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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.

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			ples of phylogeny and systems	tics in paleontology,
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	USSR/Acad Sci Aug 194			Aug 1947
	Engin		a para na bana ang kana kana na na na mananana ang kana na	
	Metals		crust can be used to determine stratification Upper Paleozoic.	n of the
	"June Meeting of Department of Technical Sciences" 12 pp		opper Fareozoic.	
	"Vest Akad Nauk SSSR" No 8			
	Academician B. A. Vvedenskiy presided over the Jun meeting of the Department of Technical Sciences. Fi article submitted for reading was by A. A. Bochvar on dependence of fire resistance of aluminum alloys upon their structure and composition. Other articl submitted by M. P. Kostenko, and S. V. Serensen, Ukrainian Academy of Sciences.	3		
	FDB 57T7		FDB	5716
	USSR/Acad Sci Aug 191	17	USSR/Acad Sci	Aug 1947
	Engin		Chem - Acad Sci	
	"First Council for Coordination of Work of Scientif	'ic	Radium	
	Research Energetics Foundations," G. M. Krzhizhanov skiy, Academician, 72 pp		"June Session of Department of Chemical Scientify pp	nces"
	"Vest Akad Nauk SSSR" No 8		"Vest Akad Nauk SSSR" No 8	
	During period, 19-24 May 1947, first meeting of energetics foundations of the Academy of Sciences of the various Republics and affiliates of the Academy of Sciences of the USSR was held at the Energetics Institute. Main problem was to obtain more coordinat of scientific work in energetics. Meeting revealed much room for improvement of cooperation. It also	ie :ion	Session called in honor of 25th anniversary Radium Institute of the Academy of Sciences. Starik, Acting Director of the Radium Instit read a paper on the work of the Institute. eight workers awarded prizes and medals: Aca V. G. Khlopin, Director of the Institute; Ac cian P. I. Lukirskiy; B. A. Nikitin, I. Ye.	I.Ye. ute, Twenty- demician ademi-
	FDB 57T8		FDB	5719
	USSR/Acad Sci (Contd) Aug 194	7		Aug 1947
	introduced facilities of various institutions to or another.		and A. A. Grinberg, Corresponding Members of Academy of Sciences; M. G. Meshcheryakov, M. Pasvik-Khlopina, and A. Kh. Ratner, Candidat Chemical Sciences, etc. Several scientists, them A. N. Nesmeyanov and A. F. Kapustinskiy mitted articles and papers for judgment.	the A. es in among
	FDB 57T8		FDB	57 T 9
ļ	USSR/Acad Sci Aug 194	7	USSR/Acad Sci	Aug 1947
	Geol	·	,	
	Chem - Acad Sci		"Society for Coordination of Scientific Work	
	"Scientific Session of the Academy of Sciences of t Estonian SSR," L. Bakh, $2\frac{1}{2}$ pp	hө	Academies of Sciences of the Union Republics Kurochkin, Sci Secy of the Society, 10 pp	, G. D.
	"Vest Akad Nauk SSSR" No 8		"Vest Akad Nauk SSSR" No 8	
	During the period, 23-29 Apr 1947, the youngest of Academies of Sciences, the Estonian Academy of Sci- ences, held meetings at Tallin and at Tartu. Brief describes proceedings of the meetings. Majority of members of the Estonian Academy of Sciences are on faculty of the University of Tartu (formerly known Yur'yev or Derpt). Central library of the Estonian	Ly the as	Short account of work accomplished in variou Republic Academies of Sciences during 1946. ing Academies submitted reports: Azerbaydzha Armenian SSR, Belorussian SSR, Gruziya SSR, SSR, Latvian SSR, Lithuanian SSR, Ukrainian bek SSR, and Estonian SSR. Gives dates (yea various republics' Academies were officially nized.	Follow- n SSR, Kazakh SSR, Uz- rs) when
	FDB 57T10		FDB	57T11

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	USSR/Acad Sci (Contd) Aug 1947	USSR/Acad Sci Aug 19	
	Academy of Sciences is located in three-storied underground vault under former castle near Vyshgorod Gates. Main building of the Estonian Academy of Sci- ences is located in the center of Tallin, and houses the Institutes for Geology, Chemistry, Industrial	"Congratulations to the All-Union Society on Its Propagation of Political and Technical Sciences Fr the Academy of Sciences, USSR" 2 pp "Vest Akad Nauk SSSR" No 8	'OIII
	Problems, Construction, and Agriculture.		
		Political speech praises the great work by the All Union Society in its struggle to educate the Sovie public. It mentions existence of 16 Academies of Sciences, divided into 272 scientific research in-	ot
		stitutions. Ten of these Republics have represent tive Academies of Sciences, and five have affiliat or bases of the Academy of Sciences.	
	FDB 57T10	FDB 57T1	
	USSR/Acad Sci Aug 1947	USSR/Acad Sc1 Aug 19 Conductors, Sem1	47
	"Telegrams From Foreign Scientists" 2 pp		
	"Vest Akad Nauk SSSR" No 8	"June Session of the General Assembly of the Acade of Sciences" 9 pp	my
	Venkama Raman (Bangalore), Frederic and Irene Joliot- Curie (Paris), Al'bert Sent-D'yerdi (Budapest), Zdenek	"Vest Akad Nauk SSSR" No 8	
	Neyedly (Prague), Todor Pavlov (Sofia), Konstantin	Session took place, 10-13 Jun, in the Moscow House)
	Parkhon (Bucharest), and Kazimir Natsh (Krakow), have sent telegrams to the Academy of Sciences, USSR, its	of Science. Briefly records proceedings of the assembly. Papers read by: A. F. Ioffe, on semicon	
	president, S. I. Vavilov, or its secretary, N. G.	ductors and alloys; G. V. Gershuni, on subsensory	
	Bruyevich, expressing thanks at having been elected to membership in the Academy of Sciences, USSR.	reactions; and S. S. Nametkin; I. P. Bardin; V. P. Volgin; etc.	
_	FDB 57T13	FDB 57TL	and the second
	USSR/Acad Sci Nov/Dec 1947	USSR/Electricity Nov/Dec 194 Ohm Meters	7
	"Regular Session of Department of Physicomathematical Sciences of the Academy of Sciences, USSR" $\frac{1}{2}$ p	Water - Research	
	"Izv Akad Nauk SSSR, Ser Fiz" Vol XI, No 6	"Ohm Məter With Regulated Coefficient," O. K. Vlad: mirov, M. Ye. Novozhilova, 13 pp	i-
	Papers submitted at the May session by: M. F. Subbotin		
	G. A. Shayn, I. V. Obreimov, A. R. Prikhod'ko, I. V.		
	Rodinikova, A. S. Zavel'skiy, S. Kh. Matushevskiy, M. N. Reyfman, Yu. M. Sukharevskiy, and V. S. Nesterov. Papers submitted at the Jun session by: A. N. Kolmogo- rov, V. K. Arkad'yev, and A. V. Shubnikov.	Standard resistance meters produced by Russian in- dustry are not suited for studying fresh waters of high specific resistance. To make possible the use of the present apparatus for measurements in all	
		cases, it is necessary to design a resistance meter with a coefficient that can be varied within the limits of 0.005 to 0.5 in measuring specific resis	
	FDB 57T15	ance in ohm meters. Describes such device.	
