

VYCHISLITEL'NYE SISTEMY
(Computer Elements and Systems)
Translation begins with 1962
Lag time: 1-2 years
Order from: National Technical Information
Service
5285 Port Royal Road
Springfield, Virginia 22151
\$ 3.00 single issues

Russ

Computer Engineering, by S. A. Lebedev, 150 pp.

RUSSIAN, bk, Vychislitel'naya tekhnika,
USSR Acad. of Sci, 1958.

*Pergamon Inst

May 59

(DC-2392)

Methods of Selecting the Required Word From the Dictionary, by I. E. Korolev, 3 pp.

RUSSIAN, par, Vychislitel'naya Tekhnika, Isdatel'stvo Akad. Nauk SSSR, Moscow, 1958, pp 116-118.

US JPRS 487-D

Sci - Misc

~~2 Dec 58~~

Jan 59

S. F. 1-1-59

79,964

Basic Terminology and Definitions in the
Technique of Automatic Digital Machines, by
E. I. Mamonov, 21 pp.

RUSSIAN, per, Vychislitel'naya Tekh, 1958,
pp 140-150.

AEC MF 168

Sci - Engr

Jan 59

79,573

Problems of the Calculation of the Speed of
Operation of Equipment and the Evaluation of
the Productivity of Digital Computing Machines,
by Ye. I. Mamonov.
RUSSIAN, per, ~~Engineering-Electronics~~
~~Vychislitel'naya Tekhnika~~, No 2, 1961, pp 8-20.
*FTD-TT-64-518

Sci - Math & Data Proc
May 64

Design for Extrapolating Discrete Servosystems,
by L. T. Kazin.
RUSSIAN, per, Vychisl Tekh, No 2, 1961, pp 39-50.
*FTD-MT-65-228

Sci - Phys
Jun 65

TRANSISTORIZED CONTROL SYSTEMS FOR AN INFORMATION
STORAGE DEVICE USING PIEZOELECTRIC SUBSTANCES,
BY YE. I. MAMONOV, YU. M. KOVAL'SKIY,
16 PP.

RUSSIAN, PER, VYCHISLITEL'NAYA TEKHNIKA
(MOSKOVSKIY INZHENERNO-FIZICHESKIY INSTITUT),
NO 3, 1962, PP 112-122.

JPRS 17323

SCI - PHYS

JAN 63

220,574

Computer Techniques, by A. M. Oranskiy, 193 pp.
RUSSIAN, bk, Vychislitel'naya Tekhnika, 1964.
P100072968-V
FTD-HT-23-644-67

Sci/Electr & Electr Engr
May 68

356,784

Table of Contents; Translations on
pp 88-94. Computer Technology in Planning:
Practical and Theoretical Questions, by
Nikolai Ivanovich Kovalev, 21 pp.
RUSSIAN, bk, Vychislitel'naya Tekhnika v
Planirovanii: Voprosy Teorii i Praktiki,
1964.
CIA/FDD X-5660

Sci
Jul 65

284,339

Computer Engineering As Applied to Statistical Investigations and Computation of Automatic Control Systems, by V. V. Solodovnikov, Yu. S. Matveyev, et al, 163 pp. RUSSIAN, bk, Vychislitel'naya Tekhnika v Primenenii dlya Statisticheskikh Ispytaniy i Raschetov Sistem Avtomaticheskogo Upravleniya, Moscow, 1963, 165 pp. ACSIT-4633 ID 2204015164

Sci - M & D Proc

Jul 64

263,349

Calculation of Parametron Driving current
and Determination of Specifications for Core Material,
by L. M. Aboyan, 5 pp.

RUSSIAN, per, Vychislitel Tekh Sbornik

Statey Mosk Ordena Lenina i Ordena

Trud Krasnogo Znameni Vyssh Tekh

Uchilishche Im. Baumana, Obor, No 3, 1963,

9697371

FTD-TT-65-108

Sci-Elec
Jul 65

263,558

Construction of Parametron Logic Circuits,
by L. M. Asoyan, 5 pp.
RUSSIAN, per, Vychislitel Tekh Sbornik
Statey, Mosk Ordena Lenina I Ordena
Trud Krasnogo Znameni Vyssh Tekh Uchilishche
Im. Baumana, Obor No 3, 1963, 9697371
FTD-TT-65-108

Sci-Elec
Jul 65

263,557

Limiting Law for Reliability of Sequential Systems
by ~~XXXX~~ B. G. Klimov, 17 pp.

