-96

FSTC-HT-23-1805-73

SOVIET UNION AREA OF DEFENSE AND TROOP STATIO
NING

LANGUAGE-GE COUNTRY-UR

OSTERR MILIT ZEITSCHRIFT NO 4 1973 PP 314-317

FSTC-HT-23-0550-74

Thomaser, Ferdinand

OSTERREICHISCHE WASSERWIRTSCHAFT, Vol 16, No 7&8
1964, pp 159-163

* NTIS-TT-74-5314.1

Gilberg, Trond

Ceausescu's 'Little Cultural Revolution',
12 pp.

GOVERNMENT USE ONLY

OSTEUROPA, West Berlin, No 10, Oct 72,

PP 717-728.

JPRS/L 4582

Jul 73

GERMAN

*complete
Special
draft*

SSO: 5000/2070
14 May 1974

1. Peaceful Coexistence-A Soviet View, by Mikhail S. Voslenskiy
2. Class Struggle, Cold War, Ratio of Forces, Coexistence by Mikhail S. Voslenskiy,
3. Peaceful Coexistence-A German View, by Klaus Mennert

Stuttgart, Ostauropa, 1) Nov 73, pp 848-855
2&3) Apr 74, pp 269-269 & pp 270-274

Special type B

Do not publish

Single spaced draft plus one

Deutsche Gesellschaft fuer Osteuropakunde

Van Brabant, Jozef M.

Problems of Bilateralism in Intra-CEMA
Trade Reviewed, 21 pp.

GOVERNMENT USE ONLY

OSTEUROPA-WIRTSCHAFT, Cologne, Jun 73, pp 3-22.

JPRS/L 71861

Apr 74

Role of GDR in CEMA Integration Analyzed, 11 pp
GOVERNMENT USE ONLY
OSTEUROPA-WIRTSCHAFT, Cologne, Jun 73, pp 23-
32.
JPRS/L 4861

Apr 74

Parlow, Wolf von Wedel

Marxist Research on Goals of Socialist
Industrial Firm Reviewed, 29 pp.

GOVERNMENT USE ONLY

OSTEUROPA WIRTSCHAFT, Cologne, Dec 73, pp 177-
201.

JPRS/L 4858

Mar 74

RUSSIAN

*complete
Special 19 pp*

000: 8 44/0552
30 Sep 74

Departmental standard. Unified system of electronic computers. Parts indexing system.

Otbraslevoe standart. Yedinaya sistema elektronnykh vychislitel'nykh mashin. Sistema indeksatsii izdeliy,
12 December 1969, 34 pages.

Spec type D
Do not publish
Single spaced draft plus one copy typed on (RUO) paper please.

Soviet Liberating Mission in World War II,
by A. A. Grechko, 14 pp.
RUSSIAN, bk, Osvoboditel'naya Misliya Sovetskikh
Vooruzhennykh Sili vo Vtoroy Mirovoy Voynе, Moscow,
1971, pp 1, 2, 515-517, 3-12.
JPRS 59091

May 73

Book Describes World War II Belorussian Operation.
13 pp
OSVOBODZENIYE BELORUSSII 1944, Moscow, Moscow,
1974, pp 3, 4, 7070799, 5-14.
JPRS 63387

Yershov, A. G.

Book on Liberation of Donbas.

10 pp

OSVOZHDENIYE DONBASSA: BOYENNO-ISTORICHESKIY
OCHERK, Moscow, 1973, pp 1-2, 3-6, 227-239- 240.

