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Foreign Documents Branch C I A Periodical Abstracts

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Number 42

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NOTE: All Russian periodicals listed below are available in Foreign Documents Branch, CIA. The Chinese periodical is available in Department of State.

Abstracted in this issue:

<u>Title</u>	Issue		Date
Russian Periodicals			
"Doklady Akademii Nauk SSSR, Novaya Seriya" (Reports of the Academy of Sciences of the USSR, New Series) Cards 1-13, 17, 18, 22-31, 34, 36-85, 88-100	1	No 1 No 3 No 6	Jan 1948 21 Jan 1948 Feb 1948
"Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya i Geofizicheskaya" (News of the Academy of Sciences of the USSR, Geography and Geophysics Series) Cards 32, 33, 35, 87, 101-104	Vol XII I	io 1	Jan/Feb 1948
"Promyshlennaya Energetika" (Industrial Energetics) Cards 14-16	I	io 2	Feb 1948
"Torfyanaya Promyshlennost"" (Peat Industry) Cards 19-21	Ŋ	io 2	Feb 1948
Chinese Periodical			

"Chin-yung Chou-pao" (Financial Weekly) Vol XVIII No 14 31 Mar 1948 Card 86

NOTE

In indexing these abstracts the following guides are used: MEDICINE - "Quarterly Cumulative Index Medicus," American Medical Association; CHEMISTRY - "Chemical Abstracts Subject Index," American Chemical Society; GENERAL - "Subject Headings for Technical Libraries," US Department of Commerce, Office of Technical Services.

Distribution

State	6
Army	24
Navy	30
Air Force	6
Library of Congress	5
AEC	5 3
RDB	2
CIA	16
FDB	20
Total	112

FDB Periodical Abstr	acts Scientific No 42
USSR/Chemistry - Cyclic Compounds 21 Jan 1948 Chemistry - Synthesis	USSR/Chemistry = Sulfonation 21 Jan 1948 Chemistry = Cycloalkanones
"Synthesis of Polycyclical Compounds. New Method of Producing Homologs of 1-, 2-Benzanthracene," B. M. Mikhaylov, T. K. Kozminskaya, Inst Normal and Pathol Morphol, Acad Med Sci USSR, 22 pp	"Polycycloketone Sulfates (Theory of Sulfonation)," A. M. Lukin, G. B. Zavarikhina, Inst Org Chem, Acad Sci USSR, 3 pp
"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 3	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 3
Authors developed method for producing 10-alkyl de- rivatives of 1-, 2-benzanthracene considerably sur- passing other methods for simplicity and final product of hydrocarbons. Method based on use of lithium or- ganic compound of 1-, 2-benzanthracene (II), produced by dual reaction of exchange between 10-bromine-1-, FDB 42T1	Finds that assertion of P. Pfeiffer on role of keton sulfates as intermediate product in sulfonation of these ketones by sulfuric acid does not correspond to experimental data and must be rejected. Sulfonation of polycycloketones takes place usually with high concentration of sulfuric acid and at relatively high temperatures. Submitted by Academician A. Ye. Poray- Koshits, 8 Oct 1947. FDB 42T2
USSR/Chemistry - Cyclic Compounds 21 Jan 1948 (Contd)	USSR/Chemistry - Peroxides, Organic 21 Jan 1948 Chemistry - Synthesis
2-benzanthracene (I) and n-butyllithium. Submitted by Academician A. I. Abrikosov, 8 Sep 1947.	"Methylcyclohexane Peroxide," K. I. Ivanov, V. K. Savinova, All-Union Thermotech Inst imeni F. E. Dzerzhinskiy, 4 pp
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 3
	Authors showed in previous article that it is diffi- cult to make decahydronaphthalene react with molecu- lar oxygen, but it reacts relatively easily with oxy- gen in the liquid phase under action of ultraviolet light, with formation of hydrogen peroxide I. To study behavior of other representatives of the series of cyclanes, particularly those containing alightic
FDB 42T1 42T1	FDB 42T3
USSR/Chemistry - Ethylenes, Polymerization 21 Jan 1948 Chemistry - Stereochemistry	USSR/Chemistry - Peroxides, Organic 21 Jan 1948 (Contd)
"Role of Stereochemical Factors in Polymerization Processes," V. V. Korshak, K. K. Samplavskaya, Inst Org Chem, Acad Sci USSR; Moscow Chemicotech Inst imeni D. I. Mendeleyev, 4 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 3	side chains, and peroxide compounds formed in this process, authors oxidized methylcyclohexane in liquid form with radiation by ultraviolet light. Report results of experiment. Submitted by Academician S. S. Nametkin, 23 Oct 1947.
Provides basis to conclude that stereochemical re-	
lationships are deciding factors determining the pos- sibility of polymerization of tri-, tetra, and some- times disubstituted ethylenes. Submitted by Academi- cian A. N. Nesmeyanov, 1 Dec 1947.	
7DB 42T4	FDB 42T3
JSSR/Chemistry - Crystallization 21 Jan 1948 Chemistry - Silica	USSR/Chemistry - Electrolysis Feb 1948 Chemistry - Anodes, Processes at
Influence of the Liquid Phase on Process of Crystal- lization of Silica," V. A. Bron, Ural Affiliate, All- Inion Sci Res Inst Fire Resistant Materials, 2 pp	"Effect of Various Cations on the Anode Process with Electrolysis of Their Chlorides," N. A. Izgaryshev, M. G. Khachaturyan, Corr Members, Acad Sci USSR, 3 pp
Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 3	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6
ts melting point, and, consequently, the mobility at	Gives results of study of the action of electrolysis, and polarization curves for lithium, magnesium, and barium chlorides, and shows causes of differences in the action of cations.
or any mineralizer is safe up to 1300-1350° C, after hich it drops sharply in the degree of formation of DB	