Russian, per, Vychislitel'naya Tekhnika, No 4, moscow,
1962, pp 98-110. 9687649

FED-TT-63-470

Sci-Phys
Nov 63

240,790

The Parametron -- A Component of Digital Computers,
by L. M. Asoyan.
RUSSIAN, per, Vychislitel Tekh, No 3, 1963, pp 74-90.
*FTD-TT-65-108

Sci - M & D Proc
Feb 68

Some Problems in Parametron Research,
by L. M. Asoyan, M. G. Gevorkyan.
RUSSIAN, per, Vychislitel Tekh. No 3, 1963, pp 103-121.
*FTD-TT-65-108

Sci - M & D Proc
Feb 64

Analysis of the Structure of the Construction of Signs,
by A. S. Rudakov, 14 pp.
RUSSIAN, per ~~Сборник научных трудов ВНИИ
Информационных Вещей~~ Vychisl Tekh, No 3, 1963,
pp 153-164.
JPRS 23851

Sci - Data Proc
Mar 64 253, 079

Algorithm and Control System for
Open-Hearth Furnaces, by M. I. Korobko,
G. F. Martynyuk.
RUSSIAN, rpt, Vychisl Tekhn Dlya Avtomatiz,
Proiz-va, 1964, pp 107-117.
*FTD HT 23-895-67

Sci-Mechanical
Jun 67

Structure of Ferrimagnetic Films Produced in
Electrodeposition, by L. F. D'yachenko and
M. M. Galkovskaya.
RUSSIAN, et. / Vysokotekhnologiya
Sbornik statei, 1963, pp unknown.
*FTD-MT-68-205

sci-engr
Jun 65

Investigations of Magnetic Properties of
Thin Films, by E. N. Gevriyuk.
RUSSIAN, Dr. Vychislitel'naya Tekhnika,
Sbornik State, 1963, pp 134-136.
*FTD-MT-68-205

Sci-Engr
Jun 65

On Construction of Serial-Parallel Digital-Differential Analyzer, by A. V. Kalyayer and R. V. Korobkov, 18 pp.

RUSSIAN, per, Vychislitel'naya Tekhnika v Upravlenii. Sbornik Trudov III Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1964, pp 142-152.

P100328067
FTD-MT-66-136

Sci-Electronics and Electrical
Engineering

Dec 67

344,401

Desk-Sized Electronic Computer with Keyboard,
by A. I. Shauman and M. K. Chirkov,
RUSSIAN, rpt, Vychislitel'naya Tekhnika i
Voprosy Programirovaniya, No 1, 1962, pp 3-10.
*FTD-INT-67-36

Sci-Electr & Elect Engr
Jan 67

Some Problems of Input-Output of Data in
a Keyboard Desk Computer, by M. K. Chirkov,
I. Ya. Bereznyaya and A. P. Shartukov, 11 pp.
RUSSIAN, per, Vychislitel'naya tekhnika i
voprosy programirovaniya, No 1, 1962, pp.
48-57.

JPRS 30892

USSR
Sci-Math/DP
Jul 65

232,947

Modelling the Memory Process in the Simplest
Nervous Net on a Computer, by R. M. Granov-
skaya, V. A. Gansou, and G. Ya. Krivova, 5 pp.
RUSSIAN, per, Vychislitel'naya Tekhnika i
Voprosy Programirovaniya, No 3, 1964, pp.
58-62.
JPRS 30346

USSR
Sci-Math & IP
Jun 65

291,405

Algorithm for Character Recognition, by V. I.
Rushnakiy, 6 pp.
RUSSIAN, par, Vychislitel'naya Tekhnika i
Voprosy Programirovaniya, No 3, 1964, pp. 63-
68.
JPRS 30323

USSR
Sci-Math & D.P.
Jun 65

281,255

Algorithm for Image Outline Recognition, by
R. N. Granovskaya and V. A. Ganson, 11 pp.
RUSSIAN, per, Vychislitel'naya Tekhnika i
Voprosy Programirovaniya, No 3, 1964, pp. 69-
79.
JPRS 30323

USSR
Sci-Math & D.P.
Jun 65

281,256

Device for Computing and Modelling Neurons,
by V. A. Ganzen and R. M. Granovskaya, 7 pp.
RUSSIAN, per, Vychislitel'naya Tekhnika i
Voprosy Programirovaniya, No 3, 1964,
pp. 84-90.
JPRS 30346

USSR
Sci-Math & DP
Jun 65

231,406

CSO-1801

(AP)

RUSSIAN, per, Vychislitel'naya Tekh i Vozprosy
Program, No 3, 1964, pp 63-83.

