

PHASE I BOOK EXPLOITATION

SOV/3898
SOV/31-M-12

Academiya nauk URSR. Institut teploenergetiki

Teploobmen i gidrodinamika (Heat Transfer and Hydrodynamics) Kiev, 1958. 190 p. (Series: Itsi Stornik trudov, no. 14) 2,030 copies printed.

Eds. of Publishing House: Ye.L. Kaplan and M.M. Labinova; Tech. Sci.: M.I. Yefimova; Editorial Board: I.T. Sveta (Ed.), Academician, Academy of Sciences URSR; G.M. Shcherbakov (Ed.), Candidate of Technical Sciences; N.M. Kondak (Ed.), Corresponding Member, Academy of Sciences URSR; V.I. Tolubinskiy, Doctor of Technical Sciences; M.M. Nazarchuk, Candidate of Technical Sciences; P.D. Svetov, Professor; and N.M. Pyatishin, Candidate of Technical Sciences.

PURPOSE: This collection of articles is intended for scientific workers and technical personnel in the fields of heat transfer and hydrodynamics.

COVERAGE: This collection of 18 articles deals with experimental and theoretical studies of problems in heat transfer and hydrodynamics as they affect steam and gas turbines and heat transfer in turbine components and in elements of heat-utilizing apparatus are described. The calculation methods are suggested. Several problems of the thermodynamics and aerodynamics of steam and gas turbines are discussed. References follow each article.

Belitskiy, S.A. Investigation of the Amount of Heat Given off when Steam Solutions of Lithium Bromide and Lithium Chloride are Boiled Under Vacuum. The paper deals with a study of the heat-transfer coefficient for boiling solutions of LiBr and LiCl under conditions of solution, the ambient pressure, and other parameters are determined.

Politskiy, M.I. Approximate Method of Calculating Velocity and Temperature Fields for the Case of Laminar Flow of a Compressible Fluid with Heat-Transfer Around an Object. On the Possibility of Reducing the Differential Equations of a Laminar Boundary Layer to Ordinary Differential Equations.

Shkretz, P.D., and V.I. Pechuk. Aerodynamic Investigations of the System of Interdiffuser Exchange of Steam in Powerful Steam Turbines. The authors present the results of model tests to study interdiffuser exchange in steam turbines. The study is primarily concerned with the hydraulic losses encountered. Recommendations for reducing the internal drag of the system are presented.

Gashchenko, I.L. Effect of Manufacturing Defects on End Losses in the Guide Vanes of Welded Turbine Impellers.

Gorbaty, Yu.P., A.Sh. Dorfman, and M.I. Soykovskiy. Effect of Reversibility and Pitch on the Magnitude of the Profile Losses in Cascades.

Soykovskiy, M.I., and A.Sh. Dorfman. Criteria for Estimating the Efficiency of Intake Nozzles.

Yermachenko, A.S., and A.P. Pedosenko. Losses in Turbine Guide Vanes of the Cascade Type.

Yermachenko, A.S., and A.P. Pedosenko. Investigation of the Losses in Turbine Blade Cascades. The above two papers deal with an investigation of the losses in turbine guide vanes of the cascade type. The efficiency of the cascade is determined as a function of the inflow angle, blade-incidence angle, blade pitch, and other parameters.

Sveta, I.T., V.M. Sidun, and L.I. Romanuk (Deceased). Experimental Investigation of the Heat Conductivity of Soils Used in Greenhouses and Hotbeds.

AVAILABLE: Library of Congress

186

Card 7/7

AC/PA/wh
7-28-60

... flow rate determination for liquid... between 1960
reviewed. The devices employed for this purpose utilize techniques based on the
application of the Bernoulli equation (nozzles, diaphragms, etc.), on thermal
phenomena (hot-wire sondes, etc.), on rotating propellers, on radioactivity (iso-
topes mixed with the flowing substance and the flow monitoring...
electromagnetic phenomena (magnetic flowmeters).

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205330005-3

NO REF SOV: 006

OTHER: 096

SOV CODE: 15

Page 2/2

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205330005-3"

BIRSA, Mirko, Dr.

Uropepsinogen method in diagnosis of pernicious anemia. Med.
glasn. 9 no.9:344-346 Sept 55.

1. Splosna bolnica v Mariboru. Interni oddelok. (upravnik
primarij dr. M. Houska).

(ANEMIA, PERNICIOUS, diag.
uropepsinogen method. (Ser))

(ENZYME PRECURSORS,
uropepsinogen method in diag. of pernicious anemia.
(Ser))

HOUSKA, Mirko; BIRSA, Mirko

The value of uropepsinogen determination in stomach diseases.
Zdrav. vest., Ljubljana 24 no.9-10:327-331 1955.

1. Interni oddelek splosne bolnice v mariboru - sef primarij
Dr. Mirko Houska.

(STOMACH, dis.

diag., uropepsinogen determ., value (S1))

(ENZYME PRECURSORS,

uropepsinogen determ. in diag. of stomach dis., value (S1))

RUMANIA/Soil Science - Soil Genesis and Geography.

J

Abs Jour : Ref Zhur Biol., No 19, 1958, 86722

Author : Oancea, C., Deleanu, A. ~~and Birsan, A.~~

Inst : -

Title : Soil Investigations in the Valan-Novaci-Cimpul Mare and
Targul-Jiu Regions (Subcarpathian Olten Depression Ruma-
nian Peoples Republic)

Orig Pub : Dari seama sedint. Com. geol. RFR, 1954, Vol 41,
Buciresti, 1957, 115-121

Abstract : No abstract.

Card 1/1

BIRSAN, A.

Wearing tests and their statistical interpretation. p. 49.
(Industria Textila. Vol. 8, No. 2, Feb. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (REAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

BIRSAN, Aurel, ing.

Casting calmed, steel under pressure. Metalurgia si constr
mas 15 no.3:193-198 Mr '63.

1. Comitetul de stat pentru tehnica noua.

BIRSAN, Aurel, correspondent

Labor protection. Constr Buc 17 no.787:4 6 F '65.

POPA, N., ing.; BIRSAN, C., ing.; BANICA, P., ing.; LAZAR, L., ing.;
VASILIU, M.

Debating the quality of light insulating materials. Constr
Buc 16 no. 736:2 15 F'64.

1. Director al Intreprinderii de Prefabricate de Elemente de
Constructie, Brasov (for Birsan). 2. Directorul intreprin-
derii "Granitul", Bucuresti (for Banica). 3. Directorul
fabricii "Teleajen", Berceni (for Vasiliu).