-	FDB 57T15 USSR/Engin Dec 1947	LC 57T10 USSR/Engin Dec 194	
	Ships - Repair Tank Ships	Valves Metals, Heat-Resisting	
	"Modernizing the Tanker 'Beriya'," B. Felinzat, Engr-Mach, $6\frac{1}{2}$ pp	"Materials for Manufacture of Distributing Valves," A. Yeremin, Sr Sci Collaborator, TsNIIMF, 2 pp	ŧŧ
	"Morskoy Flot" No 12	"Morskoy Flot" No 12	
	Cargo capacity is expected to be increased 2.2 times during present Five-Year Plan. Accordingly, the tank- er "Beriya" underwent modernization recently: engines replaced, electric tachemeter installed, resistance pumps replaced, etc.	Most valves in Diesel engines must operate at very high temperatures and are being produced from new materials having high degree of heat resistance. Describes composition of four new materials. Edi- tors request machinists and engineers of ships usin new materials to send in reports on their efficience	ng
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	LC 57T17	LC 57T1{	8
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and the second se		racts Scientific No 57	RESTRICTED
USSR/Engin Harbor Protection Systems Winterization	Dec 1947	USSR/Engin Construction, Marine Erosion	Dec 1947
"Careful Completion of Preparation tions" 3 pp	for Winter Opera-	"Reinforcing the Coast at Sochi, Engr, 5 pp	"V. Gamazhenko,
"Morskoy Flot" No 12		"Morskoy Flot" No 12	
Urges all echelons in the shipping careful preparations for winter. ry ports, such as Leningrad, that for winter as early as Jul, and th starting as early as Jun. Others a Kherson wharfs was only about 10% operations by Nov, and Krasnaya Kur completed in Nov. LC	Cites some exempla- begin preparations e Taganrog works, are very backward. completed for winter	Final installment of series of a used and types of reinforcements the sea from eroding Sochi coast sectional views of the sea wall, position of retaining wall.	built to prevent line further. Cross- and plan showing
USSR/Engin	Dec 1947		57120
Water Heaters	Dec 1947	USSR/Engin Metallurgy	Dec 1947
Engines, Marine		Furnaces, Electric-Arc	
"Methods of Measuring Crust Inside Pipes of Boilers," M. Larichev, Eng "Morskoy Flot" No 12	gr, l p	"Quantitative Determination of S Slag in Electric-Arc Furnaces," A Yu. Polyakov, L. A. Shvartsman, (Sci USSR; Metal Inst imeni A. A. USSR, 9 pp	A. M. Samarin, A. Corr Members, Acad
Describes system to measure encrust inside surfaces of water-heating pi important as crust of more than 0.5 reduce operating efficiency of boil	pes. This is very mm will greatly or equipment. Edi-	"Izv Akad Nauk SSSR, Otdel Tekh N	-
tors request reports from operating able to draw up standard for critic crusts for various-type boilers.	g personnel to be al thicknesses of	discover some method to determine used during smelting in Martin fr oxidizing period necessary in sin	e amount of iron ore urnaces, or the
LC	57 T21	FDB	57122
USSR/Engin Ships - Roll and Pitch Ships - Stabilization "Theory of Rolling and the Stabilit Heavy Seas," G. Ye. Pavlenko, 16 pp		USSR/Engin (Contd) furnace. Authors present results tive determination of necessary of slag, with aid of method they con most exact yet suggested. Submit	oxidation ability of usider to be the
"Izv Akad Nauk SSSR, Otdel Tekh Nau Summary of results of experiments a over period of years to determine e stability of ship. Discusses roll absence of resistance, roll on quie ance is present, roll during heavy of safety, and methods to calculate force. Submitted by Academician V. 9 Apr 1946.	nd tests conducted ffect of rolling on on quiet sea with t sea when resist- seas, the hyperbole the disturbing		
FDB	57123	FDB	57 T 22
USSR/Engin Boilers Combustion Chambers	Dec 1947	USSR/Engin Compressors Heat - Transference	Dec 1947
"Thermal Calculations of Boiler Com S. P. Syromyatnikov, Academician, 12	5ş bb	"Phenomenon of Heat Transfer Betw ders and Air During Operation of 1 A. P. German, Academician, 10 pp	een Walls of Cylin- Piston Compressors,"
"Izv Akad Nauk SSSR, Otdel Tekh Nauh	r" No 12	"Izv Akad Nauk, Otdel Tekh Nauk"	No 12
Correct choice of dimensions of the of boiler installation is very impor- building the unit. One of the most the thermal calculation of the work the combustion chamber. At present, curate method for calculating the th this chamber. Author presents resul- FDE	rtant point when complex tasks is of the gas flow of , there is no ac- mermal system in	Author presents various mathematic calculating heat transfer between and the free air during operation compressor. Also presents large 1 German works on this subject and n erence to work done by German scie field. Submitted, 4 May 1947. FDB	cal formulas for walls of cylinder of piston-type bibliography of makes frequent ref-
	- 6		

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	USSR/Engin (Contd)	Dec 1947	USSR/Engin Metallurgy		Dec 1947
	work, and claims discovery of reliab making this calculation. States that	t with slight	Casting		
	modifications it can be applied to i of any make. Submitted, 5 Jun 1947.	ndustrial hollows	"Selection of We Steel Pig," S. Z neers, KMK, 6 pp	ight and Method of Casti . Yudovich, S. A. Yatsov	ng Quality skiy, Engi-
			"Stal'" No 12		
	FDB	57124	Kuznets Combine. authors state th steel could be <u>i</u> explain possibil the siphon metho	ucted at one of the plan As result of data obta at the weight of pig of ncreased to 6 tons or mo ity of using siphon pour d it is possible to decr	ined, quality re. Also ing. With ease the
	USSR/Engin		FDB USSR/Engin (Con	+7)	57T26
	Rolling Mills Coal		· · · · · ·	and air holes with no los	Dec 1947
	"Powder Coal Heating of Rolling Furne haluyev, Engr, Eastern Inst Utilizat:	aces," K. M. Pak- ion of Fuel, 5t pp	quality.		55 UI
	"Stal'" No 12				
	Experiments over long period to deter advantages of using combined gas-coal plain coal powder fuel to heat rollin showed that coal powder was far more of this type of fuel permits increase	l powder fuel or ng furnaces efficient. Use			
	economical factors during operation of under high temperatures necessary for coal used.	of these furnaces, melting ashes of			
	FDB USSR/Engin	57T27 Dec 1947	FDB		57126
	Metallurgy Steel - Production	Dec 1947	USSR/Engin Motallurgy Furnaces		Dec 1947
	"Chusovsk Metallurgical Works on Eve Anniversary of the Great October Revo Popov, S. I. Sapiro, Engineers, Chuso	olution." A. P	Prof I. D. Semiki	n for Hearth of Blast Fur in, Dnepropetrovsk Metal , Dneprodzerzhinsk Night	Inst: I.G.