*JPRS

Sci
Mar 65

One of the Methods of Evaluating the Algorithms of
a Problem to be Solved, by A. Ya. Sabel'yev.
RUSSIAN, per, Vychislitel'naya Tekhnika,
Vysshye Tekhnicheskoye Uchebnoye, No 4,
1964, pp 42-48.

~~SECRET~~ Item 1

*F7D-77-65-1590

Sci/Math
Jul 65

Improving the Accuracy Characteristics of
"Analog - digit" Converters, by N. N. Ustinov,
V. V. Meyer.
RUSSIAN, per, Vychislitel'naya Tekhnika,
Vysheye Tekhnicheskoye Uchilishche, No 4,
1964, pp 53-67.

~~SP-100-100-00~~ Item 2

*TTT-77-25-1596

Sci/Math
Jul 65

Calculation of Thermodynamic Functions From
Molecular Data, by Ivan Nicolaivich Godnev.

RUSSIAN, bk, Vychislenie Termodinamicheskikh
Funktsii po Molekulyarnym Dannym, 1956, 339 pp.

AEC Tr-3855

Sci - Phys
Aug 62

211, 446

On Algorithms That Can be Effectively Realized by
Computer Systems, by G. A. Bekishev, 14 pp.
RUSSIAN, per, Vychislitel'nyye Sistemy, No 7, 1963,
pp 24-37.
JPRS ~~27,910~~ 27,906

Sci-Math & Data Processing
Feb 65

272,938

Efficient Solution of Very ~~Simple~~ Simple Problems
in Matrix Algebra by Means of Computer Systems
Containing L Machines, by G. A. Bekishev, 29 pp.
RUSSIAN, per, Vychislitel'nyye Sistemy, No 9, 1963,
pp 3-29.
JPRS 27,907

Sci-Math & Data Processing
Feb 65

272,940

Computer Elements and Systems, Collection of
Papers, Issues No 1-8, 1962-1963.

Moscow, rpt, Vychislitel'nye Sistemy, 1963,
p. 1-391.

sci-tr-3837/1-3

sci-electric, Elect Engr
Feb 67

318,225

Arrangement of a Graph in a Plane, by
G. S. Plesnevich.
RUSSIAN, per, Sb. Vychisl. sistemy., Novosibirsk,
Vol 6, 1963, pp 45-53.
*FTD-HT-23-1029-67

Sci/Aero
May 68

~~УНИВЕРСАЛЬНЫЙ АВТОМАТИЧЕСКИЙ ЦИФРОВОЙ КОМПЬЮТЕР~~
Universal Automatic Digital Computer,
"Ural-2," is 10 pp.

brochure

RUSSIAN, ~~изд.~~ Yuchislitel'nyy Tsentr, Ak Nauk
SSSR, 1960, pp290-297. 9667424

FD-FF-601237

Math
Sci - Engr
Jan 63

219,950

S-1251/64

27 November 1964

Algorithms which can be used efficiently in Computer Systems, by G.A. Bekishev, pp 24-37

Vychislitel'nyye Sistemy, Novosibirsk, Akademiya Nauk SSSR, Sibirskoye Otdeleniye: Institut Matematik, No 7, Novosibirsk, 1963

Russian

wis

USNS/Sci/Mathematics

FD 16 December 1964

Include all illus.

DO NOT REUTILIZE DOC

S-1250/64

27 November 1964

The Efficient Solution of Very Simple Problems in
Matrix Algebra by Means of a Computer System Consisting
of L. Machines, by G.A. Bekishev, pp 3-29

Vychislitel'nyye Mashiny, Novosibirsk, Akademiya Nauk
Sov. Sibirskoye Otdeleniye: Institut Matematiki,
No 9, Novosibirsk, 1963

Russian

US R/Sci/Math

wis

TO 16 December 1964

Include all illus.