VASARU, Gh.; BIRSAN, E.T.

Applications of stable isotopes. Pt. 2. Studii cerc fiz 16 no.10:
1207-1230 '64.

1. Institute of Atomic Physics, Cluj (for Vasaru). 2. Chair of
Toxicology, Medicopharmaceutical Institute, Cluj (for Birsan).

ACC NR: AP6020893

SOURCE CODE: RU/0003/65/016/009/0456/0458

AUTHOR: Galea, V.; Birsan, E. T.; Uray, Ildiko

ORG: Department of Toxicology, IMF, Cluj (Catedra de Toxicologie, IMF);
Institute of Hygiene and Labor Safety, Cluj (Institutul de Igienea si Protectia
Muncii)

TITLE: Natural inorganic decontaminating agents for sup 134 Cs and a mixture of
sup 90 Sr and sup 134 Cs in water

SOURCE: Revista de chimie, v. 16, no. 9, 1965, 456-458

TOPIC TAGS: nuclear decontamination agent, cesium, strontium, gypsum rock

ABSTRACT:

The authors studied the decontaminating effectiveness of crude gypsum, commercial superphosphate and 4 varieties of bentonite for solutions of ¹³⁴Cs alone or mixed with ⁹⁰Sr and ⁹⁰Y. The effect of varying the proportions of decontaminating agents and of varying the pH of the solution was also studied. Orig. art. has: 12 figures. [Based on authors' Eng. abstract]. [JPRS]

SUB CODE: 18 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 012

Card 1/1 CV

UDC: 628.54:546.36.02:546.42.02:661.183.1

L 34691-66 RO

ACC NR: AP6025849

SOURCE CODE: RU/0003/65/016/007/0318/0320

AUTHOR: Galea, V.--Galya, V.; Birsan, E. T.--Byrsan, Ye. T.; Uray, Ildiko

ORG: Department of Toxicology, Medical-Pharmaceutical Institute, Cluj (Catedra de toxicologie, Institutul de medicina si farmacie); Laboratory of Radiation Hygiene, Institute of Hygiene and Labor Safety, Cluj (Laboratorul de igiena radiatiilor, Institutul de igiena si protectia muncii)

TITLE: Decontamination of waters containing sup 90 Sr and sup 90 Y gypsum and bentonites

SOURCE: Revista de chimie, v. 16, no. 7, 1965, 318-320

TOPIC TAGS: phosphate, nuclear decontamination, strontium, ytterbium

ABSTRACT: A report on a study of the decontaminating capacity of raw gypsum, commercial superphosphate and some Rumanian bentonites. The tests also considered the quantity of decontaminating agent, various proportions in mixtures of the substances, the presence of salts often found in surface waters, and the pH. Best results were obtained with raw gypsum, especially for fluoridated water; bentonites were found to be most effective as mixtures of two types. Orig. art. has: 5 figures. [Based on authors' Eng. abstract] [JPRS: 34,161]

SUB CODE: 18, 07 / SUM DATE: none / OTH REF: 029

Card 1/1

UDC: 628.54:546.42.02:546.64.02

0916 0980

BIRSAN, G.

The problem of engine troubles and defects in airplanes and motors.
p. 23. ARIPILE PATRIEI. (Asociatia Voluntara pentru Sprinjinirea
Aparaili Patriei) Bucuresti. Vol. 2, no. 6, June 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress.
Vol. 5, no. 9, Sept. 1955

BIRSAN, G.M.

On the calculation of frequencies of natural oscillations of an
oblique plate enchased on the contour. Bul stiint polit Cluj 6:
127-133 '63.

MIHAILESCU, Viorel I., asistent; BIRSAN, I. (Iasi); SOSINSKI, Aleksei, asistent

Mathematical notes. Gaz mat B 16 no.4:155-160 Ap '66.

1. Polytechnic Institute, Bucharest (for Mihailescu).
2. "Lomonosov" University, Moscow (for Sosinski).

BIRSAN, I.

RUMANIA/Electronics - Vacuum Technique

H-9

Abs Jour : Ref Zhur - Fizika, No 7, 1958, No 16124

Author : Arcan L., Bally D., Birsan I.

Inst : Not Given

Title : Magnetic Manometer for Large Range of Pressures

Orig Pub : Studii si cercetari fiz., 1957, 7, No 1, 85-89

Abstract : Description of a magnetic manometer, whose operating principle is analogous to the Penning manometer, but having several advantages over the latter, namely an increased sensitivity (thanks to a considerable increase in the mean free path of the electrons), a larger range of measured pressures (10^{-4} to 10^{-8} mm mercury). The higher sensitivity of the manometer makes it possible to use it as a leak detector in vacuum apparatus.

The manometer is a diode having electrodes of special construction. The anode is a filament located along the axis of a cylindrical cathode. The space between the two is subdivided into several sections by means of disks (0.1 mm thick)

Card : 1/2

BIRSAN, I., ing.

Considerations on the sorting problem of mechanical wood pulp
in connection with some achievements obtained in this field
at the 1 Septembrie Paper Mill. Cel. hirtie. 11 no.1:25-31
Ja'62.

BIRSAN, I., ing.

Modernization of the No.8 newsprint machine at the 1 Sep-
tembrie Paper Mill. Cel. hirtie 10 no.1:11-20 Ja'61

BIRSAN, Ion, ing.

Contribution of the chemical industry which must be given for
the future development of the paper industry in Rumania. Cel
hirtie 10 no.6:211-212 Je'61.

ZAGANESCU, Ion, prof. ing.; POPESCU, Calus, conf. ing.; BIRSAN, Ion, asist.
ing.

Diesel engines for railroads of secondary lines. (R.). Rev.
cailor fer 12 no.54127-131 1964

ZACARESCU, Ion, prof. ing.; POPESCU, Caius, conf. ing.; BIRSAN, Ion,
Asist. ing.

Diesel engines for secondary lines. Pt. 2. Rev cailor fer
12 no. 4:179-187 Ap '64.

BIRSAN, Iosif

Social and cultural achievements in the Jiu Valley coal
basin since the advent of the People's Democracy. Rev min
13 no.8:359-360 Ag '62.

BIRSAN, N.