	"Stal'" No 12		"Stal'" No 12		
1	Briefly discusses various parts of Ch gical Works. Gives special attention made since the Revolution. It is one metallurgical plants of the Ural regi larly important for its vanadium stee figures are given, but development of	to advances of the largest on, and particu-	blast furnaces. the hearth block. the hearth block. stability of hear	New construction for hear Hearth has heavy bronze Cooling plates are arr Claim that with this a th is increased, service foundations is lengthene	base under anged under urrangement period of
	FDB	57128	operating period FDB	of the furnace increases	
	JSSR/Engin (Contd)	Dec 1947	USSR/Engin Metallurgy		57T29 Dec 1947
é 1	given in percentage figures based on tionary production.	its prerevolu-	Furnaces		
				for Hearth of Blast Fur	nace" 6 pp
			"Stal'" No 12		
			submitted by Profe chenko. A. F. She Sciences, of Gipro suggested by Semil as uneven heating crack. He in turn	icles written in answer essor Semikin and Engine eynberg, Candidate in Tec oMez states that the cons kin and Polovchenko is in of the hearth will cause a suggests that stability	er Polov- chnical struction nefficient, e it to v of the
F	B	57T28	alloys having low coefficients. FD	be increased, if it is can deformation and linear e	expansion
		- 7		,	<u>57T30</u>

RESTRICTED	FDB Periodical Abstra	acts Scientific No 57	RESTRICTED
USSR/Engin Metallurgy, Ferrous Efficiency, Industrial	Dec 1947	USSR/Engin Metallurgy Furnaces	Dec 1947
"Let Us Complete the New St Years" 2 [±] pp	alin Five-Year Plan in Four	"Construction of Hearth of B Leonidov, Engr, GiproMez, 2	
"Stal'" No 12		"Stal'" No 12	
Exhorts various steel indus to complete present Five-Ye hoped that by the end of 19 abinsk Metallurgical Works tons of pig, 2,500 tons of rolled steel above its norm plants are exceeding their FDB	ar Plan in 4 years. It is 47 the Collective of Chely- will have produced 10,000 steel, and 5,500 tons of . Various dome-furnace	Refers to article by Profess Polovchenko on new construct furnace. Leonidov states the construction the effect of m face of the hearth is not van any type of damage to the co ly speed up disintegration of great damage to foundations FDB	ion for hearth of blast at in spite of the new olten pig on upper sur- ried. He also adds that oling system will great- f the hearth, and cause
USSR/Engin (Contd)	Dec 1947	USSR/Engin Peat Industry	Jan 1948
various other plants that a by planning to complete the		"Determination of Degree of 1 for Technical Purposes," Z. 3 "Torf Prom" No 1	Decomposition of Peat P. Kandulinskaya, 2 pp
		Peat industry is in extreme a jective method to determine of of peat. Discusses disadvan microscopic method. Lists as less used methods, and brief ties to be overcome in any me ments of the industry.	degree of decomposition tages of presently used dvantages of some other ly discusses difficul-
FDB	57T31	LC	57T33
USSR/Engin Peat Industry Pipe	Jan 1948	USSR/Engin Mach - Construction Peat Industry	Jan 1948
"Eydraulic Knock in Mass Co Dr M. D. Bezzubov, Moscow P	nductors of Hydropeat," eat Inst, 1 p	"Problems of Peat Machine Con Chief, GlavTorfMasha, 2 pp	nstruction," I. Zhulin,
"Torf Prom" No 1		"Torf Prom" No 1	
Mathematical discussion of) peat mass conductor pipe.	nydraulic knock in hydro-	According to the Stalin Four- traction of peat must be inco mechanization of the most la as extraction and removal of loading of peat, digging tree etc. Discusses difficulties machines used for these purp	reased primarily by borious processes, such lump and cut peat, nches, laying drains, with constructing
	57 T 34	LC	57 T 35
ISSR/Geog Peat Resources	Jan 1948	USSR/Geog Deserts	Nov/Dec 1947
Peat Beds of Gruziya," A.]	N. Ter'yan, 2 pp	"Farthest Intrusion of Dry Wa Inst Geog, Acad Sci USSR, 6]	
Torf Prom" No 1 Peat bogs of Gruziya may be lowland and mountain plateau importance, while the other portance. Briefly describes Redut-Kale, Sukhumskoye, and	a areas. First is of chief is only of secondary im- s Kobuletskoye, Potiyskoye,	"Izv Akad Nauk SSSR, Ser Geog No 6 Describes extreme northern in wastes. Discusses character: and biogeographic conditions reasons for formation of such higher latitudes of Asia. So	ntrusions of the dead istics of their climatic . Also discusses some 1 desert wastes in
		A. A. Grigor'yev, 10 Oct 1946	

	the second second second second	second	
RESTRICTED F	DB Periodical Abst	racts Scientific No 57	RESTRICTED
USSR/Geol Eydrol	Nov/Dec 1947	USSR/Geol Mining Equipment	Nov/Dec 1947
"Modulus of Underground Flow of Lit A. A. Konoplyantsev, <u>3</u> pp	tle Kara-Tau Range	"Rationalization and Invention in cal Administration," S. I. Mekhor	the Ural Geologi- Noshin, 7 pp
"Razvedka Nedr" No 6		"Razvedka Nedr" No 6	
Considerable amount of water needed and future use in the Kara-Tau Phos located in an area of very light ra presents hydrogeological study of L Mountain Range where Combine is loca	phorite Combine, infall. Author ittle Kara-Teu	Extensive account of work done in equipment used in production proc Geological Administration. Discu use of natural combustible gases ground waters, device for cutting screw-cutting machines, etc.	esses by the Ural isses extraction and dissolved in under-
LC	57 T3 8	LC	C (1873 A
USSR/Geol Prospecting Petroleum	Nov/Dec 1947	USSR/Geol Prospecting Coal	57 <u>7</u> 39 Nov/Dec 1947
"Aspects of Prospecting for Gas and tween the Ural and Volga Rivers," N S. K. Karymsakov, 3 pp	Oil Deposits Be- . A. Shvemberger,	"Problem of the Coal Capacity of Depression," S. K. Komotskiy, 82	the Dnepr-Donets pp
"Razvedka Nedr" No 6		"Razvedka Nedr" No 6	
Lowland area along the Caspian Sea h and Volga Rivers, characterized by m gas discharges, differs considerably cal structure from neighboring Emba to recent prospecting, area is looke oil- and gas-bearing region almost u logical study.	nany hydrocarbon in its geologi- oil fields. Due	Reports prospecting work in the D pression since 1940 to give more coal content of area and nature o definite knowledge on this was for Presents diagrams of geological c area.	precise idea of f deposits. No rmerly available.