DO NOT REPRODUCE

Method of Characteristics For Calculating
the Flow of an Imperfect Gas, by
I. N. Naumova.
RUSSIAN, ~~publ.~~ ^{by} Vychislitel'nyy Tsentr
An SSSR, 1964.
*FTD-M-65-364

Sci-Phys
Aug 65

287,464

Solution of Boundary Layer Equation, by
I. Yu. Brailovskaya, L. A. Chudov, 1962

RUSSIAN, per, Sbornik Rabot Vychislitel'nogo
Tsentra Moskvskogo Universiteta, Vychislitel'nyye
Metody i Programirovaniye, Moscow, No 1, 1962,
pp 167-182. 5

*FTD-TT-63-285

Sci - Phys
XX 8 Mar 63

Design of Axisymmetric Nozzles Taking into
Account Equilibrium Physical-Chemical
Transformations by U. G. Pirumov,
V. A. Rubtsov, et al.
RUSSIAN, per, Vychislitel'nyy Tsentri Sbornik Rabot
Moskva Universitet, No 2, 1963, pp 48-60.
*FTD MT 67-29

Sci-Elect
Jun 67

Computers in Automatic Systems (Table of Contents of the Book), by A. A. Fel'dbaum, 15 pp.

RUSSIAN, bk, Vychislitel'nyye Ustroystva v Avtomaticheskikh Sistemakh, 1959, pp 3-7.

CIA/FDD X-4826

Sci

Mar 62

Computers in Automatic Systems, by
A. A. Fel'dbaum, 17 pp.
RUSSIAN, per, Vychislitel'nyye Ustroystva
v Avtomaticheskikh Sistemakh, 1959,
pp 367-376. 9698226
FTD-TT-65-618

Sci - Elec
Dec 65

291,944

(NY-6930)

Self-Adaptive Systems, by A. A. Feld'baum,
183 pp.

RUSSIAN, bk, Vychislitel'nyye Ustroystva v
Atomicheskikh Sistemakh, 1959, pp 634-700,
787-788.

JPRS 13190

Sci - Engr
Apr 62

190,525

An Outstanding Machine Builder of the 18th Century,
by A. S. Britkin, S. S. Vidonov. 120 pp.
RUSSIAN, ~~in~~ Vydavushchitsya Mashinostroitel'
XVIII veka A. K. Nazarov. 1980.
SFCS TT 64-11111

Sci/Engineering
Aug 65

287,394

Separation of Deterium form Hydrogen by
Deep Cooling (Chapters III, VI and VIII),
by M. P. Malkova.
RUSSIAN, bk, Vydeleniye Deyteriya iz Vodo-
roda Metodom Glubokogo Okhlazhdeniya, 1961,
pp 33-51, 86-107, 114-130.
FTD-S-180

Dec 68

354,675

Separate Organization for Planning the
Reconstruction of the National Economy,
14 pp.

RUSSIAN, bk, Vydeleniye planirovaniya tekhnicheskoy rekonstruktsii nar. khozyaystva, USSR, 11 October 1955.

CIA/FDD/λ-1948

USSR

29,887

Econ

R-434

Separation of Signals on the Background of Random
Interference, by L. A. Vaynshteyn, V. D. Ulyakov.

RUSSIAN, bk, Vydeleniye Signalov na Fone Sluchaynykh
Pomekh, 1960, 447 pp.

*Prentice Hall

10 May 61

Documents on the Battle of Moscow.
RUSSIAN, per, Vyellikaya Moskovskaya Bitva,
undated.
ACBI J-3252
ID 2204039667

USSR
M11
Nov 67

343,994

Like Brothers in One Family, by N'uan Tay,
8 pp.

RUSSIAN, per, Vietnam, No 10, (26), 1959,
pp 12, 13.

UGASTA, ACSI, H-6704

FE - Vietnam

Biographic

Aug 60

121,965

Unloading and Warming Non-Metallic Building
Materials Under Winter Conditions, by
A. P. Valadimirov, E. Yu. Braynin.
RUSSIAN, bk, Vygruzka i Podogrev Narudnykh
Stroitel'nykh Materialov v Zimnikh Usloviyakh.
ACSI J-1788
ESTC NT-23-25-68

Sci/Mat
Sep 68

363,281

Yield of some fragments during the fission of ^{235}U
by ^{235}U neutrons, by V. A. Maslov, G. A. Tsytin,
G. B. Kirin, 10 pp.