The best kinds of potatoes for summer planting in the Baragan Steppe. p. 1199.
(COMUNICARILIE. Rumania. Vol. 6, no. 10, Oct. 1956)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

Country : RUMANIA

Category: Cultivated Plants. Grains.

M

Abs Jour: RZhBiol., No 11, 1958, No 48880

Author : Davidescu, D.; Birsan, N.; Avram, P.; Enescu, D.;
Popescu, I.; Vinas, I.; Davidescu, E.

Inst : Sci. Res. Inst. of Agriculture.

Title : Results of the Experiments on the Introduction of
Fertilizers Under Corn, and Spring and Winter Wheat.

Orig Pub: An Inst. cercetari agron , 1957, 24, No 5, 47-69

Abstract: Experiments on the application of fertilizers were
conducted during 1953-1955 at the following stations:
at the Experimental Station of Merkuleshti in Kon-
stantza region, on applying basic fertilizers under
corn; at the experimental stations of Kynpia Turziy

Card : 1/2

ADAMACHE, I., ing.; IANCULESCU, E., ing.; PANTEA, I., ing.; BIRSAN, P.,
ing.; CIRCOANA, V., ing.

Criteria for applying methods against sand migration.
Petrol si gaze 15 no.10:542-549 0 '64.

DUCA, M.; TEODOROVICI, Gr.; OANA, C.; DUCA, Eugenia; VITA, Alla; BIRSAN, St.;
ROSCA, Lucia; VANCEA, Georgeta; DIMITRIU, G.; MIHAILESCU, G.

Epidemic of adenovirus infection with ocular manifestations. Stud.
cercet. inframicrobiol. 13 no.3:359-366 '62.

(ADENOVIRUS INFECTIONS) (EYE MANIFESTATIONS)
(KERATOCONJUNCTIVITIS)

BIRSAN, T.; MICLES, A.

Mechanization applied in the Jiu River valley mines. p. 413.

REVISTA MINELOR. (Ministerul Minelor, Ministerul Industriei Petrolului si
Chimiei, Directia Exploatarilor Miniere si Asociatia Stiintifica a Inginerilor
si Tehnicienilor din Romania) Bucuresti, Rumania. Vol. 10, no. 10, Oct. 1959

Monthly list of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960

Uncl.

BIRSAN, Temistocle (Iasi)

On the connection coefficients of a space with affine connection
and with a given tensor of curvature. Studii mat Iasi 14 no.1:
163-175 '63.

BIRSANESCU, St., dr., prof. univ.; OBREJA, Al., conf. univ. (Iasi)

Principles, methods, and proceedings applied in teaching
geography in the general education schools. Natura Geografie
16 no. 4:52-56 J1-Ag '64.

ACC NR: AP6007170

SOURCE CODE: UR/0115/65/000/012/0067/0067

AUTHOR: Birshert, A. A.; Kovtun, K. P.

ORG: none

TITLE: Simple measuring circuit for an MT-6 thermoelectric manometer

SOURCE: Izmeritel'naya tekhnika, no. 12, 1965, 67

TOPIC TAGS: manometer, vacuummeter, vacuum measurement, gas pressure

ABSTRACT: The MT-6 thermoelectric manometer combined with a VSB-1 vacuummeter permits measuring air (or gas) pressure within 1--4000 newtons/m². The vacuumeters, however, have been in short supply, they are complicated and expensive. Hence, a simplified electronic circuit is suggested to replace the above vacuummeter. The two-electron-tube circuit includes an a-f oscillator and operates on a bridge-compensating principle (circuit diagram is shown). Three or more MT-6 bulbs can be connected to the new circuit via a change-over switch. A calibration curve for dry air and nitrogen is given. Orig. art. has: 2 figures.

SUB CODE: 14, 09 / SUMM DATE: none

Card 1/1 CC

UDC: 681/2/084:531.787/8

BIRSHERT, A.A.

Inertia of thermoelectric manometric converters. Prib. i
tekh.eksp. 10 no.5:183-187 S-O '65.

(MIRA 19:1)

1. Submitted July 13, 1964.

DIRSHERT, B. N

Def. at
Tbilisi State U.

74
Dissertation for Degree of
Candidate Occupational Counselor

[illegible]

8 (6)

SOV/91-59-11-10/27

AUTHOR: Birshert, G.G., Engineer

TITLE: Reducing the Contamination of Hydrogen by Air in TV-50-2 Turbogenerators

PERIODICAL: Energetik, 1959, Nr 11, pp 16-17 (USSR)

ABSTRACT: The author explains how air enters the interior of the hydrogen-cooled TV-50-2 turbogenerator of the "Elektrosila" plant. Since the generators of this type work with an excess of hydrogen pressure, air cannot enter the stator through leaks. It was found that the oil fed to the gaskets is the only source of the air contamination. The oil coming from bearing Nr 4 carries a considerable amount of air and is fed to the vacuum cleaning tank. However, not all of the air is removed in the vacuum tank. The oil then enters the heated gaskets and the remaining air will escape. To eliminate the air content of the oil, the author suggests feeding the vacuum tank from the main oil tank of the turbogenerator instead of using the oil from bearing Nr 4. The direct

Card 1/2

SOV/91-59-11-10/27

Reducing the Contamination of Hydrogen by Air in TV-50-2 Turbogener-
ators

pipeline connection was blocked by a valve. The oil from bearing Nr 4 will enter in this case the main oil tank before going to the vacuum tank. The air contamination of the hydrogen in the turbogenerator was reduced considerably. Previously, purging of the hydrogen had to be performed within four or five days, whereby about 20-30 cu m of hydrogen were consumed. There are 2 diagrams.

Card 2/2

BIRSHERT, G.G., insh.

Feeding TV-60-2 turbogenerator glands from the main turbine
oil pump at low hydrogen pressure. Energetika 8 no.3:21
Mr '60. (MIRA 13:6)

(Turbogenerators--Lubrication)

BIRSHERT, G.G., inzh.

Increasing the operational reliability of the outlets of
a hydrogen cooled turbogenerator. *Energetik* 8 no.7:
32-33 J1 '60. (MIRA 13:8)
(Turbogenerators)

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CIA-RDP86-00513R000205330005-3"

Computing mechanisms in naval fire-control apparatus Moskva, Voen. izd-vo, 1948.
268 p. (49-20816)

VF145.B6

BIRSHTEYN, A. Ya.

Studies of underground fauna in the Crimea carried out in the
summer of 1960. Nov.kar.i spel. no.3:69-72 '63. (MIRA 16:10)

BIRSHTEYN, G. M.