JPRS 52207

Skuridin, C.A., Editor

Mastery of Outer Space in the USSR 7-1967

OSVOYENIYE KOSMICHESKOGO
PRESTRANSTVA V SSSR 1957-1967, 1971, 554 pp

*NTIS*TT-74-53010

NASA*TT-F-773

Petrov, G.I. Editor

Conquest of Outer Space in the USSR

488 pp
444 pp

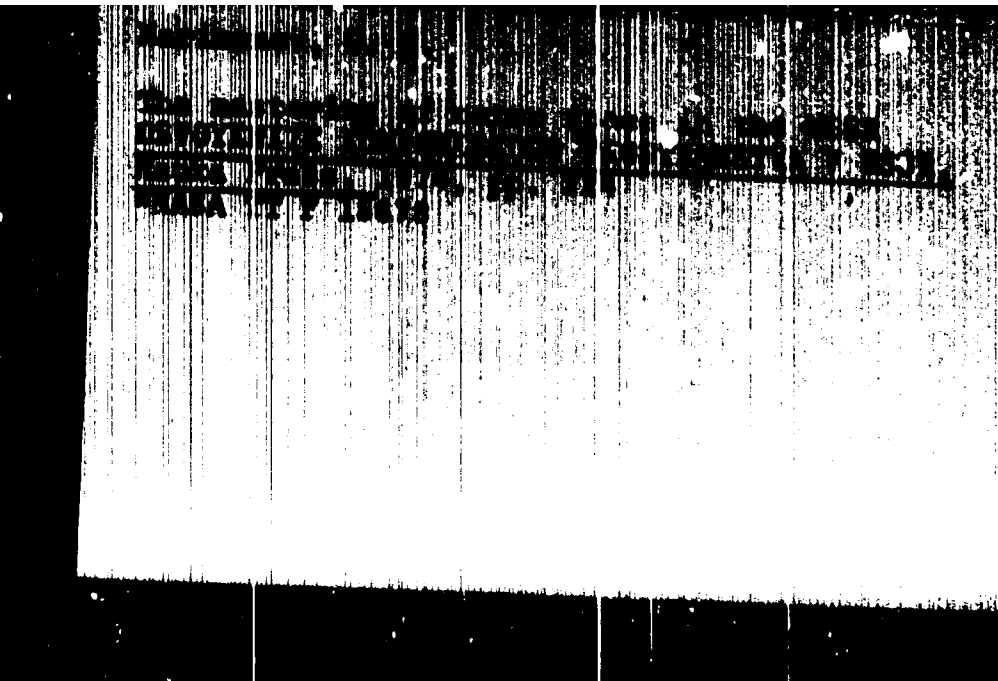
OSVOYENIYE KOSMICHESKOGO PROSTRANSTVA V SSSR
1967-1970

1971

NTIS-TT-72-52005

NASA TT F-725

Available Ly/Ser



Dmitriyev, A. Yu.

From Spacehips to orbiting stations. Second Edition.
134 pp

ОТ КОСМИЧЕСКИХ КОРАБЛЕЙ - К ОРБИТАЛЬНЫМ СТАНЦИЯМ
2 Edition, 1971, pp 1-113

NASA TT F 812-73

Uncl (JPRS--60564) From scientific research to the atomic industry. PETROS'YANTS, A.M. (JOINT PUBLICATIONS RESEARCH SERVICE, WASHINGTON, D.C. (USA)). 17-Jan-74
19 Nov 1973. Translated from pp 31-74; 81-203; 211-219; 270-324 of Atomizdat, Moscow, 1972. 224p. NTIS.

18A fusion devices (thermonuclear); 18D isotopes; 20G particle accelerators; 20H physics (particle); 20I physics (plasma); 18G radioactive wastes; 18I reactor engineering; 18L reactors-power; 18M reactors-research; translations
PW-2 NP NSA

revision

Samsonov, A. M.

On the History of the Third Guards Mechanized
Corps.

7 pp

OT VOLGI DO BALTIKI. Moscow, 1973, pp 1, 5-7,
8-10, 543-544.

JPRS 61250

Kelko, M. F.

Advantages of using specific solutions of the
bessel equations for solving wave equations.
OTBGR I. PEREDACHA INFORMATSII, n. 25, 1970,
p. 126-130
NTC 73-11572-12A

Agency: Air Force

P.O. #: ARL 72-0001 72-018

9144/0654

2 July 72

Title: Analysis of certain nonstationary processes by using Wiener functionals.

Author: Marchenko, B.G.

Source: Otkr I Peredacha Informatsii, No.31
1972, pages 3-12

Language: Russian to English.

Special Instructions: Please translate and
type one copy. *α*

Vinogradov, B. V.

Report on the USSR Program for Studying Plant, Soil and
Ground use in Key Sectors.

OTCHET PO PROGRAMME SSSR LAUCHENIYU RASTETEL'NOSTI,
POCHYY I ISPOL'ZOVANIYA ZEMEL'NO KLYUCHEVYKH UCHASTKAKH

Feb. 12-17, 1973, 6 pp.

WASA TT F 14, 967

Natroskvili, Georgiy

News Reports on Georgian SSR False.

7 pp

OTCHIZNA, Moscow, No 12, 1973, pp 9-10.

JPRS 61476

Kunin, I.A.

The theory of an elastic medium with micro-
structure. 9 pp.

AN SSSR. OTDELENIYE MEKHANIKI I PROTSESSOV
UPRAVLENIYA. PROCHNOST' I PLASTICHNOST', IZD-
VO "NAUKA," MOSCOW, 1971, pp. 65-70.
AIR/PTD/MT-24-1568-72

may 73

Vasiliev, Al. 1971
The Black Sea will disclose new secrets (Marine society
formed to study Black Sea)
Obezhestven Front, Sofia, July 2: 2. In Bulgarian.

Trans. by JPRS, Oct. 1971, pp. 8-10 in 29p. "Transl. on
Eastern Europe Scientific Affairs No. 197." 3p., processed.
Avail. NTIS as JPRS Transl. No. 50328, price \$5.00.

Avail. on loan - NHFS, Wash., D.C.

Original Article Checked. *[Signature]*