RUSSIAN, ok, Vynohdy Makotorykh Oskolkov pri
dalemni moshchnosti s energiyey 10.3 Mev.
1950. 0004570

ASO Tr-4665

176, 813

Sci - Nuc Phys
Dec 61

Fields of a number of Russian Protons in the
Fission of Uranium-235, Uranium-238, and Plutonium-239
by Neutrons, by K. A. Petrzhak, G. M. Tolmachev,
V. N. Koshchukov, 10 pp.

RUSSIAN, ex. Vychislitel'naya Otkalka, pri.
Delenii Uрана-235, Uрана-238, i Plutoniya-239
Deystviem Neutronov. 1960. 9094763

REF Tr-4586

176,805

Sci. Engr. Group
Dec 61

Fission Product Yields From the Fission of U^{235}
and U^{238} With Fast Neutrons, by E. K. Boryshkin,
Yu. S. Zayatskiy, I. S. Kirin, 13 pp.

RUSSIAN, in, Yadrol. Otkrytiya Daleniya U^{235} i
 U^{238} Dystroyai Neutronami, 1960. 9093011

ADW Tr-4692

Sci - Nuc Phys
Nov 61

177,282

Yields and Mass Distribution of Fission Products,
by Yu. A. Zysin, et al.

RUSSIAN, mono, Vykhody Produktov Deleeniya i Ikh
Raspredeleeniye po Massam, Moscow, 1963, 119 pp.

*CB (Available June 1965)

Sci-Nuc Sci
July 64

FORCED VIBRATIONS OF A SYSTEM WITH ONE DEGREE OF
FREEDOM IN THE PRESENCE OF DRY FRICTION AND WITH
AN OPERATING ARBITRARY EXCITING FORCE. VOL IV.
PROBLEMS OF DYNAMICS AND DYNAMIC STRENGTH.

RUSSIAN, BK, VYNUZHDENNYE KOLEBANIYA SISTEMY S
ODNOY STEPEN'U SVOBODY PRI NALICHII SUKHOGO TREENIA
I PRI PROIZVOL'NOI VOZMUSHCHAYUSHCHEY SILE.
SBORNIK STATEY. VOL IV, 1956, PP 95-121.

AEC
SCL-T-332

SCI - ENGR
JUN 62

200,000

T of C and Review of

Making of Steel for Shaped Castings, 5 pp.

RUSSIAN, bk, Vyplavka Stali Dlya Fasonnogo
Lit'ya, Moscow, 1957, 142 pp.

B-322

Head, Lib Sv Sec

Air Info Div

Lib Congress

Rectifiers and Stabilizers, by P. G. Fedoseyev,
533 pp.

RUSSIAN, bk, Vypriamiteli i Stabilizatory, 1960,
pp 1-518. 9689553-v

FTD-TT-63-245

Eci - Elec
Dec 63

243,610

Convex Figures and Polyhedra, by L. A. Lyusternik

RUSSIAN, bk, Vypuklye Figury i Mnogogranniki.

D.C. Heath Co., Publ.
285 Columbus Ave.
Boston 16, Mass.

Per Memo: NSF
16 Dec 60

8

Convex Functions and Orlicz Spaces, by M. A.
Krasnosel'skiy, Ya. B. Rutitskiy, 219 pp.

RUSSIAN, bk, Vypuklye Funktsii i Prostranstva
Orlicha, 1958.

AEC Tr-4311

Sci - Phys
Jul 61

157, 426

Table of Contents and Extracts From the Book,
Growing Potatoes, by V. S. Lekhnovich, 6 pp.

RUSSIAN, bk, Vyrashch Kartoffeliya, Leningrad,
1949, 59 pp.

Sci Tr Center RT-2428

Scientific - ~~Research~~ Biology
Dec 55 CTS/DEX

28, 172

S-585/03

Conclusion, by A. R. Luriya (SF-~~222~~2723)

RUSSIAN, bk, Vyshnye Kortikovyie Funktsii Cheloveka,
Moscow, 1962, pp 395-397.

*JPRS

Sci & Med

Jun 63

S-586/63

Table of Contents, (SF-2723)

RUSSIAN, bk, Vyshnye Kortikovyie Funktsii Cheloveka,
Moscow, 1962, pp 430-432.