O. B. Ptitsyn, G. M. Birshteyn, and Yu. A. Sharonov, "Interior Rotational Isomerism in Polyisobutylene and Polystyrene."

report presented at the Symposium on Concepts of Conformation in Organic Chemistry which took place in Moscow at the IOKh AN SSSR (Institute of Organic Chemistry, AS USSR) from September 30 to October 2, 1958.

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, No. 3, 561-564.

BIRSHTEYN, G. M., VOLKENSHTEYN, M. V., GODZHAYEV, N. M., GOTLIB, YU. YA.,
YELYASHEVICH A. M., and PTITSIN, S. B. (USSR)

"Statistic Thermodynamic and Kinetic Model Theory of Biosynthesis."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

BIRSHTEYN, Mariya Mironovna; NEYMARK, Mariya Moiseyevna;
TIMOFEYEVSKIY, T.P., red.; FREGER, D.P., red.izd-va;
BELOGUROVA, I.A., tekhn. red.

[Mechanized system of mass documentation for enterprises
(Soviet and foreign practices)] Mekhanizirovanoe sostav-
lenie massovoi dokumentatsii na predpriatiakh (sovetskii
i zarubezhnyi opyt); obzor. Leningrad, 1962. 111 p.
(MIRA 16:3)

(Information storage and retrieval systems)

end-to-end distance of rotation isomers as given by Volpert
shield (cf. preceding abstract)

BIRSHTEYN, T.M.: FRITSYN, O.B.

Physical properties of the internal rotation of polymer chains.
Part 1. Chemical structure and dipole moments of linear polymer
molecules in solution. Zhur.tekh.fiz. 24 no.11:1998-2010 N 154.
(MLRA 7:12)
(Polymers and polymerisation) (Electric moments)

USSR .

The geometry of linear polymers. IV. Stereoisomerism of the polymer chain. A. M. Hirshtein and O. B. Pittayn (Inst. High Molecular Weight Compounds, Leningrad). *Zhur. Fiz. Khim.* 28, 213-23 (1954); cf. *C.A.* 48, 5692f; 49, 2824b. — The effect of stereoisomerism on the av. dimensions of polymer chains was studied for polymers with asym. substituents, R. Equations are developed for calcg. the av. dimensions. For a chain in which the R groups are trans to one another, asymmetric substituents have almost no effect but when they are all cis to one another a significant increase in the coiling of the polymer chain occurs. J. Rovtar Lengh

BIRSHTEYN, T. M.

Ptitsyn, O.B., Birshteyn, T.M. and Sharonov, Yu.A. [Institut vyso-ko-molekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds AS USSR)] Theory on Dipole Moments of Polymeric Molecules

(The Physics of Dielectrics; Transactions of the All-Union Conference on the Physics of Dielectrics) Moscow, Izd-vo AN SSSR, 1958. 245 p. 3,000 copies printed.

This volume publishes reports presented at the All-Union Conference on the Physics of Dielectrics, held in Dnepropetrovsk in August 1956, sponsored by the "Physics of Dielectrics" Laboratory of the Fizicheskii institut imeni Lebedeva AN SSSR (Physics Institute imeni Lebedev of the AS USSR), and the Electrophysics Department of the Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University).

48-22-3-23/30

AUTHORS: Ptitsyn, O. B., ~~Birshteyn, T. M.~~, Sharonov, Yu. A.

TITLE: Theory of the Dipole-Moments of Polymeric Molecules (Teoriya dipol'nykh momentov polimernykh molekul) **Report Theses**
(Tezisy doklada)
For Details Consult T. M. Birshiteyn, O. B. Ptitsyn, ZhTF, 24, 1998 (1954), O. B. Ptitsyn, Yu. A. Sharonov, ZhTF, 27, 2744, (1957) (Podrobno sm. T. M. Birshiteyn, O. B. Ptitsyn, ZhTF, 24, 1998 (1954) O. B. Ptitsyn, Yu. A. Sharonov, ZhTF, 27, 2744, (1957)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958, Vol. 22, Nr 3, pp. 324 - 324 (USSR)

ABSTRACT: 1) A theory of the dipole-moments of the polymer-molecules was proposed which connects the mean square of the dipole-moment of the polymeric chain with its chemical structure, with the stereoisomerism and with the retarding of inner rotation. The theory refers to the polymers of the type $(-CR_2-)_n$

Card 1/4

48-22-3-23/30

Theory of the Dipole-Moments of Polymeric Molecules. **Report Theses**
 For Details Consult T. M. Birshteyn, O. B. Ptitsyn, ZhTF, 24, 1998 (1954) O. B. Ptitsyn, Yu. A. Sharonov, ZhTF, 27, 2744, (1957)

$(-CH_2-CR_2-)_n$, $(-CH_2-CHR-)_n$ and $(-CHR-)_n$, where R is a polar pendant (privesok). Besides the first approximation of the theory which takes only account of the interaction between the nearest chain-series, also a second approximation was obtained which takes account also of more far distanced series. 2) It was shown that the dipole-moment can largely depend on the stereoisomerism of the chain: with chains of the type $(-CH_2-CHR-)_n$

and especially $(-CHR-)_n$ the dipole-moment is substantially smaller with the dl- than with the dd- position of the polar groups (under equal conditions of inner rotation in the chain). It was also shown that in chains of the type $(-CH_2-CHR-)_n$ with closely connected dipoles the dipole-moment depends on the circumstance which pendants - polar or non-polar - mutually

Card 2/4

48-22-3-23/30

Theory of the Dipole Moments of Polymeric Molecules.

Report Thesis. For Details Consult T. M. Birshteyn, O. B. Ptitsyn, ZhTF, 24, 1998 (1954) O. B. Ptitsyn, Yu. A. Sharonov, ZhTF, 27, 2744, (1957)

repel more intensely. When an inner rotation takes place in polar pendants, then the dipole moment does not depend on the structure in the first approximation. 3) A comparison of the theory with the experimentally found values according to poly-p-halogen styrenes and polychlorovinyl show that in the chains of these polymers the phenyl series or the chlorine atoms repel mutually more intensely than the hydrogen atoms. The degree of retardation of rotation in these polymers which was determined according to dipole moments in accordance with experimentally obtained data corresponds approximately to the values determined from the size of the molecules and from the photoelastic moment.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute for High-Molecular Compounds AS USSR)

Card 3/4

48-22-3-23/30

Theory of the Dipole Moments of Polymeric Molecules.