	57 T 40	LC	57 T 41
USSR/Geol Prospecting Maps	Nov/Dec 1947	USSR/Geol Prospecting Quartz	Nov/Dec 1947
"Scale of Angles of Slope for Struct Maslov, 2 pp	ural Maps," K. S.	"Chokadam-Bulak Quartz Bod," L. P.	Konnov, 4 pp
"Razvedka Nedr" No 6		"Razvedka Nedr" No 6	
Structural maps usually do not have a measuring angles of slope. Consequer magnitudes of slope of structural sur determined in the process of reading making additional calculations. Auti ciple, and presents scale for measure slope.	ntly, changes in rface cannot be such maps without for develops prin-	Chokadam-Bulak bed is situated in from Leninabad. Deposit was first suggested for prospecting in 1944 sidered strong industrial source of material. Konnov discusses geolog composition of the deposit.	; evaluated and by Konnov. Con- f quartz raw
LC	57 T 42	LC	57 T 43
USSR/Geol Prospecting Coal	Nov/Dec 1947	USSR/Geol Prospecting Mines	Nov/Dec 1947
"Technological Process of Drilling," 32 pp	Ye. F. Epshteyn,	"Rationalization of Technology of Geological Prospecting Parties of	'UralCherMetRaz-
"Razvedka Nedr" No 6		vedka' Trust," V. V. Sukhoruchkin,	5 pp
Describes new method of prospect dril by the Donbass Coal Prospecting Unit recommends it for use in geological p parties. It is supposed to increase 10-20%.	in 1941, and rospecting	"Razvedka Nedr" No 6 Describes method of cutting prospe and crosscuts developed by author.	cting pits, drifts,
LC	5 7T 44	IC	57 T 45
	- 9		

RESTRICTED	FDB Periodical Abstr	acts Scientific No 57	RESTRICTED
USSR/Geol Prospecting Petroleum	Nov/Dec 1947	USSR/Geol Prospecting Mercury	Nov/Dec 1947
"Experience in Organization of M search in Field Parties in Siber G. I. Gendrikhovskaya, 3 pp	icropetrographic Re- ia," L. O. Stankevich,	"New Type of Mercuric Minerali: A. V. Merkur'yev, 6 pp	zation in the Urals,"
"Razvedka Nedr" No 6		"Razvedka Nedr" No 6	
Discusses technical problems met scopic studies of rocks during ge	in making micro- eological expeditions.	Presents geological data on new mental deposits of cinnabar dis region of Sverdlovsk Oblast in the Ural Geological Administrat of author.	covered in Isovsk prospecting work of
LC	57 T 46	LC	57147
USSR/Geol Prospecting Lead	Nov/Dec 1947	USSR/Geophys Atmosphere	Nov/Dec 1947
"Combination Profiling in Applics A. S. Semenov, 5 pp "Razvedka Nedr" No 6		"Observations on the Dawn as Me Lower Layers of the Atmosphere, 24 pp "Izv Akad Nauk SSSR, Ser Geogra	" N. I. Kucherov,
Curves for profiling with symmetr tained automatically from curves filing. Former are constructed a values of the ordinate of curves filing. It is easily seen that t anomaly for such curves will be c than for curves of combination or filing.	of combination pro- ccording to average of combination pro- he magnitude of the onsiderably less	No 6 Author discusses the astro-geom dawns and classifies various-ty phenomenon known as "dawn strea phenomenon of dawn is dependent conditions of the atmosphere. dawn can be used as method to s	etrical theory of pe dawns. Describes k." Shows that the on basic synoptic Observations of the
LC JSSR/Geophys	57148	FDB	57149
Soil Sci Process of Freezing of Soil," L. of pp 'Izv Akad Nauk SSSR, Ser Geograf		USSR/Geophys (Contd) the atmosphere, and therefore a the synoptic standpoint. Two c various types of dawns. Submit L. S. Leybenzon, 25 Aug 1945.	olor plates show
author discusses the freezing of a content, in particular, this freez- hen moisture of the soil is at ve- peratures, in event of unlimited a extreme conditions as set up by St uestion of change of temperature he change of aggregate composition	zing under conditions arious freezing tem- space that is under tefan. States that with relation to		
DB	57150	FDB	57149
SSR/Geophys (Contd)	Nov/Dec 1947	USSR/Gravimetry Gravimetric Analysis	Nov/Dec 1947
aken up in another article, "Ques sses of Distribution of Heat in H ials." Submitted by L. S. Leyber	eterogeneous Mate-	"Fourth All-Union Conference on Bulanzhe, 2 pp	Gravimetry," Yu. D.
		"Izv Akad Nauk SSSR, Ser Geograf No 6	'i Geofiz" Vol XI,
DB		In late Apr 1947, Fourth All-Un Gravimetry took place in Moscow, the meeting, and discusses some during the six-year span between Fourth Conference. At the Fourt Izotov read paper on use of grav study of the shape of the earth,	Reports minutes of of the developments the Third and the h Conference A. A. imetric data for
	57150		-

-	tracts Scientific No 57 RESTRICTED
USSR/Hydrol Aug 1947 Potamol	(1) A to the second condition of the second conditi
"Utilization of Water Reservoirs of Small Basins" 24 pp	tion. This report was submitted for publication, 15 Jul 1947.
"Vest Akad Nauk SSSR" No 8	
This series of articles and theses was submitted at council of Section on Scientific Solving of Problems on Hydroeconomy. Discussions covered four distinct fields: 1) studies, investigations, surveys, and future plans, 2) hydroenergy, 3) water transport and transportation of lumber by river current, 4) water supplies, control of erosion and fish breeding. Sev eral scientists submitted articles in the four field	_
FDB 57152	FDB 57T51
USSR/Med - Paleontol Aug 1947 Med - Growth	USSR/Med - Fruits Aug 1947 Med - Growth
"Scientific Competitions" 1 p	"Control of Growth and Ripening of Fruit With the Aid of Regulating Substances," N. A. Maksimov,
"Vest Akad Nauk SSSR" No 8	Academician, 11 pp
Department of Biological Sciences, Academy of Sci- ences, USSR, announces that papers will be accepted	"Vest Akad Nauk SSSR" No 8
for judgment for the prize imeni Academician A. A. Borisyak for work in evolutionary paleontology. Prize is 10,000 rubles, and applications must be received before 1 Nov 1947. Also announces that papers will be accepted for judgment for the prize imeni K. A. Timiryazev in the field of physiology of growth. Prize is 15,000 rubles, and applications must be re- ceived before 1 Jan 1948.	Institute of Physiology of Growth imeni K. A. Timir- yazev, Academy of Sciences, USSR, has done much work on effect of chemical substances on process of ripen- ing. Author discusses effects of several growth sub- stances, such as $C_{10}H_0O_0N$, on progress of growth of the plant and ripening of the fruit of the plant.