*JPRS

S i - Med

Jun 63

Economy and High Efficiency for Machines
and Instruments, 11 pp.
RUSSIAN, mp, Vysoka, 23 Oct 1964, p 2.
JPRS 26982

USBR
Econ
Mar 65

276,272

Int/Bu. of Mines CP-5 3-67
(TD 21 Mar)

R-8 26-D
6 Mar 67

Hydrothermal Synthesis of Fibrous Silicates, by
A. D. Fedoseyev, et al.
RUSSIAN, per, Vysokikh Temperature, Adad. Nauk SSSR,
Inst. Khim Silikatov, 1963, pp 198-2-7

(1 pp.)

The Upper Layers of the Atmosphere, by
I. A. Klvostikov, 577 pp.
RUSSIAN, bk, Vysokiy Sloi Atmosfery, Leningrad,
1964. 9227473-V
NASA TT F-315

Sci-121.3
Jun 68

281,049

High and Ultra-High Pressures in Chemistry,
by M. G. Bonikberg.
RUSSIAN, bk, Vysokie i Sverkhvysokie Davleniya
v Khimii, 1958, 56 p.
NLL R. 34822

Sci-Chem
June 66

301,455

High Mountain Forest Soils of Eastern Tibet,
by S. V. Zonn, 325 pp.
RUSSIAN, bk, Vysokogornye Lesnye Pochvy Vos-
tochnogo Tibeta, 1964, pp. 1-236.
JPRS 31529

USSR
Sci-SSA
Aug 65

285,699

T/C and bk review
High-Refractory Materials and Oxide Product,
by S. G. Tresvyatskiy, A. M. Cherepanov, 5 pp.

RUSSIAN, bk, Vysokotempernyye Materialy i
Izdeliya iz Okislov, Moscow, 1957, 246 pp.

Air Info Div,

B-63
Head, Lib Sv Sec
Air Info Div, Lib Cong

Polymers with a Conjugated Bond System and
Heteroatoms in the Conjugation Chain, XX.
Synthesis of Polymeric Phthalocyanines and
Investigation of their Basic Physicochemical
Properties, by A. A. Berlin, L. G.
Cherkashina, E. I. Balabanov, 16pp.
RUSSIAN, per, Vysokomolekulyarnye Soedin-
eniya, Vol 11, No 13/14, 1941, pp 1081-
1091.
CFSTI TT-64-18404.

322,348

Sci - Chemistry
Mar 67

A Study of the Molecular Structure of
Synthetic Fibers. XIII. Polyenamamide, by
E. S. Fainberg.

RUSSIAN, per, Vysokomol Soedineniya, Vol I,
No 1, 1959, pp 17-20.

ATS RJ-2117

CT 6-11

Sci - Chem

May 60

115,404

Polymerization of Isoprene with a Butyl Lithium
Catalyst, by A. A. Korotkov, N. I. Chesnokova, L. I.
Prukhnina, 22 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 1, 1958,
pp 46-50.

PP

Sci - Chem

Apr 61

The Interaction Between Tetramethyl Thiuron
Disulphide and Rubber and Compounds Containing
an Active Hydrogen Atom in the Molecule, by D. A.
Dobutkina, V. A. Chernobayev, 23 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 1, 1954,
pp 22-24.

PP

Sci - Chem

Apr 64

Emulsion Polymerization Under the Influence of
 γ -radiation, by L. P. Koshireva, M. A. Yakovleva,
A. V. Matveyeva, 7 pp.

RUSSIAN, per. Vysokomol Soedin, Vol 1, No 1, 1959,
pp 63-71.

PP

Sci - Chem

Apr 61

Synthesis and Mechanical Properties of
Isotactic Polystyrene, by V. A. Kargin,
V. A. Kabanov, I. Yu. Marchenko, 10 pp.

RUSSIAN, per, Vysokomolekulyarnyye
Soedineniya, Vol I, No 1, 1959, pp 90-102.

ATB-04439R

Ac 1/13-2447

188,899

Sci
Mar 62

Vol IV, No 2

Preparation and Investigation of the Properties
of Graft Copolymers Based on Starch and Styrene,
by V. A. Nargin,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 3,
1959, pp 114-122.