Report Theses. . For Details Consult T. M. Birshteyn, O. B. Ptitsyn, ZhTF, 24, 1998 (1954) O. B. Ptitsyn, Yu. A. Sharenov, ZhTF, 27, 2744, (1957)

AVAILABLE: Library of Congress

1. Polymeric molecules--Dipole moments--Theory

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR. (Dielectrics)

Card 4/4

AUTHOR: Birshteyn, T. M.

57-28-4-24/39

TITLE: The Internal Rotation in Polymeric Chains and Their Physical Properties (Vnutrenneye vrashcheniye v polimernykh tsepyakh i ikh fizicheskiye svoystva). IX. The Average Optical Anisotropy of the Polyisobutylene-Molecules (IX. Srednyaya opticheskaya anizotropiya molekul poliizobutilena)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 4, pp. 813-826 (USSR)

ABSTRACT: It is shown here that in the case of tetrahedral valence-angles the polyisobutylene-molecules on the average are optically isotropic, independent of the nature of internal rotation. In a rotary-isomeric approximation the author here performs the calculation of the average optical anisotropy of the polyisobutylene molecules in the case of a complete correlation of the internal rotations within the monomer and of the independent internal rotations of the monomers. The obtained value for the average optical aniso-

Card 1/2

BIRSHTEYN, T.M.

Internal rotation in polymer chains and their physical properties.
Part 1: Stretching of rotational isomeric and freely connected polymer
chains. Zhur. tekhn. fiz. 28 no.11:2493-2501 N '58. (MIRA 12:1)
(Polymers) (Molecular rotation)

BIRSHTEYN, T. M., Cand Phys-Math Sci (diss) -- "Configuration statistics of stereoregular macromolecules". Leningrad, 1959. 11 pp (Acad Sci USSR, Inst of High-Molecular Compounds), 250 copies (KL, No 9, 1960, 121)

BIRSHTEYN, T.M.

Inner rotation of polymer chains and their physical properties.
Part 16: Mean optical anisotropy of isotactic vinyl polymer molecules. Vysokomolekul. soed. 1 no.5:748-757 My '59. (MIRA 12:10)

1. Institut vysokomolekulyarnykh soedineniy AN SSSR.
(Vinyl polymers--Optical properties)

BIRSHTEYN, T.M.; PTITSYN, O.B.

Stereospecificity of polymers as a function of polymerisation conditions. Vysokom. soed. 1 no.6:846-851 Je '59.
(MIRA 12:10)

1. Institut vysokomolekulyarnykh soedineniy AN SSSR.
(Polymerisation)

BIRSEMYN, T.M.; PTITSYN, O.B.; SOKOLOVA, Ye.A.

Internal rotation and physical properties of polymer chains. Part
17: Conformation of polyisobutylene and polydimethylsiloxane mole-
cules in solution. Vysokom. soed. 1 no.6:852-856 Je '59.

(MIRA 12:10)

1. Institut vysokomolekulyarnykh soedineniy AN SSSR.
(Siloxane) (Propene) (Chemistry, Physical and theoretical)

BIRSHTEYN, T.M.; SOKOLOVA, Ye.A.

Internal rotation in polymer chains and their physical properties.

Part 18: Main optical anisotropy of isotactic polystyrene molecules.

Vysokom. soed. 1 no.7:1086-1093 J1 '59.

(MIRA 12:11)

1. Institut vysokomolekulyarnykh soedineniy AN SSSR.
(Styrene—Optical properties)

BIRSHTEYN, T.M.; PITTSYN, O.B.

Conformation, dimensions, and dipole moments of syndiotactic
macromolecules. Vysokom. soed. 2 no.4:628-629 Ap '60.

(MIRA 13:11)

(Macromolecular compounds)

(Dipole moments)

BIRSHTEYN, I. M.

To be submitted for the International Symposium on Macromolecular Chemistry, Montreal, Canada, 27 Jul - 1 Aug 1964.

USSR

- ADRIENKO, A. M.**, Institute of High Molecular Chemistry, Academy of Sciences USSR, Leningrad, jointly with **KHODAKOV, B. B.**, and **MAKIN, M.**, Institute of Chemistry, Moscow, U.S.S.R. - "Elasticity of cable lattice chains." (Group 2)
- BOLOKIN, Boris A.**, and **PIREX, A. V.**, Moscow, Institute of Fine Chemical Technology, Leningrad, USSR - "Intersection of polyethylene with sulphur" (Group 4-5)
- KALIN, Valentin A.**, Head, Laboratory of Colloidal Chemistry, Scientific Research Physico-Chemical Institute, Leningrad, USSR - "The formation of big crystal structures in polymers" (Group 2, invited lecture)
- PIREX, A. V.**, and **BOLOKIN, Boris A.**, Moscow, Institute of Fine Chemical Technology, Leningrad, USSR - "Polymerization of some epoxy compounds" (Group 3-5) (U.S.S.R.)
- MAKIN, M. M.**, **PIREX, A. V.**, and **ROZAK, L. B.**, Institute of Chemistry, Academy of Sciences USSR, Moscow - "On the mechanism of polymerization of allylamine" (Group 3-5)
- PIREX, A. V.**, All-Union Scientific Research Institute of Synthetic Rubber, Leningrad, USSR - "Temperature effect on polymer structure in dense polymerization by alkali metals" (Group 3-5)
- PIREX, A. V.**, and **MAKIN, M. M.**, All-Union Scientific Research Institute of Synthetic Rubber, Leningrad, USSR - "Study of structure in regular isoprene polymers" (Group 1)
- POPOV, I. Ya.**, **MOSEVICH, M. F.**, **MAKIN, M. M.**, and **PIREX, A. V.**, All-Union Scientific Research Institute of Synthetic Rubber, Leningrad, USSR - "Structure of molecular-weight distribution and properties of styrene-butadiene rubber depending on polymerization conditions" (Group 3-5)
- PIREX, A. V.**, **MAKIN, M. M.**, **POPOV, I. Ya.**, **MAKIN, M. M.**, and **PIREX, A. V.**, Scientific Research Physico-Chemical Institute, Leningrad, USSR - "Investigation of the mechanism of radiolysis of polymers containing quaternary atoms of carbon" (Group 4-5) (U.S.S.R.)
- PIREX, A. V.**, **MAKIN, M. M.**, **POPOV, I. Ya.**, **MAKIN, M. M.**, and **PIREX, A. V.**, Institute of High Molecular Chemistry, Academy of Sciences USSR, Leningrad, USSR - "Stereo-regularity and optical anisotropy of macromolecules (Group not specified)"
- PIREX, A. V.**, **MAKIN, M. M.**, **POPOV, I. Ya.**, **MAKIN, M. M.**, and **PIREX, A. V.**, Institute of High Molecular Chemistry, Academy of Sciences USSR, Leningrad, USSR - "The mechanism of the action of cotton cellulose polymerization according to the molecular weight" (Group not specified)
- PIREX, A. V.**, **MAKIN, M. M.**, **POPOV, I. Ya.**, **MAKIN, M. M.**, and **PIREX, A. V.**, Institute of High Molecular Chemistry, Academy of Sciences USSR, Leningrad, USSR - "On the kinetics of formaldehyde polymerization and polyformaldehyde degradation" (Group 3-5)