FDB 57T53 USSR/Metals Dec 1947	FDB 57T54 USSR/Metals Dec 1947
Viscosity Math, Applied	Crystallization Steels
"Interpretation of the Viscosity Coefficient of Metals," I. A. Oding, Corr Mem, Acad Sci USSR, Inst Mach Studies, Acad Sci USSR, 67 pp	"Nonhomogeneity of Steel Pig and Its Crystalliza- tion," V. A. Davidenko, Metal Inst imeni A. A. Baykov, Acad Sci USSR, 21 pp
"Izv Akad Nauk, Otdel Tekh Nauk" No 12	"Izv Akad Nauk SSSR, Otdel Tekh Nauk" No 12
Oding takes A. Nadai's equation:	Author begins with general description of develop-
$d\sigma = \frac{\partial \sigma}{\partial t} dt + \frac{\partial \sigma}{\partial \epsilon_{p}} d\epsilon_{p} + \frac{\partial \sigma}{\partial \nu} d\nu$ and interprets every part of it. Submitted, 5 Jun 1947.	ment of the problem of the nonhomogeneity of steel pig. Then describes tests he conducted to determine crystallization in various types of steel. Also evaluates results obtained. One of the most impor- tant observations was the fact that he established
FDB 57T55	FDB 57T56
USSR/Metals Dec 1947 Carburization Kinetics	USSR/Metals (Contd) Dec 1947 regularity and common factor permitting use of same
"Question of Kinetics of Cementation of Cobalt and Nickel From Water Solutions of Metallic Zinc," G. S. Frents, B. P. Kreyngauz, Metal Inst imeni A. A. Bay- kov, Acad Sci USSR, $7\frac{1}{4}$ pp	method to determine development of crystallization in steel, and other types of metals. Submitted by Academician I. P. Bardin, 15 Jul 1947.
"Izv Akad Nauk SSSR, Otdel Tekh Nauk" No 12	
Object of study was to determine conditions for cementation of cobalt and nickel from sulfuric acid solutions of metallic zinc. Among results obtained was the fact that cementation of nickel and cobalt from water solutions of their salts by means of	
FDB 577157	FDB 57T56
	11 w

	racts Scientific No 57	RESTRICTEI
USSR/Metals (Contd) Dec 1947	USSR/Metals Flow Pressure	Dec 1947
metallic zinc was possible when concentrations of hydrogen ions was pH-3.5 to 4.0. Authors also were	Drawing	
able to determine that with similar amounts of metal, cementation of cobalt was twice as active as cementa- tion of nickel. Submitted by Academician I. P. Bardin, 15 Jul 1947.	"Theory of Specific Flow Pressure Drawing," S. I. Gubkin, Metal Inst kov, Acad Sci USSR, 182 pp	of Metal During imeni A. A. Bay-
	"Izv Akad Nauk SSSR, Otdel Tekh Na	uk" No 12
	Article was submitted at session of Processing of Metals by Pressure, stitute imeni A. A. Baykov, and di formulas used to determine the spe- sure of metal during the process of cusses the UDT (specific flow press	Metallurgical In- scusses various sific flow pres- f drawing. Dis-
FDB 57T57	FDB	57 T 58
USSR/Metals Dec 1947 Precipitation	USSR/Metals (Contd)	Dec 1947
Kinetics "Cementation of Metals From Their Chloride Solutions," D. M. Chizhikov, B. Ya. Tratsevitskaya, Corr Members, Acad Sci USSR, Metal Inst imeni A. A. Baykov, Acad Sci USSR, 82 pp	mation during drawing, the UDT of r ing, determining basic resistance, cient of outer friction. Submitted I. P. Bardin, 15 Jul 1947.	and the coeffi-
"Izv Akad Nauk SSSR, Otdel Tekh Nauk" No 12		
Authors conducted experiments to study kinetics of the cementation of metals from their chloride com- pounds. Metals used were Zn, Fe, Sn, Fb, H, and Cu. Among results obtained was the fact that iron does not displace zinc at concentrations of Fe ^{••} 2 grams per liter or less. Submitted, 15 Jul 1947. FDB	FDB	57158
USSR/Metals Dec 1947	USSR/Metals	
Diffusion Math, Applied	Steel, High-Speed Steel, Tungsten	Dec 1947
Diffusion in Molten Metals," A. M. Samarin, L. A. Shvartsman, Corr Members, Acad Sci USSR, Metal Inst meni A. A. Baykov, Acad Sci USSR, 22 pp Izv Akad Nauk SSSR, Otdel Tekh Nauk" No 12	"Effect of Niobium on Characteristi High-Speed Steel," L. D. Mashtakova Academician, Metal Inst imeni A. A. USSR, 8 ¹ / ₂ pp	. N. T. Gudtsov.
uthors wish to point out that equations suggested by	"Izv Akad Nauk SSSR, Otdel Tekh Nau	k" No 12
tokes and Einshtein give correct approximations for iffusion of metals, for low and high temperatures. Lention, however, that all experiments on observation f diffusion in molten metals are very limited. Sub- litted, 15 Jul 1947.	In 1939 there were several tests an determine effect of nicbium, titanin molybdenum on cutting characteristi- steel. Authors report data obtained continuation of these tests, partic	um, cobalt, or cs of high-speed d as result of
000 /M + 1	FDB	57T61
SSR/Metals Dec 1947 Steel Alloys Hardening	USSR/Metals (Contd)	Dec 1947
Hardening and Softening of Binary Steel Alloys," M. . Shteynberg, Candidate Tech Sci, Ural Industrial nst, 4 pp	action of low-tungsten content high Authors conducted experiments to de- niobium on structure and cutting ab: containing 2.6-3.2% tungsten. Subm: 1947.	termine effect of llity of steel
Stal'" No 12		
tudy of the properties of iron alloys, hardening uring cold plastic deformation, and softening during eating makes it possible to determine effect of ele- ents alloyed in the iron on the properties of steel or construction purposes. In particular, it is pos- ible to determine density and heat resistance. This essence and study is very important step in the study		
steel alloys. FDB 57762	FDB	57161

RESTRICTED	DB Periodical Abstr	racts Scientific No 57	RESTRICTED
USSR/Metals Steel Alloys	Dec 1947	USSR/Meteorol Climate	Nov/Dec 1947
Steel - Nardness "Ya. S. Umanskiy's Book, 'Carbides	of Hard Alloys',"	"Weather Conditions in Moscow Inst Geog, Acad Sci USSR, 10]	," L. A. Chubukov, pp
Prof V. S. Mes'kin, Dr Tech Sci, 1 "Stal" No 12	þ	"Izv Akad Nauk SSSR, Ser Geographic No 6	caf i Geofiz" Vol XI,
Reviews 152-page book published in gical Publishing House. States that be great contribution not only to a field of hard alloys, but also to t of metal studies, metallurgy, and m tion. Will be of particular value in production or handle steel alloy	t this book will pecialists in the hose in the field achine construc- to those engaged	Describes climate of Moscow, a factors of climatology. Clima posed of series of repeating t tions and meteorological pheno similar characteristics. Form of Moscow weather conditions t regularities in radiational be	ate of Moscow is com- types of weather condi- mena containing very mation of the structure is characterized by
FDB	57 T 63	FDB	57164
USSR/Meteorol Meteorol Res	Nov/Dec 1947	USSR/Meteorol (Contd)	Nov/Dec 1947
"Statistical Character of the Synop Central Asia During the Cold Part of Sarymsakov, V. A. Dzhordzhio, V. A. Math and Mech, Acad Sci Uzbek SSR,	f the Year," T. A. Bugavey, Inst	the atmosphere, and topography ing Moscow. Submitted by Acad yev, 20 Feb 1947.	of the area surround- lemician A. A. Grigor'-
"Izv Akad Nauk SSSR, Ser Geograf 1 No 6	Geofiz" Vol XI,		· · · ·
Authors discuss studies conducted t tical method of classifying synopti Central Asia. In addition to repet tion of separate types on which are dynamic formation of climate during FDB	c conditions over ition and prolonga- based methods for cold part of the		
USSR/Meteorol (Contd)	57165	FDB	57164
year, authors also show relationshi types of conditions. Discuss system from standpoint of its value as mean Submitted, 5 Jul 1946.	n they suggest	 USSR/Minerals Geophys Salt "Mechanism of the Formation of Shneyerson, Inst Theoretical G 51 pp "Izv Akad Nauk SSSR, Ser Geogr No 6 Uses method of calculating ene formation of salt domes to exp sary for these forces. Explain 	eophys, Acad Sci USSR, af i Geofiz" Vol XI, rgy necessary for lain conditions neces-
		cally: States that the salt tr shape of a pillar. Calculation	avels upward in the
FDB	57165	FDB	57166
USSR/Mines and Mining Shafts Coal	Dec 1947	USSR/Minerals (Contd) hypothesis were adopted, there	Nov/Dec 1947
"Forms of Shaft Distribution in the A. P. Sudoplatov, Inst Mining, Acad	Moscow Coal Basin ^w Sci USSR, 17 pp	tangential force that is expend piercing of the rock lying over Submitted by Academician L. S.	ded primarily on the r the salt pillar.