ATS RJ-2127

Sci - Chem

MS-83436K

May 60

115, 413

The Interaction of Phenyl- β -naphthylamine With
Benzoyl Peroxide and the Effect of *o*-Benzoyl- β -
Phenyl- β -Naphthylhydroxylamine on the Oxidation
of Rubber, by B. A. Dogadkin, E. N. Belyayeva, 3 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 1, 1959,
pp 123-125.

PP

Sci - Chem

Apr 61

A study of Macroradicals in Polymerization and
Degradation Processes. Part 1, by S. E. Urasler,

RUSSIAN, per, Vysokomol Soedineniya, Vol. I.
No 1, 1959, pp 132-137.

NTS RJ-2121

Sci - Chem

May 60

dis. from ...
115,408

Indicatrix for the Light Scattering of Polymer
Solutions and Volume Effects, by V. Ye. Yeskin, 7 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol I,
No 1, 1959, pp 138-142.

SLA 60-16649 *1248-11*

Sci

Apr 62

190,255

Vol IV, No 6

Mikhailov, N. V., Fainberg, E. Z., and
Gorbacheva, V. O.

A STUDY OF THE MOLECULAR STRUCTURE OF
STEREOREGULAR POLYMERS. I. ISOTACTIC
POLYPROPYLENE. 9 May 62 [14]p.

Order from OTS or SLA \$1.60 63-10781

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR)
1959, v. 1, no. 1, p. 143-148.

DESCRIPTORS: *Polyethylene plastics, *Propenes,
Polymers, Physical properties, Chemical properties,
Molecular structure, X-ray diffraction analysis,
Calorimetry, Viscosity, *Plasticizers, *Heptanes.

This paper gives the results of the study of the physico-
chemical properties of isotactic polypropylene on the
basis of X-ray investigations, data of heat capacity and
viscosity of the dilute solutions.

(Materials--Plastics, TT, v. 10, no. 1)

63-10781

I. Mikhailov, N. V.
II. Fainberg, E. Z.
III. Gorbacheva, V. O.
IV. Title: Isotactic...

Office of Technical Services

Formation of Graft Polymers by the Ozonation
of Cellulose, by V. A. Kargin, et al. UNCL

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya,
Vol I, No 1, 1959, pp 149-151.

OTS 60-23810
DSIR LIU RES 1487

(7s. 6d.)

Sci - Chem

May 60

116,617

62-26490

Yang, Lin, Derevitskaya, V. A. and Rogovin, Z. A.
DÉVELOPPEMENT DES PROCÉDES DE SYNTHÈSE
DES ESTERS DE CELLULOSE AVEC LES ACIDES
AMINES N-SUBSTITUÉS (Synthesis of Cellulose Esters
with N-Substituted Amino Acids). Sp. 6 refs.
Order from OTS, ETC or CNRS \$0.80 62-26490

Trans. in French of Vysokomolekulyarnye Soedineniya
(USSR) 1959, v. 1, no. 1, p. 157-161.

DESCRIPTORS: *Cellulose esters, *Amino acids,
Synthesis (Chemistry).

(Chemistry--Organic, TT, v. 10, no. 7)

- I. Yang, Lin.
- II. Derevitskaya, V. A.
- III. Rogovin, Z. A.
- IV. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

Study of the Molecular Structure of Synthetic
Fibers. XIV. Physicochemical and Physicochemical
Properties of Polyamides in the Polycaprosamide-
Polyundecanamide Series, by N. V. Mikhailov,

RUSSIAN, *uzh*, Vysokomol Soedineniya, Vol I,
No 2, 1959, pp 185-199.

ATS BJ-2118

ATC-531074

Sci - Chem

May 60

115 405
/

Investigation of the Anisotropy of Electrical
Conductivity of Polymeric Electrolytes, by V. A.
Kargin, S. Ya. Mirlina, Yu. F. Nagornaya, 13 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 191-200.

PP

Sci - Chem

Apr 61

Mikhailov, N. V. and Fainberg, E. Z.
STUDIES ON THE MOLECULAR STRUCTURE OF
SYNTHETIC FIBERS. XV. THERMOCHEMICAL
PROPERTIES OF THE POLYAMIDE SERIES: POLY-
CAPRAMIDE TO POLYUNDECANAMIDE. [1961] [8] p.
7 refs.