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RESTRÍCTED	FDB Periodical Abstra	cts Scientific No 42	RESTRICTED
USSR/Chemistry - Crystallization	and the second	USSR/Chemistry - Gramicidin Chemistry - Amines	Jan 1948
tridymite of Dinas. Dimensions of decrease. Submitted by Academici 13 Oct 1947.	f tridymite crystals an D. S. Belyankin,	"The Biologically Active Group in Gram P. Znamenskaya, P. A. Agatov, A. N. Be Inst Biochem imeni A. N. Bakh, Inst Mi Sci USSR, 4 pp	lozerskiy,
		"Dok Akad Nauk SSSR, Nova Ser" Vol Li	X, No l
		Records results of experiments to deter in Gramicidin S responsible for its ac particular attention to the free amine icidin S, and its biologic activity. ods for isolating the amine group. Fr icidin S treated with benzene or acted biologic activity. Submitted by Academ	stivity. Pays group in gram- Describes meth- inds that gram- elene loses its
FDB	42T5 Jan 1948	Oparin, 15 Sep 1947. FDB USSR/Chemistry - Luminescent Material	
USSR/Chemistry - Ethers Chemistry - Electric Moment	0an 1940	Chemistry - Zinc Sulfides	
"Dipole Moments of Halogen Displ bonic Acids," M. A. Luferova, Ya Acad Sci USSR, Inst Fine Chem Te osov, 32 pp	. K. Syrkin, Corr Mem ch imeni M. V. Lomon-	"New Type of Zinc Sulfide Luminophors man, A. A. Cherepnev, Phys Inst imeni Acad Sci USSR, 2‡ pp "Dok Akad Nauk SSSR, Nova Ser" Vol L	P. N. Lebedev,
"Dok Akad Nauk SSSR, Nova Ser" Describes results obtained from dipole moments of series of subs temperature of 25°. Electron po by refraction. Submitted, 12 No	the measurement of tances in benzene at larization determined	Recently zinc sulfide luminophors rep earth luminophors in practical uses f cence. Describes some advantageous p zinc sulfide luminophors permitting l phosphorescence. Submitted by Academ Vavilov, 5 Nov 1947.	or phosphores- roperties of ong periods of
	4218	FDB	42 T 9
FDB USSR/Chemistry - Dielectrics Chemistry - Barium Tetratit	Jan 1948	USSR/Chemistry - Oxygen Compounds Chemistry - Oxygen, Ions	Jan 1948
"Dielectric Properties of Barium Other Dielectrics of the TiC ₂ - E Skanavi, Phys Inst imeni P. N. I	Tetratitanate and aO Systems," G. I.	"Relationship of Oxygen Molecules to I. A. Kazarnovskiy, Corr Mem, Acad Sc	1 USSR, LAD
3 pp		"Dok Akad Nauk SSSR, Nova Ser" Vol I	IX, No 1
"Dok Akad Nauk SSSR, Nova Ser" Presents methods of dividing Tic groups on basis of their dielect X-ray pictures of polygraphic ma relation between the components	2-BaO dielectrics into ric permeability and terials referring to Simultaneously, upon	Submitted, 15 Nov 1947.	adruple moment
completion of this work by Skans ciates in the US published artic	le discussing analo-		
FDB	42710	FDB	42711
gous properties of barium tetrai	Contd) Jan 1948	USSR/Electricity Photoelectric Sensitization Condensers, Optical	21 Jan 1948
by Academician S. I. Vavilov, 1	3 Sep 1947.	"Use of Condenser Method in Study of Photoeffect of Sensitizers," Ye. Put Inst, 4 pp	the Internal seyko, State Opt
		"Dok Akad Nauk SSSR, Nova Ser" Vol	LIX, No 3
		Discusses applicability of condenser of some questions on the theory of p by organic dyes. Finds that use of plication of supplementary electrica makes it possible to increase photoe	method in study hotosensitization method with ap- l field, not only lectric sensi-
		tivity of semiconductors, but in num	ber of cases to 42T12
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USSR/Electricity Jan 194		USSR/Electricity (Contd)	21 Jan 1948
Frequency Measurements Mathematics, Applied		determine class of semiconductor in qu mitted by Academician A. N. Terenin, 1	estion. Sub- 0 Oct 1947.
"Construction of Frequency Variation Diagrams," A demician V. P. Nikitin, V. K. Turkin, N. P. Kunit 4 pp	ca-		
"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1			
Discusses construction of subject diagrams to ill trate relation of coefficients derived from diffe ential equations for variable frequency systems. Diagrams may be used in the test of cyclic freque variations having tendency to become stationary. mitted, 6 Nov 1947.	er-		
FDB 42T13	5	FDB	42T12
USSR/Electricity Feb 194 Industrial Equipment Transformers, Oil Filled	8	USSR/Electricity Dryers, Electric Infrared	Feb 1948
"Pyranol Transformers" 1 p		"Infrared Drying," I. M. Fedorov, Eng. "Dinamo" Plant imeni S. M. Kirov, 1 p	r, Cen Lab,
"Prom Energetika" No 2		"Prom Energetika" No 2	
Complains that certain industrial enterprises were supplied with transformers flooded with pyranol v out instructions for their operation. Discusses advantages of normal transformer oils. Gives def on use of pyranol and methods of starting up the transformers.	with- dis- tails	Claims that "Dinamo" plant is industr infrared drying. Describes construct naces, and includes diagrams showing KPDS-1Sh motor in a 6-kw lamp furnace	ion of lamp fur- heat curves of
FDB 42T1	h	FDB	42T15
T. 147		USSR/Electricity	Jan 1948
USSR/Electricity Feb 194 Furnaces, Electric Heating, Electric	40	Light - Measurements Photometry	
"Choice of a Rational System of Electric Furnace ing," B. S. Meshel', Eagr, 22 pp	Fir-	"Theory of the Flicker Method in Phot Mayzel", Illumination Eng Sec, All-Un Inst imeni V. I. Lenin, 22 pp	ometry," S. O. ion Elec Eng
"Prom Energetika" No 2		"Dok Akad Nauk SSSR, Nova Ser" Vol I	IX, No l
Discusses energetics of initial heating and the s continuous system. Concludes that furnaces usin system must be produced with small thermal capac and must admit a large forced injection.	ig this ity	Wide use made of flicker method for m inating power of light sources, whose ferent from color of the standardized Method makes no further allowances for color fields, after the flicker of va- ties becomes discernible. Submitted S. I. Vavilov, 19 Oct 1947.	o color is dif- l light source. or variations of arious intensi- by Academician
FDB 42T1		FDB	<u>42T17</u> Feb 1948
USSR/Electricity Jan 19 Fields, Electrostatic Cavitation	148	USSR/Engineering Peat Industry Water System	FOU 1940
"Magnitude of the Electrical Field in Cavities F by Supersonic Cavitation of a Liquid," G. L. Nat Lab Aerosols, Phys Chem Inst imeni L. Ya. Karpov $2\frac{1}{L}$ pp	tanson,	"Choice of Diemeters of Water Supply Savenko, Engr, 1 ¹ / ₂ pp "Torf Prom [®] " No 2	Pipes," I. V.
