



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387

L 31877-66 _ENT(1)/ENT(m)/EIC(f)/ENP(0)/EMP(t)/ETI _ID(G) _WN/ID/IG/CD/AT/MH SOURCE CODE: WN/OD00/65/000/000/0199/0204 SOURCE CODE: UR/0000/65/000/000/0199/0204 (6/) AUTHOR: <u>Paderno, Yu. B.; Barantseva, I. G.; Yupko, V. L.</u> ORG: Institute of Materials Science Problems, AN UkrSSR (Institut problem materialo- vedeniya AN UkrSSR) TITLE: Determination of thermal conductivity and electrical resistance of ZrC, HFC, NbC, and TaC at high temperatures M W/D/IG/CD/AT/M SOURCE: AN UKrSSR. Institut problem materialovedeniya. Vysokotemperaturnyye neorgani- cheskiye soydeineniya (High temperature inorganic compounds). Kiev, Naukova dumka, 1965, 199-204 TOPIC TAGS: zirconium, hafnium, niobium, tantalum, carbide M ABSTRACT: The thermal conductivity and the <u>electrical resistance</u> of ZrC, HFC, NC, and TaC were determined in the <u>1370°-32700K range</u> . The measurements were made with an aparatus shown in figure 1. The samples were 8 mm in diameter and 15-18 mm in length apparatus shown in figure 1. The samples were 8 mm in diameter was 0.9 mm, the distance separating them was approximately 5 mm, and the distance between the potential zones separating them was approximately 5 mm, and the distance between the potential zones was 7-7.5 mm. The coefficient of thermal conductivity (λ) was calculated from the $\lambda = \frac{IU}{4\pi\Delta T} \cdot \frac{z^2 - z^4}{R^4}$.	
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L 32675-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JG/GD SOURCE CODE: UR/0000/65/000/000/0293/0256	
L 32675-66 EWT(1)/EWT(1)/ SOURCE CODE: UK/0005/00/	•
ACC NR: AT6013567 (A)	-
AUTHOR: Paderno, Yu. B.; Dudnik, Ye. M.; Andreyeva, T. V.; Barantseva, I. G.; Yupko, SUMER SUMMER	
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V. L. AN UKrSSR (Institut problem materialove	
AUTHOR: Paterino, 100 V. L. ORG: Institute of Material Science Problems, AN UkrSSR (Institut problem materialove-	
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ORG: <u>Institute of Matternal</u> deniya AN UkrSSR) TITLE: Measurement of the <u>thermal expansion</u> coefficients of ZrC, HfC, NbC, and TaC at	
TITLE: Measurement of the problem material over deniya. Vysokotemperaturnyye neorgani- high temperatures SOURCE: AN UkrSSR. Institut problem material over deniya. Vysokotemperaturnyye neorgani- source: AN UkrSSR. Institut problem material over deniya. Vysokotemperaturnyye neorgani- source: an UkrSSR. Institut problem material over deniya. Vysokotemperaturnyye neorgani- source: an UkrSSR. Institut problem material over deniya. Vysokotemperaturnyye neorgani- source: an UkrSSR. Institut problem material over deniya. Vysokotemperaturnyye neorgani- source: an UkrSSR. Institut problem material over deniya. Vysokotemperaturnyye neorgani-	
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cheskiye soyournensystem compound, tantalum compound, niobium compound, 1965, 293-296 TOPIC TAGS: zirconium carbide, hafnium compound, tantalum compound, niobium compound, 77	
1965, 250-200	
TOPIC TAGS: zirconium carbide, haine carBIDE	
heat expansion, and tantalum current of the second	
ABSTRACT: The thermal expansion of <u>zirconlum</u> ; <u>name</u> , <u>name</u>	L_
was studied in The thermal expansion was med 15-18 mm in length) were heated temperature	re
the literature and the samples (8 mm in diameter and by hot-pressing technique and the tarpet	
was studied in the thermal expansion was measured on in length) were heated excern the literature. The thermal expansion was measured on in length) were heated excern in which carbide samples (8 mm in diameter and 15-18 mm in length) were heated excern in which carbide samples (8 mm in diameter and 15-18 mm in length) were heated excern cally. The carbide samples were prepared by hot-pressing technique and the temperatur cally. The carbide samples were prepared by hot-pressing technique samples had the cally. The carbide samples micropyrometer. The individual carbide samples had the	
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can be measured by studying their depth in Sm, Eu, and Yb chalcogenides. A change in 7928-66 ACC NR: AP5027936 can be measured by studying men depen in one, Ed, and 10 charcogenides. A change in composition from LaSe1.5 to LaSe1.43 changes the electrical resistance by 13 orders of magnitude. The semiconducting properties of Sm, Eu, and Yb chalcogenides of the compomagnitude. The semiconducting properties of Sm, Eu, and YD chalcogenides of the compo-sition M_2X_3 - M_3X_4 and of oxychalcogenides M_2O_2 Te were predicted, and experimentally confirmed for M_2O_2 Te. Authors express their sincere appreciation to <u>G. V. Samsonov</u>, 55 corresponding member of AN UkrSSR, for his unflagging interest in the work and helpful comments. Orig./art. has: 4 figures and 4 tables. SUB CODE: IC, SS / SUBM DATE: 05Jul65 / ORIG REF: 011 / OTH REF: 029 2/2 Card