Order from OTS or SLA \$: 10

61-20637

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. : [no. 2] p. 201-207.

DESCRIPTORS: *Synthetic fibers, Materials, *Amides,
Properties, Thermodynamics, Polymers, Heat of
solution, Phase transitions, Methanes, Ethylenes,
Polymers, Molecular structure, Thermochemistry,
Fibers

A comparative study was made of the thermodynamic
properties of the polymers of the polyamide series:
polycapramide to polyundecanamide. On the basis of
(Materials--Textiles, TT, v. 7, no. 5) (over)

61-20637

I. Mikhailov, N. V.
II. Fainberg, E. Z.
III. Title: Thermochemical ...

Office of Technical Services

Heterochain Polyamides. XI. Synthesis and Study of Polyamides Containing Sulfide and Sulfone Sulfur in the Chain, by V. V. Korshak, et al.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol I, 1959, pp 208-214.

ATC/AS-2421
ATS 3701R

138,280

Sci. o. Gum

The Diffusion Theory of Adhesion, by S. S.
Voyutskiy.

RUSSIAN, per, *Vysokomolekulyarnye Soedineniya*,
Vol I, No 2, 1959, pp 230-239.

DSIR LLU RTS 1505

Sci - Phys

128,835

Oct 60

<p>Slonimskiy, G. L. and Yershova, V. A. ON THE TEMPERATURE DEPENDENCE OF THE DEFORMATION OF CRYSTALLINE POLYMERS. Feb 60 [S]p. 15 refs Order from LC v. Sl.A ml\$1.85, pb\$1.80 61-10209</p>	<p>61-10209</p>
<p>Trans. of <u>Vysokomolekulyarnyye Soyedinyeniya</u> (USSR) 1959, v. 1, no. 2, p. 240-243.</p>	<p>1. Amide polymers-- Crystallization 2. Polymers--Deformation 1. Slonimskiy, G. L. 2. Yershova, V. A.</p>
<p>A study was made of the mechanical properties of polyhexamethylene adipamide over a wide range of temperatures. Anomalies were found in the tempera- ture dependence of the deformability and recrystalli- zation stress in the interval 180 - 190°C. The anom- alies are associated with the kinetics of crystalliza- tion and recrystallization of the polymer. (Author)</p>	<p>143,205</p>
<p>(Materials--Textiles, TT, v. 5, no. 4)</p>	<p>Office of Technical Services</p>

The Action of Binary Systems of Vulcanization
Accelerators, by B. A. Dogadkin, M. S. Fel'dshtein,
E. N. Belyayeva, 14 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 254-264.

PP

Sci - Chem

Apr 61

Polymerization in Systems Obtained by the Method of
Molecular Beams, by V. A. Kargin,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 2,
1959, pp 265-268.

ATS RJ-2124

Sci - Chem

May 60

115,410

<p>Kitaygorodskiy, A. I. and Tavankin, D. Ya THE STRUCTURE OF CELLULOSE, I (K. Vopr. Strukt. Tsellyulozy. 1-II). Feb 61 [24]p. 42 refs. RTS 1595. Order from L.C. or S.L.A. m\$2.70, ph\$4.80 r1-19243</p>	<p>1-19243</p> <ol style="list-style-type: none">1. Cellulose--Molecular structure2. Cellulose--X-ray analysis <p>I. Kitaygorodskiy, A. I. II. Tavankin, D. Ya III. RTS-1595 IV. Department of Scientific and Industrial Research (Gr. Brit.)</p>
<p>Trans. of Vysokomolekularnyye Soyedineniya (USSR) 1959, v. 1, no. 2, p. 269-286</p>	<p><i>DSIR LLU RTS 1595</i></p> <p>10055.</p>
<p>One-dimensional diffraction on the X-ray diagrams of cellulose fibres was studied. The cause of one-dimensional diffraction is a statistical dispersion of the centres of chains in the equatorial plane (≈ 2) and a deviation of chains from their proper course along the axis (≈ 2). There are no irregular regions as regards the arrangement of the chains and their links in the structure of cellulose. The same groups of chains are responsible for both one-dimensional diffraction and the three-dimensional reflexions.</p>	<p>Office of Technical Services</p>
<p>(Chemistry--Organic, TT, v. 5, no. 12)</p>	