"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1 Ya. I. Frankel' states that the electric field i to uneven distribution of ions along walls of th	is due	Stresses importance of increasing was ply pipes and decreasing their diame- water supply conditions in certain pu- Tables show best diameters for the g	eat enterprises.
cavities formed. Author discusses flat surface disintegration, and explains functions in numero mathematical formulas. Submitted by Academician	of ous		
N. Frumkin, 25 Sep 1947. FDB 42T	18	FDB	42 T 19
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RESTRICTED	FDB Periodical Abstra	sta Scientific No 42	RESTRICTED
NEOTICE AND	Feb 1948	USSR/Engineering	Feb 1948
USSR/Engineering Peat Industry	F00 1940	Peat Industry	
Peat - Properties		Machines	
the first of the second se		"Peat Machines for Bog Developmen	t." G. D. Gorbuto-
"Analysis of the Relation between Ash Content, and Degree of Decom V. Rakhmanov, Candidate Geog Sci,	position of Peat," V.	vich, 3 pp	
		"Torf Prom" No 2	2011 <u>- 1</u> 000 - 10000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000
"Torf Prom"" No 2		Describes various types of peat n	machines, concluding
Gives mathematical formulas to de value, ash content, and degree of peat, and results of experiments peat.	f decomposition of	that machines working in bogs sho as powerful electric truck tracto cavational work.	ould be constructed
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FDB		USSR/Engineering	Feb 1948
USSR/Engineering Hydrology Mathematics, Applied	Jan 1948	Petroleum Industry Emulsifiers, Oil	
"Basic Equation of Consolidation V. A. Florin, All-Union Sci Res	of an Earth Medium," Inst Hydroeng imeni B.	"Emulsifiers of the Emba Oil Emu kovskiy, Cent Sci Res Lab, Kazakh	stan Oil Union, 2 pp
Ye. Vedeneyev, 3t pp		"Dok Akad Nauk SSSR, Nova Ser"	Vol LIX, No 6
"Dok Akad Nauk SSSR, Nova Ser"		Describes extraction methods of natural oil emulsions, and gives	emulsifiers from details of experi-
Gersevanov and others studied va rences of the consolidation of a medium, treating it as a two-pha basic facts which must be establ plane and extended problem of co	water-soaked earth as system. Describes ished to solve the	ments showing high stability of Submitted by Academician P. A. R	Emba oil emulsions.
plane and extended problem of co phenomenon of contraction or exp	pansion during period		42 T 23
FDB and an and a second second second	42T22	FDB	
USSR/Engineering (Contd)	Jan 1948	USSR/Engineering Metallurgy, Ferrous	Feb 1948
when the earth medium, dependent	on its own weight,	Austenite	
is acted upon by some outward for the pressure regime. Submitted Leybenzon, 12 Sep 1947.	by Academician L. S.	"The Question of Stabilizing Sup P. P. Petrosyan, 22 pp	percooled Austenite,"
		"Dok Akad Nauk SSSR, Nova Ser"	Vol LIX, No 6
		Establishes relation between the sitic phase with isothermic supp	port and the duration
		of delay in conversion. Shown to clarifying the stabilization of	a supercooled auste-
		nite.	
THE	42 T 22	FDB	42724
FDB USSR/Geology	21 Jan 1948	USSR/Geology	21 Jan 1948
Oceanography Petroleum		Tectonics	
		"Regional Structures Controlling antimonic Mineralization of Sou	g the Mercurial-
"Dissolved Organic Matter and I imentary Layers," V. G. Datsko, Black Sea Inst Fishing Ind and	Lab Hydrochem, Azov-	Sinitsyn, 5 pp	•
•		"Dok Akad Nauk SSSR, Nova Ser"	Vol LIX, No 3
"Dok Akad Nauk SSSR, Nova Ser"		Genesis and configuration of th zone held to be dependent upon	e Southern Fergana the structure of the
Internal sea basins, particular high concentration of organic m	atter in the water,	first order: Upper Paleozoic de Latitudinal course of the mercu	pression and upneavar.
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 "Differentiated Gabbro-diabase Intrusion of the Ehete Glubokoys Region of Taymyr Peninsula," M. Ye. Yakor- lers, A pp "Dok Akad Nauk SSER, Hova Ser" Vol LIL, No 5 Thtrusion contains six layers of gabbro diabase: 1) prismatio-cormular, 2) prismatic-ophitio, 3) Poiltli- tio-ophitio, 4) picrit, 5) tartise, and 6) contact. Describes each in detail. Submitted by Academician D. S. Belyankin, 19 Nov 1947. "Betward Cancersen," A. P. Lebedev, Inst Geol Sci, Acc Sci USSER, 4 pp "Dok Akad Nauk SSER, Hova Ser" Vol LIL, No 1 Divides diabase formations into several groups on the sevents in the Satt of geologic and petrographic characteristics. Describes characteristics of 24 diabase. Obtains results by complete and partial chamical interpretation of the Adhano-Prilapteky Range)," M. Zaridze, N. F. Tatrishvili, 22 pp "Dok Akad Nauk SSER, Nova Ser" Vol LIL, No 1 Describes and seposite of the Tealkinskiy region. In 1956, Zheltor stated that this lave is of brenkyranti- cinal or brenkyrandial origin. Oires results of 1946 argedition by authors into the Tealkinskiy region. In that these lave deposites were of the Nindal or Mindal Riss glacial egoobs. Submitted by Academician D. S. PHE "Dok Akad Nauk SSER, Kova Ser" Vol LIL, No 1 Describes came costile result diators into the Tealkinskiy re- gion. Describes came costile result diators into the Tealkinskiy re- gion. Describes came costile result diators into the Tealkinskiy re- gion. Describes came costile result diators into the Tealkinskiy re- gion. Describes came costile result diators into the Tealkinskiy re- gion. Describes came costile result diators into the Tealkinskiy re- gion. Describes came costile result diators into the Tealkinskiy region. Describes came costile result diators are the strate doposities. The thind of the fast sevence of the Nindal or Mindal Riss glacial egoobs. Submitted by Academician D. S. PHE	FDB	42125	FDB	42126
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Permafrost Regions," V. P. Dadyki Inst imeni V. A. Obruchev, Acad S	n. Frozen Soila Stud	In Strawberries (Fragaria Bucharica charov, Ye. K. Nizkovskaya, Plant H	n)," K. Ye. Ov- "hysiol Inst imeni
rormarrose regions," V. P. Dadyki	n, Frozen Soils Study ci USSR, 4 pp	In Strawberries (Fragaria Bucharica charov, Ye. K. Nizkovskaya, Plant J K. A. Timiryazev, Acad Sci USSR, 1	l)," K. Ye. Ov- Physicl Inst imeni pp
Inst imeni V. A. Obruchev, Acad S	n, Frozen Soils Study ci USSR, 4 pp cl LIX, No 3 at the root system s of constantly cold ely in the surface of e of adaptive vari- to cold soils, from ce lavers of the soil	In Strawberries (Fragaria Bucharica charov, Ye. K. Nizkovskaya, Plant H	h)," K. Ye. Ov- Physiol Inst imeni pp LLX, No 3 f cultivated straw- n treated with Authors made simi- es growing in the rations of 2-, h-