BIRSHTEYN, T.M.; VOROB'YEV, V.I.; PTITSYN, O.B.

Theory of mechanochemical manifestations. Part 1: Close
action in polyelectrolytes and mechanochemistry. Biofizika
6 no.5:524-533 '61. (MIRA 15:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Moskva
i Institut tsitologii AN SSSR, Leningrad.
(MACROMOLECULAR COMPOUNDS)
(ELECTROLYTES)

BIRSHTYN, T.M.; BUDTOV, V.P.; FRISMAN, E.V.; YANOVSKAYA, N.K.

Effect of the polymer composition on the optical anisotropy
of its molecules. Vysokom.sped. 4 no.3:455-462 Mr '62.
(MIRA 15:3)

1. Fizicheskiy institut Leningradskogo gosudarstvennogo
universiteta i Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Macromolecular compounds—Optical properties)

BIRSHTYN, T.M.

Theory of helix-coil transition in biopolymers. Part 1:
Helix-coil transitions in polypeptide chains under load.
Vysokom.sped. 4 no.4:605-612 Ap '62. (MIRA 15:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Peptides)

BIRSHEYN, T.M.; VOL'KENSHEYN, M.V.; GOTLIB, Yu.Ya.; PTITSYN, O.B.

Approximate method for the calculation of the optical anisotropies
of macromolecules. Vysokom.sped. 4 no.5:670-677 My '62.
(MIRA 15:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Macromolecular compounds--Optical properties)

B/190/63/005/002/021/024
B101/B102

AUTHORS: 51. Borisova, N. P.; Birshteyn, T. M.

TITLE: Conformations of isotactic polymers

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 2, 1963, 279-286

TEXT: A quantitative evaluation was made of the interactions in crystalline and in dissolved isotactic polypropylene, in poly-4-methylpentene-1, poly-3-methyl-butene-1, and in polyacetaldehyde, in order to determine the role of torsional vibrations and rotation isomerism in the statistical coiling of the chain. For crystalline polypropylene, the energy of the monomer links was calculated with a change of the angle of internal rotation between $-30^\circ < \psi_1 < 20^\circ$, $80^\circ < \psi_2 < 140^\circ$ (Fig. 1). The rotation of the branch about the $C_2 - R_1$ bond was likewise considered. For each conformation, the rotation angle ψ_1 was sought that corresponded to a minimum of the total energy of the system. This was calculated from $U(\psi_1, \psi_2, \psi_1) = 1.5 (3 - \cos 3\psi_1 - \cos 3\psi_2 - \cos 3\psi_1) + \sum_{i,k} U_{i,k}(x_{i,k})$, Card 1/4

8/190/63/005/002/021/024
B101/B102

Conformations of isotactic ...

where the first member describes the orientation effect of the bonds and the second member the steric interactions of the atoms. The data of L. Bartell (J. Chem. Phys., 52, 827, 1960) and T. Hill (J. Chem. Phys., 16, 399, 938, 1948) were considered for the interactions of non-bound C---C and H---H atoms. The calculation yielded a potential well with flat bottom and an energy of 2.5 kcal/mole with tetrahedral valency angles and of 1.6 kcal/mole with 114° valency angles. Thus the links are able to vibrate in a 20° interval of the angles ψ_1 and ψ_2 . The transition from

one conformation to the other is easy. In statistically coiled chains, the conformations $(0^\circ, 120^\circ)(0^\circ, 120^\circ)$, $(-120^\circ, 0^\circ)(-120^\circ, 0^\circ)$ and $(-120^\circ, 0^\circ)(0^\circ, 120^\circ)$ are possible; whereas the conformation $(0^\circ, 120^\circ)(-120^\circ, 0^\circ)$ is sterically unfavorable owing to the H_2 --- H_6 and

H_{R_1} --- H_{R_3} interaction. In solution, the polypropylene molecules form

right and left-handed helices somewhat distorted by twisting vibrations and containing ~15 monomeric units. The mean energy of the junction between the helices is 1.5 kcal/mole. For the monomer link of polyacetaldehyde $H(-CHCH_3-O-)_n$ the energy was calculated for different

Card 2/4

BIRSHTYN, T.M.; PTITSYN, O.B.

Effect of the interaction of adjacent charged groups on the
properties of polyelectrolytes. Ukr.fiz.zhur. 7 no.7:697-702
Jl '62. (MIRA 15:12)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.
(Electrolytes)

BIRSHTAYR, T. M., PITTSYN, O. B.

"Statistic Theory of Near order and Flexibility of Macromolecules."

report submitted for the Conference on Solid State Theory, held in Moscow, December 2-12, 1963, sponsored by the Soviet Academy of Sciences.

BIRSHTEYN, T.M.

Internal rotation in polymer chains and their physical properties.
Part 20: Conformations of isotactic macromolecules and their
properties in solution. Vysokom.soed. 5 no.11:1675-1683 N '63.
(MIRA 17:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

BIRSHTYIN, T.M.; PTITSYN, O.B.; SOKOLOVA, Ye.A.

Theory of polyelectrolyte solutions. Part 5: Short range
interaction of charged groups in stereoregular polyelectrolytes.
Vysokom. soed. 6 no.1:158-164 Ja'64. (MIRA 17:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

ACCESSION NR: AP4017632

S/0190/64/006/002/0224/0226

AUTHORS: Birshiteyn, T. M.; Ptitsy*n, O. B.