"Izv Akad Nauk, Otdel Tekh Nauk" No	9 12	1947.	
Discusses various types of shaft dis mines in the Moscow coal basin. Des conditions that might be met and rec advantageous type of mine and shaft by Academician A. M. Terpigorev, 19	cribes various ommends the most layout. Submitted		•
FDB	57 167	FDB	57166
	- 13	- 	

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RESTRICTED FDB Periodical Abstr	cacts Scientific No 57 RESTRICTED	
USSR/Nuclear Phys - Counters, Proportional Feb 1947 Nuclear Phys - Equipment	USSR/Nuclear Phys - Mass Spectrographs Feb 1947	
"Flat Proportional Counter," L. Bell, V. Veksler, Phys Inst imeni P. N. Lebedev, Acad Sci USSR, 52 pp	Math, Applied "Wave Field With Mass Spectrum," D. I. Blokhintsyev, Phys Inst imeni P. N. Lebedev, Acad Sci USSR, 6 pp	
"Zhur Eksper i Teoret Fiz" Vol XVII, No 2	"Zhur Eksper i Teoret Fiz" Vol XVII, No 2	
Describes flat proportional counter. Makes study of its properties and shows that it fulfills all require- ments usually demanded. Shows that special attention must be paid to elimination of formation of negative ions in the working gas. Article was also published in English in "Journal of Physics" Vol X, p 386, 1946.	ators of these equations. Gives case of scalar field particularly close examination. Article also appears in English in "Journal of Physics" Vol XI	
FDB 57T68	FDB 57T69	
USSR/Nuclear Phys - Gamma Rays Feb 1947 Nuclear Phys - Impact, Electronic	USSR/Nuclear Phys - Gamma Rays Feb 1947 Nuclear Phys - Impact, Electronic	
"Angular Distribution of Electronic Pairs Produced by Rays of ThC," L. V. Groshev, I. M. Frank, Phys Inst imeni P. N. Lebedev, Acad Sci USSR, 22 pp	"Transition Effects of γ Rays and Their Influence on the Ionization Current in Ionization Chambers," O. N. Vavilov, I. M. Frank, Phys Inst imeni P. N. Lebedev, Acad Sci USSR, 12 pp	
"Zhur Eksper i Teoret Fiz" Vol XVII, No 2	"Zhur Eksper i Teoret Fiz" Vol XVII, No 2	
Shows that dependence of distribution of angles be- tween components of pairs formed by γ rays on the atomic number of the irradiated substance can differ, depending on method of pair registration employed. As result of this, the difference in results obtained with use of the Wilson chamber and the counters does not lead to contradiction.	Made measurements of the transition effects of γ rays with use of flat thin-walled ionization cham-	
FDB . 57T70	FDB 57T71	
USSR/Nuclear Phys - Particles Nov/Dec 1947 Nuclear Phys - Nuclei	USSR/Nuclear Phys - Gamma Rays (Contd) Feb 1947	
"Magnetic Properties of Atomic Nuclei," Ya. I. Frenkel', 5 pp "Izv Akad Nauk SSSR, Ser Fiz" Vol XI, No 6 Discusses magnetic moments of protons and neutrons, nonadditivity of magnetic moments of complex nuclei. and analogy of complex nuclei with paramagnetic bodies.	the substances were transposed from one layer to the other so that the quantity of given substance on the layer next to the wall of the chamber would be vari- able. This made it possible to measure transition effects for the front and back walls of the chamber, and the equilibrium intensity of radiation in vari- ous substances with constant intensitivity of the first Y rays falling on the chamber.	
FDB 57T72	FDB 57T71	
USSR/Nuclear Phys - Atoms Nov/Dec 1947 Nuclear Phys - Electron Theory	USSR/Petroleum Industry Nov/Dec 1947 Oil Wells	
"Atomic Magnetic Moments in Solid and Liquid Bodies," Ya. G. Dorfman, 8 pp	"Influence of Chemical Corrosion on Output of Oil Wells," V. M. Gavrilko, 4 pp	
"Izv Akad Nauk SSSR, Ser Fiz" Vol XI, No 6	"Razvedka Nedr" No 6	
Discusses problem of studying magnetic moments of the electron shell of atoms, experimental methods to de- termine atomic magnetic moments, and atomic magnetic moments and interatomic bond in solid and liquid bodies. Determination of atomic magnetic moments in condensed systems can serve as very precise means of studying entire series of peculiarities in interaction between atoms and ions.	Electrochemical and chemical corrosion resulting from action of underground water on filter materials of oil wells is in many cases one of the basic causes of the lowering of the output of these wells. Discusses aspects of this problem.	