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RESTRICTED	FDB Periodical Abst	racts Scientific No 42	RESTRICTED
USSR/Medicine - Plants (Contd)	21 Jan 1948	USSR/Medicine - Fruits (Contd)	21 Jan 1948
sprouts into the permafrost laye roots alive. Submitted by Acade 29 Oct 1947.	r, and still keep its mician V. A. Obruchev,	n-butyric acid, and X -naphthyl aceta substances. Results showed that in Fragaria bucharica, functioning only usual conditions, can be made to pro- use of growth substances. Submitted N. A. Maksimov, 15 Nov 1947.	such plants as with pollen in duce fruit with
FDB	42 T 45	FDB.	42146
USSR/Medicine - Clover Medicine - Seeds	21 Jan 1948	USSR/Medicine - Plants Medicine - Nitrogen	21 Jan 1948
"Influence of 2-, 4-Dichloropheno Formation of Seeds in Clover," B Ivanovsk Oblast Experimental Farm	P. Sokol skeve	"Effect of Phosphate and Nitrogen Sta Plants," O. F. Tuyeva, S. A. Samoylor Inst imeni K. A. Timiryazev, Acad So:	a. Plant Physiol
"Dok Akad Nauk SSSR, Nova Ser" V	ol LIX, No 3	"Dok Akad Nauk SSSR, Nova Ser" Vol 1	LIX, No 3
Reports laboratory and field expe 1947 on the influence of growth a formation. Three-year growth of experiment with 2-, 4-dichlorophe growth substance. Calculation of fore introduction of growth subst of 110 - 120 per square meter, th	ubstances on seed red clover chosen for noxy acetic acid as number of heads be- ance showed average	Tissue of phosphate- and nitrogen-sta showed a high capacity to absorb and ments they lacked. Tissues of the ro starved plants acquired not only thes but very great capacity of desorption pounds. Accumulation of ammonia nitr	assimilate ele- oct systems of e properties, of these com- ogen in tissues
FDB	42T47	of leaves developed as specific pecul FDB	
USSR/Medicine - Clover (Contd)	21 Jan 1948	USSR/Medicine - Plants (Contd)	42748
for third year of growth. Heads their form after introduction of Number of seeds per head of cloves mately 34.1%. Submitted by Acades ov, 16 Nov 1947.	of clover changed growth substance. r increased approri-	phosphate starvation. Submitted by A Maksimov, 15 Nov 1947.	21 Jan 1948 cademician N. A.
FDB	42 T 47	FDB	110
USSR/Medicine - Infusoria Medicine - Respiration	21 Jan 1948	USSR/Medicine - Reproduction Medicine - Fish	42T48 21 Jan 1948
"Change of Intensity of Respiration Bursaria Truncatella in the Interv visions," V. V. Barbarin, L. M. So State Pedagogical Inst imeni A. I.	al between Two Di-	"Material on the Biology of Reproduct: Pseudogudgeon Pseudogobio Rivularis (1 Cyprinidae)," V. D. Lebedev, Zool Inst U imeni M. V. Lomonosov, 3 pp	Bas.) (Pisces.
"Dok Akad Nauk SSSR, Nova Ser" Vo	1 LIX, No 3	"Dok Akad Nauk SSSR, Nova Ser" Vol Li	I, No 3
Change of respiration in infusoria ods between the two divisions show ing change in metabolism of the ce clusion that division of the cell process depending only upon the br	s regularly repeat- 11, and permits con- is not a mechanical each in a certain	Presents data on breeding conditions of gobio rivularis. Observations made or 90 miles below Khabarovsk in 1947. De eggs, and their period of development Submitted by Academician L. S. Berg, 2	the Amur River escribes nest, in detail.
mass of protoplasm and nucleus, bu	o onac in a given		•
FDB	42T49	FDB	42 T 50