TITLE: Stereospecific effect of growing chain end upon polymerization of charged monomers

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 2, 1964, 224-226

TOPIC TAGS: syndiotactic addition, monomeric unit, stereospecific effect, isotactic addition

ABSTRACT: The probability of iso- and syndiotactic additions of a charged monomeric unit to the end of a charged chain of the type $(-CH_2-CHR-)_n$ has been calculated on the basis of the hypothesis of Fox, Good, and Fordham which states that the probability of iso- and syndiotactic addition of the monomeric unit to the end of a growing chain is determined by the free energies of the resultant chain on corresponding addition of the last monomeric unit. The calculations were performed using previously made evaluations of the interaction energies of adjacent and near adjacent charged groups in chains of the type $(-CH_2-CHR-)_n$. The results show that the isotactic addition is energetically more advantageous so that polymerization of dissociated electrolytes (e.g., alkali acrylates) should lead to considerable shift

Card 1/2

BIRSHTEYN, T.M.

Theory of helix-coil transitions in biopolymers; titration
curves of polynucleotides during the helix-coil transition.
Biofizika 7 no.5:513-522 '62. (MIRA 17:8)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

SUKHORUKOV, B.I.; MOSHKOVSKIY, Yu.Sh.; BIRSHTEYN, T.M.; LYSTSOV, V.N.

Optical properties and molecular structure of nucleic acids and their components. II. Spectroscopic study of the "coil-helix" transition in DNA at different temperatures and pH. Biofizika 8 no.3:294-300 '63. (MIRA 17:11)

1. Institut khimicheskoy fiziki AN SSSR, Moskva i Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

BORISOVA, N.P.; BIRSHTEN, T.M.

Conformation of syndiotactic polymers. Vysokom. soed. 6 no.7:
1234-1237 JI '64 (MIRA 18:2)

1. Leningradskiy gosudarstvennyy universitet i Institut vysokomolekulyarnykh soyedineniy AN SSSR.

"APPROVED FOR RELEASE: 06/08/2000

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APPROVED FOR RELEASE: 06/08/2000

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Card 2/2

BIRSHTEYN, T.M.; ANUFRIYEVA, Ye.V.; NEKRASOVA, T.N.; PTITSYN, G.B.;
SHEVELEVA, T.V.

Hydrophobic interaction and conformation transition in poly-
methacrylic acid. Vysokom. soed. 7 no.2:372-373 F '65.
(MIRA 18:3)

BIRSHTEYN, T.M.

Dimensions, dipole moments, and optical anisotropies of
syndiotactic vinyl macromolecules. Vysokom. soed. 8
no. 1:168-175 Ja '66 (MIRA 19:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
Submitted March 9, 1965.

BIRSHTEYN, V.

137-58-5-9953

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 153. (USSR)

AUTHOR: Birshteyn, V.

TITLE: Nucleonic Control in the Automation of Welding (Primeneniye radioaktivnykh izotopov dlya kontrolya svarki pri avtomatizatsii svarochnykh protsessov)

PERIODICAL: Tr. Konferentsii po avtomatiz. i mekhanizm. tekhnol. protsessov. Riga, 1957, pp 96-101

ABSTRACT: A method of γ flaw detection for seams made by automatic welding is described. The method was developed by the Riga Repair Shipyard and makes use of Ir¹⁹². The method is applicable to seams of large cross section and welded seams of thin plating.

B. V.

1. Seam welds--Inspection

Card 1/1

BIRSHTEYN, V.P.

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Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniya radioaktivnykh i stabil'nykh izotopov i ikhcheny v narodnuyu khozyaystvo i nauku Moscow, 1957.

Trudy... Mashinostroyeniye i priborostroyeniye (Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Machine and Instrument Manufacturing) Moscow, Izdatel'stvo AN SSSR, 1958. 350 p. 4,500 copies printed.

Sponsoring Agencies: USSR. Glavnoye upravleniye po ispol'zovaniyu atomnoy energii, and Akademiya nauk SSSR.

Editorial Board of Seti: V.I. Dikubchin, Academician (Resp. Ed.), M.M. Shumilovskiy (Deputy Resp. Ed.), Yu. S. Zaslavskiy (Deputy Resp. Ed.), L.M. Tatechenko, B.I. Verkhovskiy, S.I. Maslov, L.I. Petrenko and M.G. Zalevinskaya (Secretary).

Ed. of Publishing House: P.M. Belyanin; Tech. Ed.: T.P. Polonskaya. PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine- and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalitis are mentioned. References are given at the end of most of the papers.

Fakidov, I.O., and A.Ye. Puzinov (Institut fiziki Ural'skogo filiala AN SSSR - Institute of Physics, Ural Branch, Academy of Sciences, USSR). Defectoscopy of Very Thick Steel Products 331

Grigor'yev, K.M., and I.O. Fakidov (Uralvagonstav i Institut fiziki Ural'skogo filiala Akademii nauk SSSR - Uralvagonstav and Institute of Physics, Ural Branch, Academy of Sciences, USSR). Characteristics of Gamma Control and Radioscopic Technique for Composite Elements 339

Greshchinsk, M.F., and I.O. Fakidov (Institut fiziki metallor Ural'skogo filiala AN SSSR - Institute of the Physics of Metals, Ural Branch, Academy of Sciences, USSR). Study of the Blurring of Images of Defects During the Co-60 Gamma Radioscopy of Steel 342

Zhukov, O.M. (Ministerstvo sudostroyeniya i mashinostroyeniya SSSR - Ministry of the Shipbuilding Industry, USSR). Use of Soft-radiation Isotopes for the Control of Welding in Shipbuilding 344

Michelson, Y.O. (Mishchely sudovmontirnyy zavod - Ship Repair Works). Use of the Ir-192 Isotope at the Ship Repair Works 346

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Card 20/20

7-10-58

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^M
EIRSTEIN, Y. A.

"The role of internal secretion in the changes of body colour and migration of the eye pigments in crustaceans." (p. 152) by Birstein, J. A.

Vol.

SO: Advances in Contemporary Biology (Uspekhi Sovremennoi Biologii) /VI, No. 1 1937

BIPSTEIN, J. A.

"The Life in Caverns" (Ecological and Systematical Outline) (p. 385) by Birstein, J. A.

SO: Advances in Modern Biology, (Uspekhi Sovremennoi Biologii), Vol. XIII, No. 3, 1940

BIRSTEIN, J. A.