FDB 57T73	LC 57T74	
- 14	• -	

RESTRICTED	FDB Periodical Abstr	acts Scientific No 57	RESTR ICTED
USSR/Phys Ferromagnetics Magnetic Fields	Nov/Dec 1947	USSR/Phys Magnetite Magnetic Permeability	Nov/Dec 1947
"Contemporary Problems of Magneto Arkad'yev, 6 pp "Izv Akad Nauk SSSR, Ser Fiz" Vo		"Accommodation of the Magneti Magnetite," R. I. Yanus, Ya. in, A. M. V'yukhina, Ural Sta Gor'kiy, 12 pp	S. Shur, V. V. Druzhin-
Magnetodynamics developed from st properties of ferromagnetic subst frequencies of magnetic field. P 1922 for development of these que indicating the study of processes both in periodic and aperiodic fi 1930's new fields were opened in	ances with various lan was suggested in stions in directions of magnetization elds. In the middle the phenomenon of	"Izv Akad Nauk SSSR, Ser Fiz" It was established experiment of magnetites when broken dow hibit in very sharp form capa and disaccommodation of magne the magnetite is subjected to	ally that some varieties n into fine powder ex- city for accommodation tic permeability. If
FDB	57 T 75	FDB	57 1 76
USSR/Phys (Contd)	Nov/Dec 1947	USSR/Phys (Contd)	Nov/Dec 1947
magnetization which must be relat such as viscous magnetization of nuclear magnetic resonance.	ed to magnetodynamics paramagnetics and	several times after lying for accommodating influences, the noticeably. If it is then ke dating influence, however, it turns to former condition.	permeability increases pt outside an accommo-
FDB	<u>57T75</u>	FDB	<u> </u>
USSR/Phys Ferromagnetism Energy - Dissipation	Nov/Dec 1947	USSR/Phys Lamination Recrystallization	Nov/Dec 1947
"Heterogeneity of Ferromagnetics a tional Losses of Energy During Mag I. Yanus, V. V. Druzhinin, Inst Ph Br, Acad Sci USSR, 1 p	gnetic Reversal," R.	"Study of Texture of Laminated lization by Magnetometric Meth Inst Phys of Metals, Ural Br,	hod," K. V. Grigorov,
"Izv Akad Nauk SSSR, Ser Fiz" Vol	L XI, No 6	"Izv Akad Nauk SSSR, Ser Fiz"	Vol XI, No 6
Evaluation of the possible order of of the sources of additional loss cates that their sum can show magn as well as the normal difference h and experimental values.	of magnitude of each es considered indi- nitude of this order	Gives results of study of text and recrystallization by magne- portance of such study lies in study of textual development p tion into the mechanism of pla- recrystallization. Magnetomet	etometric method. Im- n the fact that detailed permits deeper penetra- astic deformation and
FDB	57 T 77	FDB	57178
USSR/Phys Ferromagnetism Magnetostriction	Nov/Dec 1947	USSR/Phys (Contd) by N. S. Akulov, is distinguis	Nov/Dec 1947 Shed not only by its
"Magnetic Properties of Ferromagne Inst Phys of Metals, Ural Br, Acad	etics," Ya. S. Shur, I Sci USSR, 9 pp	convenience, simplicity, and r tative characterization of tex cases it is the only method pe	ture, but in many prmitting detailed
"Izv Akad Nauk SSSR, Ser Fiz" Vol	XI, No 6	study of textural development.	•
Path of curves of magnetostriction magnetization in the field of weak fluence of elastic strains on path curves, and change of electrical r magnetics in magnetic field, are u magnetic properties of ferromagnet in detail.	magnetic poles, in- of magnetization resistance of ferro- used to discover		
FDB	57T79	FDB	57178
	- 15		

RESTRICTED FDE	Periodical Absti	racts Scientific No 57	RESTRICTED
USSR/Phys Ferromagnetism Magnetic Measurements	Nov/Dec 1947	USSR/Phys Magnetostriction Invar	Nov/Dec 1947
"Magnetic Strain Diagram and Position Point on the Magnetization Curve," M. Sci Res Inst Phys, Moscow State U, 17	V. Dekhtvar.	"Temperature Dependence of the Ma Invar Alloys," K. P. Belov, O. N. Inst Phys, Moscow State U, 6 pp	gnetostriction of Agasyan, Sci Res
"Izv Akad Nauk SSSR, Ser Fiz" Vol XI	, No 6	"Izv Akad Nauk SSSR, Ser Fiz" Vo	1 XI, No 6
Author presents results of his resear fluence of initial distribution of el moments in elastic and plastic deform on its magnetic properties. Used res study of strain diagrams.	ementary magnetic	Invar, elinvar, kovar, and simila anomalies of their volume and ela with very complex dependence upon cording to present hypotheses, the anomalies is clearly connected with ism of these alloys, and primarily	stic properties temperature. Ac- e nature of these th the ferromagnet-
FDB	57 T 80	FDB	57T81
USSR/Phys Ferromagnetism	Nov/Dec 1947	USSR/Phys (Contd)	Nov/Dec 1947
Magnetism "Electrical Properties of Ferromagnet Vonsovskiy, Inst Phys of Metals, Ural USSR, 6 pp	Br, Acad Sci	character of flow of the ferromage phenomena. This study of magnetod alloys and especially the dependen ture is of interest since it makes mination of the nature of the anor of Invar-type alloys.	striction of these ncë upon tempera- s possible deter-
"Izv Akad Nauk SSSR, Ser Fiz" Vol XI	, No б		
All metals of the "transitional" group ferromagnetics, have sharply expressed electrical properties in comparison we metals. Basic cause of these "anomal: specific structure of the electron en- the "transitional" metals, resulting in	l "anomalies" of ith "simple" ies" lies in argy spectrum of		
FDB	57182	FDB	57181
USSR/Phys (Contd) layers in the electron shell of isolat these elements. In ferromagnetics, th the energy spectrum leads to the exist taneous magnetization which determines of the electrical "anomalies" of these	is detail of ence of spon- concrete form	USSR/Phys Magnetism Terrestrial Magnetic Fields - Earth "Magnetism of the Earth," Ya. I. F "Izv Akad Nauk SSSR, Ser Fiz" Vol Discusses secondary phenomena (per periodic variations), various hypo origin of the primary magnetic pol	XI, No 6 riodic and non-
		physical state of the earth's sphe us, the nucleus of the earth's sph erator with self-excitation, and q lation of turbogenerator theory of netism.	ere and its nucle- mere as turbogen- uantitative formu-
FDB	57182	FDB	57183
USSR/Phys Magnetostriction Cryst	Nov/Dec 1947	USSR/Phys Ferromagnetism Invar	Nov/Dec 1947
"Magnetostriction of Iron Silicide," D Inst Phys of Metals, Ural Br, Acad Sci	USSR, 6 pp	"Ferromagnetic Nature of Propertie Elinvar Alloys," K. P. Belov, Sci Moscow State U, 42 pp	s of Invar and Res Inst Phys,
"Izv Akad Nauk SSSR, Ser Fiz" Vol XI, Studies dependence of longitudinal most		"Izv Akad Nauk SSSR, Ser Fiz" Vol	XI, No 6
Studies dependence of longitudinal mag of monocrystals of iron silicide upon orientation, temperature, and magnetiz	crystallographic	On the basis of results of this st planation is given of the anomaly sion in Invar alloys and of the lo efficient of the modulus of elasti Using data obtained by measurement tion and susceptibility in the par	of thermal expan- w temperature co- city of elinvar. of magnetostric-