	Periodical Abstr	acts Scientific No 42	RESTRICTE
JSSR/Medicine - Infusoria (Contd)	21 Jan 1948	USSR/Medicine - Nervous Systems Medicine - Atropine	21 Jan 194
case the cell goes through a specific intogenesis. Submitted by Academician gauzen, 21 Oct 1947.		"Elimination of the Atropine Action of on the Central Nervous System," Ye. B. Physiol Lab, Moscow State Pedagogical I. Lenin, 4 pp	Babskiy,
		"Dok Akad Nauk SSSR, Nova Ser" Vol LI	X. No 3
		Question of atropine action on the effi- choline has important significance in mediatory role of acetylcholine in the system. Question studied and two seri- ments conducted. In first series, aut effect of atropine on changes in the c	study of the central nerv es of experi- hors studied
DB	42149	FDB	42151
SSR/Medicine - Cold, Effects	21 Jan 1948	USSR/Medicine - Nervous Systems (Conte	
Medicine - Frogs Condition of Vertebrates in Freezing, Inst Experimental Physicl and Therapy, Wealth, USSR, 4 pp Dok Akad Nauk SSSR, Nova Ser" Vol LI	Ministry of	motor zone of cortex of the large half caused by introduction of acetylcholin ond series, atropine action on changes electrical activity of nerve centers of the influence of acetylcholine. Submit mician Ya. O. Parnas, 25 Oct 1947.	e, and in sec of spontaneo f frogs due t
dult frogs (Rana temporaria and Rana ected to freezing in experiment. Fre lata from observations under following condition of vertebrates in freezing, ce formation in freezing vertebrates, eristics of temperature curve of the rertebrates. Submitted by Academician auzen, 4 Nov 1947. DB	sents extensive headings: 1) 2) process of and 3) charac- body in freezing	FDB	42151
SSR/Medicine - Onions	Feb 1948	USSR/Medicine - Insects	Feb 194
Medicine - Hormones Effect of Heteroauxine upon Colloidoc ies of the Protoplasm of Onion Cells, eva, Agr Acad imeni K. A. Timiryazev, Dok Akad Nauk SSSR, Nova Ser" Vol LI	"L.V.Mozha- 4 pp	Medicine - Spermatogenesis "Achromatic Apparatus in the Spermogene Orthoptera," L. S. Peshkovskaya, P. I. Cytology, Histology, and Embryol, Acad "Dok Akad Nauk SSSR, Nova Ser" Vol LD	Zhivago, Ins Sci USSR, 4
escribes experiments carried out to a microscope evident changes in a cell nder the influence of heteroauxine. n tabular form. Submitted by Academi faksimov.	taking place Gives results	Discusses preliminary data obtained as ing acid hydrolysis in the spermatogene- tera. Used about 15 types belonging to idae, Locustidae, and Gryllidae family for experiments. Submitted by Academic Orbeli.	esis of Ortho o the Acrid- as material
DB	42 T 53	FDB	42751
SSR/Medicine - Cells Medicine - Staining	Гөр 1948	USSR/Medicine - Plants Medicine - Reproduction	Feb 191
Problem of the Diffused Coloring of a asic Vital Dyes," N. L. Fel'dman, Lab Mperimental Med, Acad Sci USSR, 12 pp	Cytology, Inst	"Problem of Controlling Plant Propagat: Miryuta, 3 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LL	
Dok Akad Nauk SSSR, Nova Ser" Vol LI mamines question of overcoming the fa yes poison a cell and paralyse its gr apabilities, and that physicochemical iffused dyes are such that they canno	ct that diffused anular-forming qualities of	Describes experiments that led to form blooms in female plants of the Cannabi applying conditions found in a short de hours. Submitted by Academician N. A.	ation of male s species by ay of 10-12
ranules.			
DB	42 T 55	FDB	42156