"Adaptation and evolution of cave animals." (p. 436) by J. A. Birstein

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XIV, No. 3, 1941

BIRSHTEYN, Ya. A.

"Relicts in Fresh and Salt Waters of the USSR," Sub. 9 Apr 47, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum.No.457, 18 Apr 55

BIRSHTEYN, YA. A.

Aug. 1947

USSR/Medicine - Marine Organisms
Medicine - Taxonomy

"Siberian Marine Asellidae," Ya. A. Birshteyn, Sci
Res Inst Zool, Moscow State U imeni M. V. Lomonosov,
4 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVII, No 4

Brief description of three new types of Asellus found
in Siberian waters, in vicinity of Lena River mouth
and Tsipo-Tsipikanskiye Islands: 1) Asellus (s.str.)
latiformis n.sp., 2) Asellus (s.str.) epicameralis
n.sp., and 3) Asellus (s.str.) hilgendorffi martynovi
n.subsp. Submitted by Academician I. I. Shmal'-
tzen, 11 Feb 1947.

53153

BIRSHTEYN, Ya. A.

Birshteyn, Ya. A. - "Side-floating fishes of Tadzhikistan," In symposium: Pamyati
Akad. S. A. Zornova, Moscow-Leningrad, 1948, p. 263-73 - Bibliog: p. 273

SO: U-3600, 10 July 53, (Letopis' Zhurnal 'nykh Statey, No. 6, 1949).

BIRSHTEYN, YA. A.

77T43

USSR/Medicine - Zoology
Medicine - Taxonomy

May 1948

"The Extent and Distribution of the Genus *Synurella*
(Crustacea, Amphipoda)," Ya. A. Birshteyn, Sci Res
Inst Zool, Moscow State U imeni M. V. Lomonosov, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 4

General discussion of subject with special reference
to classification difficulties. Describes two new
species in detail with sketches of distinguishing
features. Submitted 8 Mar 1948.

77T43

BIRSTEIN, YA. A.

"Problems of the Origin And Evolution Of Freshwater Fauna." (p. 119-140) by Eirstein, Ya. A.
(Moscow)

SO: PROGRESS OF CONTEMPORARY BIOLOGY (Us. Sovrem. Biol) Vol. XXVII 1949 No. 1 (Jan.-Feb.)

USSR/Biology - Zoology
Parasitology

11 Dec 49

"A Species, New to the USSR, of Aquatic Woodlice (Stenasellus) From Turkmen and Its Significance in the Zoogeography of Central Asia," Ya. A. Birshteyn, I. V. Starostin, Sci Res Inst of Zool, Moscow State U Imeni Lomonosov, 3 1/2 pp +

"Dok Ak Nauk SSSR" Vol LXIX, No 5

Until 1941, when 32 specimens were found at the source of the Khodzha-Kaynar in Kugitintan Mts (Karlyuk Rayon), the Asellus aquaticus messerianus Birstein had been found only at the lower end of

15212

USSR/Biology - Zoology (Contd)

11 Dec 49

the Atrek River, near Bol'shoye Delint Lake, Turkmen, and in Central Asia. Details this species, called Stenasellus asiaticus nov. sp. Its habitat is in fissures of submerged rocks. Fact that such early tropical forms as the mollusk Melanoides tuberculatus (dating from the Paleogene), the Indian leech Hemiclepsis marginata asiatica, and the Stenasellus asiaticus have been preserved at this source in Kugitintan is of extraordinary interest. Submitted by Acad D. V. Mal'vkin 24 Sep 49.

15212

BIRSHTEYN, Ya. A.

ZENKEVICH, L. A. BIRSHTEYN, YA. A.

Acclimatization. ...

"Acclimatization of Amur Fish" (Transactions of the Svertsov Institute of Animal Morphology, No. 5, 1951). Reviewed by Ya. A. Birshteyn, L. A. Zenkevich Zhur. Ob. biol. 13 No. 2 Mr-Ap 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952 Uncl.

GTRSPL Vol. 5-No. 1 Jan. 1952

Bershteyn, Y. A. (Scientific Research Institute of Soil Biology, M.V. Lomonosov Moscow State University). *Deposited from the Bering and Okhotsk Seas*, 1251-4

Akademiya Nauk, S.S.S R., Doklady Vol. 78, No. 6, 1951

Birahtin, Ya.A. and Vinogradov, L.G. (Institute of Biological Soils, M.V. Lomonosov
Moscow State University and All-Union Scientific Research Institute of Sea Fishery and
Oceanography). New and rare decipetal crustacea of the Okhotsk Sea and the Kurile
waters, 357-60

zhurnal Nauch. S.S.S.R., Zhivoty, vol. 79 No. 2, 1954

1. BIRSHTEYN, Ya. A. *Ref.*
2. USSR (600)
4. Crustacea
7. New data on the origin of phreatic fauna. Trudy Gidrobiol. ob-va, 4, 1952.

Moscow State University

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

BIRSHTEYN, YA.A.

"Fresh-water crustaceans (Asellota)."

Reviewed by WE. V. Borutskiy,
Zool. zhur. 31, no. 4, ~~1950~~ 1952

DIRSHTEIN, YA.A., Prof.

Crabs

History of a crab. Priroda 41, no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, DECEMBER 1952 ~~1952~~, Unclassified.

BIRSHTEYN, YA.A.

Subterranean Amphipoda of the Khosta-Gudauty region (Western Transcaucasia)
Biol. MOIP Otd. biol. 57 , no. 1, 1952

BIRSHTEYN, YA.A.

CRUSTACEANS

"Asellus (Mesoasellus) dentifer nov. sp., found in the basin of the Ussuri River"
Dokl. AN SSSR 84, no. 5, 1952

~~BIRSHTEIN~~, Ya.A.; SPASSKIY, N.N.

Benthonic fauna of the Caspian Sea before and after the introduction
of *Nereis succinea*. Mat. k pozn. fauny i flory SSSR. Otd. zool. no.33:
36-114 '52. (MLRA 10:9)

(Caspian Sea--Marine fauna) (Polychaeta) (Fishes--Food)

BIRSHTEIN, Ya.A.

Nutrition of Caspian fishes feeding on benthonic organisms (except sturgeons) in 1948-1949 and the ratio of *Hereis succinea* in their food. Mat. k pozn. fauny i flory SSSR. Otd. zool. no.33:115-144 '52.
(Caspian Sea--Fishes--Food) (Polychaeta) (MLRA 10:9)