FDB	57184	FDB	57 T 85
	- 1	6 -	

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	USSR/Phys	Nov/Dec 1947	USSR/Phys (Contd)	Nov/Dec 1947
	Ferromagnetism Crystals - Lattices	,, -, -,		
	• · · · ·		correctness of the "ferromagnet the thermal expansion anomaly o	ic" explanation of financial field of figure for the second secon
	"Influence of Processes of Relaxat lization on Magnetic Properties of S. Shur, V. I. Drozhzhina, M. G. I Phys of Metals, Ural Br, Acad Sci	'Iron Silicide," Ya Mzhinskeva. Inst		
	"Izv Akad Nauk SSSR, Ser Fiz" Vol	XI, No 6		
	In experiments conducted difference netic properties due not only to d esses leading to correction of the (relaxation or recrystallization), difference in magnitude of the gra tallization, material with coarser ceived. FDB	ifference in proc- crystallic lattice but also due to	FDB	57185
	USSR/Phys	Nov/Dec 1947	USSR/Phys	Nov/Dec 1947
	Magnetostriction	101/200 1941	Ferromagnetism	NOV/Dec 194/
	Nickel		Magnetic Fields	
	"Temperature Dependence of Magneto G, P. D'yakov, Sci Res Inst Phys, 8 pp	Moscow State U,	"Magneto-Optic Methods of Study Alloys," M. M. Noskov, Inst Phy Acad Sci USSR, 4 pp	ing Ferromagnetic s of Metals, Ural Br,
	"Izv Akad Nauk SSSR, Ser Fiz" Vol	XI, No 6	"Izv Akad Nauk SSSR, Ser Fiz"	Vol XI, No 6
	Gives report of experimental resear dependence of magnetostriction of a of Akulov's theory in entire inter from the Curie point to the tempera nitrogen.	saturation and proof val of temperatures	Discusses influence of magnetic tion of light in substance.	field on distribu-
	FDB	57187	FDB	5 7T 88
1	USSR/Phys - Development	Nov/Dec 1947	USSR/Phys	Feb 1947
	"Soviet Physics for Thirty Years,"	A. F. Ioffe, 10 pp	Paremagnetism Magnetic Susceptibility	
. ("Izv Akad Nauk SSSR, Ser Fiz" Vol Contrasts condition of physics in t with the state of physics in prerev Indicates new lines of development	he USSR at present olutionary Russia.	"Measurement of Paramagnetic Sus Decimeter Waves," Ye. K. Zavoysk Sci USSR, 7 pp "Zhur Eksper i Teoret Fiz" Vol	riy, Kazan Br, Acad
			Measurement of active part of ma ity of paramagnetics in frequenc 5•10 ⁷ kc is accomplished by well pulsation. For higher frequenci precise and practical useful met has not been suggested. Necessi	ies not greater than -developed method of es, a sufficiently hod of measurement
	NDB	57189	FDB	57190
(JSSR/Phys Phosphorescence	Feb 1947	USSR/Phys (Contd)	Feb 1947
1 A	Electron Transitions and Decay of uminescence of NaCl Crystals With dditive Coloration," M. N. D'yache coentgen-Radiol and Oncological Ins	Subtractive and nko. Ukrainian Cent	obvious, especially to study par Study of the latter, and specifi of magnetospin resonance, led au tion of method they describe. A in English in "Journal of Physic 1947.	cally the phenomenon thors to considera- rticle also appears
11	Zhur Eksper i Teoret Fiz" Vol XVI	I, No 2	,	
v F r c	ecay of ultraviolet phosphorescence ith subtractive and additive color- conential law. In deformed crystal adiation consists of rapidly and s components. In radiation by visible	ation obeys ex- s phosphorescence lowly decaying		
F	DB	57191	FDB	57190
			7_	

	RESTRICTED FDB Per	riodical Abst	racts Scientific No 57	
	USSR/Phy3 (Contd)	Feb 1947	USSR/Phys	Feb 1947
	contrast to phosphorescence, has only on the inclination of which is equal to that	e component, t of the	Electrons - Emission Cathodes - Emission	100 174(
	rapidly decaying component of phosphores its emission energy is considerably great of each of the phosphorescence components	cence, while	"Electronic Emission From Complex Cathode Under Action of Strong El G. Brezhnev, Physicotech Inst, Ac	lectric Fields " B
			"Zhur Eksper i Teoret Fiz" Vol X	WII, No 2
	FDB		Electronic emission from complex cathode under action of strong el creases considerably with growth the light. In the absence of lig V/cm produce noticeable autoelect It is shown that electrons extrac	ectric field in- of wave length of ht, fields of 10 ⁵ fronic emission.
<u> </u>		57191	FDB	57192
	USSR/Phys Phosphorescence	Feb 1947	USSR/Phys (Contd)	Feb 1947
	"Ultraviolet Phosphorescence of NaCl Crys Subtractive and Additive Coloration at Lo tures," M. N. D'yachenko, 10 pp "Zhur Eksper i Teoret Fiz" Vol XVII, No	w Tempera-	belong to very narrow energy spec electronic observation of emittin varied picture. In the case of p whole illuminated surface emits u in autoelectronic emission only s with greatest field gradient radi	trum. Visual g surface gives hotoemission the niformly, whereas eparate places
	Studied these crystals in temperature ran -196°C to+250°C. In this range nine s of ultraviolet phosphorescence were recor- sing distinct spectral composition. In c additive coloration temperature dependence escence has smaller number of emission bas	eparate bands ded posses- rystals with e of lumin-		
	FDB	57193	FDB	57192
	USSR/Phys (Contd) with crystals having subtractive colorati amines observed phenomena from standpoint levels in colored crystals. Gives scheme account of new energy levels in X-rayed co NaCl.	of energy taking	USSR/Phys Waves, Surface Wave Propogation "Elastic Capillary Gravitational & A. Gubanov, Leningrad Physicotech USSR, 8 pp	Feb 1947 Surface Wayes."
		-	"Zhur Eksper i Teoret Fiz" Vol XV	VII, No 2
			Deduces equation for velocity of p waves on surface of elastic-viscon limiting case of small frequencies gives velocity of capillary gravi- liquid surface. For high frequenc limiting case, it gives velocity of	propagation of as body. In the s this equation tational waves on bies, as another
	FDB JSSR/Ships - Equipment and Supplies	57193	FDB	57 T9 4
·	Navigation, Surface	Dec 1947	USSR/Phys (Contd)	Feb 1947
" t	Fogs 'Navigating Speed for Vessels in Fogs," Ca or (Kapitan-Nastavnik), I. Moskalenko, UC	apt-Instruc- ChP, 3 pp	at surface of solid body. Uses me approximations to study cases comi two limits.	thod of successive ng close to above
	Morskoy Flot" No 12			
a c c S a	Contemporary shipboard equipment permits r safe navigation under all weather condition ase of poor visibility, however, such as are must be exercised to prevent collision tresses importance of slow speed during f mples of good procedure, and wrong proced esulted in collisions.	ns. In the fog, great ns.		
L	C	5 7T 95	FDB	a amo l.
		/ <u>////</u> /		57194