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	RESTRICTED FDB Periodical Abstr	acts Scientific No 42 RESTRICTED
	USSR/Medicine - Alkalosis Feb 1948 Medicine - Onions	USSR/Medicine - Plants - Diseases Feb 1948 Medicine - Tobacco
	"Alkylation of the Gene Molecule," I. A. Rapoport, Inst Cytology, Histology and Embryol, Acad Sci USSR, 4 pp	"Effect of Length of Day upon Reproduction of the Tobacco Mosaic Virus in Tissues of Hybrid Tobacco," K. S. Sukhov, A. M. Vovk, Inst Genetics, Acad Sci
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6	USSR, 2 [±] pp
	Gives in detail experiments showing the frequency of lethal mutations in a semichromosome and under the in- fluence of three alkylating reagents. Submitted by Academician L. A. Orbeli.	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6 Describes experiments confirming previous relation established by authors between synthetic activity of proteases in hybrid tobacco tissues and reproduction speed of the tobacco mosaic virus in them.
	FDB 42T57	FDB 42T58
	USSR/Medicine - Beets Feb 1948 Medicine - Fungi	USSR/Medicine - Birds Feb 1948 Medicine - Reproduction
	"Protective Reactions in Beet Foliage Affected by Cercospora Beticola," Ya. Ye. Ellengorn, Ye. G. Gik- ashvili, Lab Remote Hybridization, Acad Sci USSR, 32 pp	"New Data on Biology and Propagation of Birds in South Ussuri Kray," K. A. Vorob'yev, Oriental Base, Acad Sci USSR, 4 pp
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6
	Describes experiments designed to study changes pro- duced in the tissues of beet foliage by the fungus Cercospora Beticola, and physiologic conditions of	Lists 12 birds, with habits and breeding character- istics, observed during recent ornithologic expedi- tions in South Ussuri Kray.
	cells affected by cercosporiosis.	
	FDB 42T59	FDB 42T60
•	USSR/Medicine - Mosquitces Feb 1948 Medicine - Stigmata	USSR/Medicine - Cells, Nuclei Feb 1948 Medicine - Proteins
	"Functional Adaption of Abdominal Stigmata in Mosqui- toes (Sem. Culicidae, Diptera)," O. N. Vinogradskaya, Inst Malaria, Med Parasitology and Helminthology, Acad Sci USSR, 3 pp	"Nucleoproteins and Reactivity of the Core," A. N. Trifonova, Leningrad State Stomatological Inst, 32 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6	Examines question of what changes an interkinetic
	Establishes differences in the form of poststigmal cells of abdominal stigmata in certain types of stig- mata on one hand, and certain types of Anopheles and Aedes on the other.	core, i.e., physiologically active, undergoes with various actions of solutions of carbamide and chlo- ral hydrate on the cell. Submitted by Academician I. I. Shmal'gauzen.
	Actes on the Sther.	
	FDB 42T61	FDB 42T62
	USSR/Medicine - Pituitary Body Jan 1948 Medicine - Drugs, Effect	USSR/Medicine - Fish Jan 1948 Medicine - Larva, Growth
	"Comparison of the Goitriferous Action of Sulfamides and Thiouracil in Experiments on Chicks," A. A. Voyt- kevich, Kazakh Med Inst, Alma-Ata, 4 pp	"The Daily Rhythm of the Growth of the Carp Larvae (Cyprinus Carpio L.)," V. I. Olifan, Inst Cytology, Histology and Embryol, Acad Sci USSR, 2 pp
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1
	Various conclusions referring to activity of the hypo- physis. Experiments on hypophysis tissues of various animals showed varying amounts of thyrotropin. Birds showed lowest content. Chicks gave best reactions to sulfamides. Records experiments and results. Sub-	Describes studies conducted to determine physiology of fish larva, and to establish development of larvae. Submitted by Academician L. A. Orbeli, 19 Sep 1947.
	mitted by Academician L. A. Orbeli, 2 Sep 1947.	
,		FDB 42T64

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		racts Scientific No 42 RESTRICTED
	USSR/Medicine - Nervous System, Sympathetic Jan 1948 Medicine - Calcium	USSR/Medicine - Leaves Jan 1948 Medicine - Photosynthesis
	"Microphysiological Study of Peculiarities of Secre- tion of Calcium Ions in the Heart in Irritation of Sympathetic Nerves," Corr Mem, Acad Sci USSR; Kh. S. Koshtoyants, I. A. Keder-Stepanova, V. A. Shidlowskiy, Lab General and Comparative Physiol, Moscow State U imeni M. V. Lomonosov, 22 pp	"Role of Leaves in the Photoperiodic Reaction of a Long Day Flant," M. Kh. Chaylakhyan, G. A. Samygin, Plant Physiol Lab, Plant Physiol Inst imeni K. A. Timiryazev, Acad Sci USSR, 3t pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1 Experiments conducted to explain problem of which form and where, according to the individual histologic structure of the myocardium, does the separation of ions in a medium take place. Submitted, 13 Nov 1947.	Gives results of experiments conducted to confirm
	FDB 42T65	FDB 42T66
	USSR/Medicine - Bone, Regeneration Jan 1948 Medicine - Hormones, Sex	USSR/Medicine - Nucleins Jan 1948 Medicine - Cells, Division
	"Influence of the Ser Hormone on Regeneration of Bones," L. F. Berezkina, Lab of Histogenesis, Inst Evolutionary Morphol, Acad Sci USSR, 34 pp	"Cytophysical Distinction between Amitosis and Mito- sis," G. Roskin, M. Struve, Moscow State U imeni M. V. Lomonosov, 22 pp
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1
	Castration slows the process of bone regeneration. Administration of sex hormones to castrated patients overcomes the bone regeneration slowing effect of castration. Administration of estrone to a normal male did not produce any stimulating effect on regen- eration of bones of mice. No qualitative differences noted in any of the experiments conducted. Submitted by Academician I. I. Shmal [®] gauzen, 24 Sep 1947. FDB 42T67	Basic object: Determine role of the cytoplasmic nucleic acid in cells, divided amitotically. Great difficulty experienced in recreating this division in laboratory conditions. Submitted by Academician I. I. Shmal [®] gauzen, 15 Sep 1947. FDB 42T68
•	USSR/Medicine - Almonds Jan 1948	7777
•	Medicine - Cells "Karyotip of Almonds," A. G. Araratyan, Cytology Sec, Inst Plant Genetics, Acad Sci USSR, 3 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1 Gives results of studies on two types of almonds: wild	 USSR/Medicine - Plants Jan 1948 Medicine - Enzymes, Adsorption of "Effects of Temperature Variation on Adsorption of Invertases by the Tissues of Higher Plants," N. M. Sisakyan, T. P. Verkhovtseva, Inst Biochem imeni A. N. Bakh, Acad Sci USSR, 22 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1
	Anygdalus Fenzliana (fritsch) and cultivated Anygdalus communis L. Specific studies conducted on the nuclear form of the somatic cells. Drawings show karyotips of the wild and cultivated almond. Submitted by Acade- mician N. A. Maksimov, 15 Oct 1947.	Gives results of laboratory experiments to determine character of those changes taking place in regard to adsorptive ability of plant tissues under various temperature conditions. Increased osmotic pressure increases the adsorption of tissues. Submitted by Academician A. I. Oparin, 9 Sep 1947.
	FDB 42T69	FDB 42T70
	USSR/Medicine - Plants Jan 1948 Medicine - Nicotine "Demethylation of Nicotine in a Plant Cell," G. Il'in, Inst Biochen immid. N. Bubb Audo 2010	USSR/Medicine - Glycogen, In Liver and Jan 1948 Muscle Medicine - Albumin
	Inst Biochem imeni A. N. Bakh, Acad Sci USSR, 34 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1 Reports first results of experimentally commune out	"Absorption Spectrum of a Union of Glycogen with Al- bumin," Ye. L. Rozenfel'd, Kh. M. Ravikovich, Lab Physiol Chem, Acad Sci USSR, Inst Biol and Med Chem, Acad Med Sci USSR, 22 pp
- - - - - - - - - - - - - - - - - - -	Reports first results of experimentally carrying out that complex process taking place in the leaves of Nicotiana glutinosa and amphidiploida., i.e., transfer of nicotine into nornikotin. However, Il'in was able to show only that the N-CH, group is the most active and that nicotine can also take very active part in the cycle of biochemical changes in the plant cell. Submitted by Academician A. I. Oparin, 22 Sep 1947. FDB 42T71	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1 Studies conducted by means of spectra to determine the union of muscle glycogen with muscle albumin. Comparisons made of absorption spectra in the ultra- violet range of muscle albumin (myocene and nyogene) with absorption spectra of the union of albumin with muscle glycogen. Submitted by Academician Ya. 0. Parnas, 25 Sep 1947. FDB 42T72

	RESTRICTED FDB Periodical Abstra	acts Scientific No 42 RESTRICTED
	USSR/Medicine - Sterility Jan 1948 Medicine - Flies	USSR/Medicine - Heredity, Mechanism Jan 1948 Medicine - Flies
	"Sterility of Descendents of Heterospermous Species of Dorsophila Melanogaster," M. M. Kamshilov, Lab Phenogenesis, Inst Evolutionary Morphol imeni A. N.	"Distribution of High Mutability in the Drosophila Melanogaster Population," N. D. Duseyeva, 3 pp
	Severtsov, Acad Sci USSR, 27 pp	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1 Fifty-four experiments conducted on 11,715 cultures to determine if longevity characteristics transferred through the male as well as the female. Results ob- tained confirmed the hypothesis of mutational effect of heterosperms. Submitted by Academician I. I. Shmal'gauzen, 23 Sep 1947.	Studies over long period showed that average is one yellow male for each 4,000 normal males in Drosophila melanogaster population. Presents some facts ex- plaining reason for this 1:4,000 variation in the fly population. Submitted by Academician L. A. Or- beli, 19 Sep 1947.
		FDB - 42T74
	FDB 42T73	
	USSR/Medicine - Embryology Jan 1948 Medicine - Frogs	USSR/Medicine - Plants 21 Jan 1948 Rubber
	"Resistance of the Bud of the Rana Temporaria to Harm- ful Agents at Different Stages of Development," F. Gurevich, Lab Growth Dynamics of an Organism, Inst Ex-	"Is Rubber Consumed in Kok-Saghyz?" S. M. Mashtakov, Sci Res Inst Natural Rubber, 4 pp
	perimental Med, Acad Med Sci, Leningrad, 3 pp	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 3
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1	Shows that in discussion of physiological role of rubber hydrocarbons the viewpoint that polyprene in
	Describes 16 and 32 layers of blastomeres, the blas- tula, the morula, and early gastrula. Does not dis- cuss the matter of reaction mechanisms of phytonoides, however, does mention that this reaction cannot be classed as osmotic action. Submitted by Academician I. I. Shmal'gauzen, 18 Sep 1947.	plants is reserve nutrient substance is unconvincing. Viewpoint becomes even less tenable when demonstrated by study of the course of biochemical processes tak- ing place in the roots of a 2-year kok-saghyz plant, without taking account of its biological properties. Rubber hydrocarbons are not consumed in the process
	FDB 42T75	FDB 42176
	USSR/Medicine - Heredity Jan 1948	USSR/Medicine - Plants (Contd) 21 Jan 1948
•	Medicine - Flies "Physiological Difference between Two Populations of Dorsophila Melanogaster," R. V. Khesin, Zool Inst, Moscow State U imeni M. V. Lomonosov, 4 pp	of normal life activity of the kok-saghyz and not a reserve nutrient substance. Submitted by Academician N. A. Maksimov, 22 Oct 1947.
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1	
	Studies conducted to answer four problems: 1) Are there physiological variations in Drosophila melano- gaster? 2) What is the percentage incidence of such differences? 3) How long are these differences pre- served in laboratory propagation of a line? 4) Is there a similar internal divergence in males and fe- males? Results showed that the difference between	
	FDB 42177	FDB 42T76
	USSR/Medicine - Heredity (Contd) Jan 1948	USSR/Medicine - Hibridity Jan 1948 Medicine - Flies
	individual Drosophila melanogaster is greater in males than in females. Submitted by Academician I. I. Shmal ^o gauzen, 17 Sep 1947.	"Elimination of a Chromosome in Intertype Hybrids of Drosophila and the Problem of Subsequent Hybridiza- tion," N. N. Sokolov, Inst Cytology, Histology, and Embryol, Acad Sci USSR, 4 pp
		"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1
		Results obtained from genetic and cytologic analyses, for the purpose of determining indicator for elimi- nation of chromosomes. However, data obtained can be used in referring only to dot-type chromosomes of the VI pairs. More complete report will be published
		in later article. Submitted by Academician L. A. Orbeli, 19 Sep 1947.
•	FDB 42T?? - 1	FDB 42T78
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•	RESTRICTED FDB Periodical	Abstra	cts Scientific No 42 RESTRIC	TED
•	USSR/Medicine - Plants Jan 19 Medicine - Reproduction	48	USSR/Medicine - Wheat Jan : Medicine - Photosynthesis	L948
	"Connection between Reproductive Development and Survival of a Perilla in Conditions of Darkness, O. Kazaryan, Bot Inst, Acad Sci Armenian SSR, 3	•• V •	"Length of the Light Stage in Standard Types of a mer Wheat and Peculiarities of Their Form Develop during a Short Day," K. V. Livanov, Krasny Kut S Selective Breeding Sta, Krasny Kut, Saratov Obla	ment tate
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1 Reports results of experiments conducted in 1940 red-leafed perilla, showing more clearly the rel		21 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1	
	between reproductive development and degree of mance to long periods of darkness. Submitted by emician N. A. Maksimov, 1 Sep 1947.	esist-	Describes experiments conducted to determine effo of short day on summer wheat, particularly in re- to development of form during short days. Submi- by Academician N. A. Maksimov, 3 Oct 1947.	zard
	FDB 42T	9	FDB 42	r8 0
	USSR/Medicine - Plant Parasites Jan 19 Medicine - Parasites	48	USSR/Metals Feb : Magnesium Compounds	1948
	"Use of Growth Substances for Control of Broom H	ane	Glass	-
	(Orobanche Aegyptiaca Pers), "K. Ye. Ovcharov, I Physicl Inst imeni K. A. Timiryazev, Acad Sci US 24 pp	lant	"Process of Glass Formation When Heating a Four- poment Magnesium Mixture," I. I. Kitaygorodskiy, D. Tykachinskiy, Chemicotech Inst imeni D. I. Med leyev, 4 pp	I.
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1		"Dok Akad Nauk SSSR, Nova Ser" Vol LIK, No 6	
	Experiments conducted to find substance to contribroom rape. Good results obtained from use of a substances on grass rust led author to attempt using similar substances to cure broom rape. Studies and experiments conducted in tomato fields of the Farm imeni Kirov, Zheleznodorozh Region, Staline FDB 4276	rowth 8- lies le lbad	Gives experimental data to prove that in four-connent mixture, reactions of dissociation of silic precipitation carbonates and of liquifaction beg earlier, proceed more energetically and end at L temperatures than in three-component sodium-calc mixture. FDB 42	ate in ower
,	USSR/Medicine - Plant Parasites (Contd) Jan 19		USSR/Metals Jan 1	1948
	Oblast, Tadzbik SSR. Submitted by Academician N Maksimov, 15 Nov 1947.		Ore Deposits Iron Ores "Iron Ore Deposits in the Motmos-Doschatoye Valle of the Vyksinskiy Region, Gorkiy Oblast," L. M.	
			Miropol'skiy, G. L. Miropol'skaya, 22 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No l	
			Presents 14 points of interest regarding the iron	1
			ore deposits of the Motmos and Doschatoye Valley gions. Point made of finding clay-silt rocks ca "sinik" in the iron ore deposits, and that in fu surveys it will aid greatly to note occurrence of	re- lled ture
			such "sinik." Submitted by Academician D. S. Be	1-
	FDB 42TE			183 1018
	USSR/Metals Jan 19 Ore Deposits . Iron Ores	948	USSR/Metals Feb. Spectrum Analysis Iron	1940
	"Iron Ore Deposits in the Karelo-Finnish SSR," H Khazanovich, 4 pp	C. K.	"Method of Spectral Analysis of Sulfide and Oxid (Iron and Manganese) Ores," L. N. Indichenko, La Spectral Analysis, Inst Geol Sci, Acad Sci USSR,	e b of
	"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1	anet	2 [±] pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 6	
	Generally describes iron-deposit region lying sh distance north of Gimol'skiy Lake, in the genera 62-53 to 63-15 North and 32-00 to 32-35 East. A surveyed in 1945-1946 by means of aerial photogr	l area rea	Describes method of spectral analysis of ores gi true spectrograph of the analyzed substance with	ving
	Submitted by Academician D. S. Belyankin, 27 Jun	19 47 .	deforming its composition, and showing more exac intensity relations of highly volatile and infus components.	t
	FDB 42TS	34	FDB '42	T85
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	FDB Periodical Abst:		CHARLES CHARLES
CHINA/Nuclear Physics - Uranium Nuclear Physics - Thorium	31 Mar 1948	USSR/Nuclear Physics - Cosmic Rays Nuclear Physics - Trajectories	Jan/Feb 1948
"Regulations on Control of Uranium Yüan, 1 p "Chin-yung Chou-pao" Vol XVIII, No		"Determining the Trajectory of Cosmic Fields in Media with Varying Speeds," Inst Theoretical Geophys, Acad Sci USS	I. S. Berzon.
	and the second	"Izv Akad Nauk SSSR, Ser Geog i Geofiz	" Vol XII, No
Effects government control over ura other radioactive minerals. Contro mining areas, exploitation and proc military use, and negotiations with on research and equipment.	ols extend over	Discusses analysis of various methods time fields, and suggests means to cal trajectory of cosmic rays with assista graphs.	to determine culate the
ST	42186	FDB	42 1 87
USSR/Physics Ionosphere Ionospheric Measurements	21 Jan 1948	USSR/Physics Ionosphere Ionospheric Measurements	21 Jan 1948
"First Observations of a Nocturnal ing Above the F ₂ Layer," A. N. Kaza "Dok Akad Nauk SSSR, Nova Ser" Vol	ntsev, 4 pp	"A Special Type of Ionosphere Disturban Mednikova, Sci Res Inst of the Earth's 4 pp	nce," N. V. Magnetism,
Discusses first observations of ion	ized laver lying	"Dok Akad Nauk SSSR, Nova Ser" Vol LD	K, No 3
above the F_2 layer made in 1934. R with recent observations of same ph- sions are that above the F_2 layer as frequently observed having a critics than the critical frequency of the l layer frequently observed in disturb	esults compared encmenon. Conclu- n ionized layer is al frequency less Fe layer This	Discusses extraordinary northern light observed by Meteorological Station, Ins Earth's Magnetism near Moscow, 16 Feb cludes that with the usual ionospheric characterized by lowering of critical f and increase of altitude of the F ₂ laye	stitute of the 1947. Con- disturbances requencies
FDB	42 T 88	FDB	42T89
USSR/Physics (Contd) the ionosphere and possibly created radiation of the sun. As a rule, th turnal layer, appearing about sumst at sunrise. Submitted by Academicia skiy, 13 Nov 1947.	te layer is a noc-	USSR/Physics (Contd) a special type of disturbance exists, c by appearance of additional layer of ic situated higher than the normal F_2 laye by Academician B. A. Vyedenskiy, 13 Nov	nosphere r. Submitted
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DB	1 on 88		
SSR/Physics	42T88	FDB USSR/Physics	42789
SSR/Physics X-ray Analysis Mica	21 Jan 1948	FDB USSR/Physics High Temperature Research Crucibles	42T89 Feb 1948
SSR/Physics X-ray Analysis Mica Chemical Constitution and Classifics . Serdyuchenko, 4 pp	21 Jan 1948 ation of Mica," D.	USSR/Physics High Temperature Research	Feb 1948
SSR/Physics X-ray Analysis Mica Chemical Constitution and Classifics Serdyuchenko, 4 pp Dok Akad Nauk SSSR, Nova Ser" Vol 1	21 Jan 1948 ation of Mica," D. LIX, No 3	USSR/Physics High Temperature Research Crucibles "New Method of Experimental Work at High	Feb 1948 1 Tempera-
	21 Jan 1948 ation of Mica," D. LIX, No 3 mica based on its mits distinction ns. Furthermore, of mica by X-ray sition of tetra- las the "K" law	USSR/Physics High Temperature Research Crucibles "New Method of Experimental Work at High tures," Ya. I. Ol'shanskiy, 3 pp	Feb 1948 n Tempera- No 6 experimental owing to the crucible. of crucibles

Real and the second sec	FDB Periodical Abstra	cts Scientific No 42	RESIDE
USSR/Physics Shock	Feb 1948	USSR/Physics Relaxation Phenomena	Feb 1948
Mathematics, Applied "Diffusion of Shock from a Point Semispace Covered by a Liquid La	yer," N. Zvolenskiy,	Sound, High Frequency "Relaxation Phenomena in Liquids i Field," V. N. Tsvetkov, V. E. Eski	
Geophys Inst, Acad Sci USSR, 4 p		"Dok Akad Nauk SSSR, Nova Ser" Vo	1 LIX, No 6
"Dok Akad Nauk SSSR, Nova Ser" Gives equations to calculate sho cusses character of the impulse moment. Submitted by Academicia	ck diffusion, and dis- given to the initial	Shows that accustic double refract corresponding interval of superson frequency can be used to determine relaxation of molecules in low-mol	ic oscillation the orientated
FDB	42192	FDB	42T93
USSR/Physics Hysteresis, Magnetic Magnetic Fields, Rotating	Fød 1948	USSR/Physics Ionization Electrons	21 Jan 1948
"The Theory of Losses by Hystere Fields," N. S. Akulov, T. A. Yel Inst Phys, Moscow State U imeni	kina, Magnetic Lab,	"Ionization of Molecules KI, Nal a trons," N. I. Ionov, Leningrad Phy Acad Sci USSR, 22 pp	nd CaCl by Elec- sicotech Inst,
"Dok Akad Nauk SSSR, Nova Ser"	vol LIX, No 6	"Dok Akad Nauk SSSR, Nova Ser" Vo	l LIX, No 3
Describes basic laws whereby mag losses by hysteresis are calcula magnetic fields with variable in with constant intensity.	ted in cases of weak	Describes results of experiments of bundles of molecules of alkali-hal trons. Dependence of the intensit upon change in density of the mole large interval of change in densit positive ions observed in ionization	oid salts by elec- by of mass lines cular bundles over by showed that all
FDB	42 T 94	FDB	42195
USSR/Physics Molecular Structures Electrons "Rapid Methods of Calculating th		USSR/Physics (Contd) the salts were formed by elementar fluence of secondary processes wer the experiments. Submitted by Aca	e not observed in
N. V. Belov, Corr Mem, Acad Sci "Dok Akad Nauk SSSR, Nova Ser"		loffe, 20 Nov 1947.	
Gives short table and graph for	· · · · · · · · · · · · · · · · · · ·		
the structural factor and electr	on density.		
	42796	FDB	42 T 95
FDB			21 Jan 1948
USSR/Physics Light - Dispersion Mathematics, Applied	21 Jan 1948	USSR/Physics Statics Mechanics, Applied	
"Theory of Dispersion of Light of Atmosphere and Hydrosphere," K.		"Longitudinal-transverse Deflectic Elastic Base," Sh. Ye. Mikeladze, imeni I. V. Stalin, 4 pp	m of a Beam on an Tbilisi State U
"Dok Akad Nauk SSSR, Nova Ser"		"Dok Akad Nauk SSSR, Nova Ser" Vo	ol LIX, No 3
By using method of successive ap analyzing unknown effective electron series according to \mathcal{A} , solution integral equation $\vec{E}_{2,\phi}(r) = \vec{E}_{ce} i \vec{K} \vec{r} + rot rot$ $\vec{E}_{2,\phi}(r) = \vec{E}_{ce} i \vec{K} \vec{r} + rot rot$ $\vec{E}_{2,\phi}(r) = \vec{E}_{ce} i \vec{K} \vec{r} + rot rot$ $\vec{E}_{2,\phi}(r) = \vec{E}_{ce} i \vec{K} \vec{r} + rot rot$	trical field in a is sought for the	Derives a general equation in prac- ient form for loaded curved (dist elastic base. Equation used to de- tion, bend, curve moment and trans any value of the abscissa. Submit L. S. Leybenzon, 4 Nov 1947.	ended) beam on etermine deflec- sverse strength for tted by Academician
FDB	42197	FDB	42198
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ATTESTUR LEATEN	FDB Periodical Abstra	acts Scientific No 42
USSR/Physics (Contd) which determines the spatial ar	21 Jan 1948	USSR/Physics Jan 1948 Spectrum Analysis X-ray Analysis
inside and outside a sphere.	ea of erecortcar flere	n na h-airte an Therman and an ann an ann an tha ann ann ann ann an ann ann ann ann an
		"New Method of Quantitative X-ray Spectrum Analysis," I. B. Borovskiy, X-ray Chem Lab, Inst Geol Sci, Acad Sci USSR, 22 pp
		"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 1
		Quantitative X-ray emission spectrum analysis of
		elements based on comparison of the relative inten- sity of lines of known element and element being compared. Describes as result of experiments, that it is possible to conduct quantitative optical anal- ysis by determining the width of some "standard"
FDB	42197	FDB 42T99
USSR/Physics	Jan 1948	USSR/Physics (Contd) Jan 1948
Corona Discharges Corona, Solar		line on the height of the peak of the line of ele- ment being studied. Submitted by Academician S. I.
"Coefficient of Recombination o charge of the Atmosphere," V. I Inst imeni G. M. Krzhizhanovski	. Popkov, Energetics	Vavilov, 31 Oct 1947.
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"Dok Akad Nauk SSSR, Nova Ser"		
In cases of electrical discharg discharges, a recombination of		
sions, moving about in the disc	harge field with high	
velocity, occurs. Describes ca combined ions is not uniform. cian A. V. Vinter, 21 Sep 1947.	Submitted by Academi-	
FDB	427100	FDB 42T99
USSR/Physics Atmosphere - Disturbances	Jan/Feb 1948	USSR/Physics Jan/Feb 1948 Fields, Electrostatic
Aerosols		Flow, Fluid
"Coagulation of Aerosol Particl mosphere," Ye. N. Teverov, 12 p		"Effect of an Electric Field on a Liquid Stream," Ya. I. Frenkel [®] , G. P. Vager, Main Geophys Observa- tory, Leningrad, 4 pp
"Izv Akad Nauk SSSR, Ser Geog 1	Geofiz" Vol XII, No 1	"Izv Akad Nauk SSSR, Ser Geog 1 Geofiz" Vol XII, No 1
Ultramicroscopic measurements m	_ 's f s ssee s k	
calculated for number of partic. in surface layer of the atmosph		Conducted experiment using a longitudinal electric field on a vertical liquid stream. Found that mod-
lished between speed constant on and coefficient of turbulent di		erate field stabilizes stream of water and that the stream begins to pulsate due to accumulation of a large drop on its upper end.
FDB	427101	FDB 42T102
USSR/Physics	Jan/Feb 1948	USSR/Physics Jan/Feb 1948
Glass, Optical Optics		Diffusion, Thermal Mathematics, Applied
"Effect of the Position of an A Prism with Full Interior Reflec tion Angle," I. Ya. Tanatar, 6	tion upon the Collima-	"Process of Heat Diffusion on Heterogeneous Media," L. I. Rubinshtein, Inst Theoretical Geophys, Acad Sci USSR, 20 pp
"Izv Akad Nauk SSSR, Ser Geog 1	Geofiz" Vol XII, No l	"Izv Akad Nauk SSSR, Ser Geog i Geofiz" Vol XII, No l
Investigates effect of deflection subject prism relative to two do amines effect of their distortion	atum lines, and ex- on upon the collimation	Examines question of heat diffusion in polycomponent system between whose components heat exchange takes place according to Henry's law. Solves first and
angle C, relative to a "normal" functional relation of C to \ominus a quantities.		second marginal problems for semiarea and cross sec- tion in the case of the bicomponent system.
FDB	421103	FDB 42T104
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