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oxides indicated the valency was less than 3. The spectra of Sm in SmB ₆ were interpreted to indicate the preserve of 35,40° divalent Sm distributed among trivialent Sm. The effect of temperature 1,100 to +8000 row the rope of 100 to +8000 row the row the rope of 100 to +8000 row the row t	т.: Т.:
ASSOCIATION. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR Institute of Inorganic Chemistry, Chemion Bisnon, AN SSP - Lostitute Setting Institute	}
SUBMITTED: 11Jun63ENCL: 00SUB CODE: 10, GCNR REF SOV: 007OTHER: 001	

L 32053-66, EWP(e)/EWT(m)/EWP(t)/ETI IJP(c) JD/JG/AT/WH	
ACC NR: AP6013341 (A) SOURCE CODE: UR/0363/66/002/004/0626/0629	
AUTHOR: Paderno, Yu. B.; Yupko, V.L.; Rud', B.M.; Makarenko, G.N.	
ORG: Institute of Materials Science Problems, Academy of Sciences UkrSSR (Institut problem materialovedeniya Akademii nauk Ukr SSR)	
TITLE: Physical properties of certain rare earth dicarbides	
SOURCE: AN SSSR. Izvestiya. Neorganicheskiy materialy, v. 2, no. 4, 1966, 626-629	
TOPIC TAGS: rare earth metal, carbide, electric property, Hall constant, thermoelec- tromotive force	
ABSTRACT: The temperature dependence of the electrical resistance in the 20 - 1300C temperature range, the coefficient of absolute thermoemf, the Hall coefficient at room temperature, and the melting point were measured on the same samples of Y, La, Ce, Pr, and Nd dicarbides. From these measurements, the charge carrier concentrations and mobilities were calculated. An anomalous temperature dependence of the electrical resistance was observed around 1000C. The high effective carrier concentration in CeC ₂ as compared to the other dicarbides studied is explained on the basis of the electronic	
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	SUBACE CODE: UR/0057/66/036/008/1435/1448 g
	AUTHOR: Samsonov, G.V.; Paderno, Yu.B.; Fomenko, V.S. 7.4
	ORG: Refractory Materials Section, Institute of Problems in the Study of Materials, AN UkrSSR, Kiev (Sektor tugonlaytikh materials,
	AN UkrSSR, Kiev (Sektor tugoplavkikh materialov Instituta problem materialovedeniya
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÷.,	TITLE: Concerning the thermionic emission characteristics of the transition metals
ب هر	16 14
•	SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 8, 1966, 1435-1448
	TOPIC TAGS: work function, thermionic emission, electron structure, transition
5	ABSTRACT: From considerations of elementary logic and a correct philosophical position concerning the relation of base to superstructure, the authors conclude that the main factor that determines the work function of a time time.
	layers, to which, they say, the majority of investigations doubt at the surface
	corresponding electronic structures and the enclusion
,	and a low statistical weight of the
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计指示和图察案件[[]和国际规律][[]] 06482-67 EWI(m)/EWP(e)/EWP(t)/ETI IJP(c) WH/JD ACC NR: AP6028294 SOURCE CODE: UR/0363/66/002/006/0980/0983 AUTHOR: Dudnik, Ye. M.; Lashkarev, G. V.; Paderno, Yu. B.; Obolonchik, 13 ORG: Institute of Materials Science Problems, Academy of Sciences, UkrSSR (Institut problem materialovedeniya Akademii nauk UkrSSR) TITLE Thermal expansion of rare earth chalcogenides >> $\boldsymbol{\nu}$ SOURCE: AN SSSR. Neorganicheskiye materialy, v. 2, no. 6, 1966, 980-983 Izvestiva. TOPIC TAGS: thermal expansion, selenide, telluride, rare earth compound ABSTRACT: The temperature dependence of the relative elongation of EuS, EuSe, La2Se3, Ce2Se3, Pr2Se3, Nd2Se3, Nd2Se3, Sm2Se3, Sm2S3, Pr2O2Te and Sm2O2Te was studied in the range from room temperature to 800 %. The measurements were made with a quartz dilatometer. In passing from the rare earth metals to their compounds with an ionic-covalent bond character, the thermal expansion coefficient a increases (with the exception of europium), apparently because of an increased anharmonicity of the thermal vibrations of the crystal lattice. The value of a of the chalcogenides increases in the rare earth series and in passing from sulfides to selenides; this is also due to increased anharmonicity. The a values of oxytellurides are intermediate between those of oxides and sesquisulfides. From the α values, the Debye tomperatures θ of the compounds were calculated and found to decrease with increasing atomic number of the rare earth metal (except in the case of semarium). The melting points of the sesquisele-Card 1/2 UDC: 546.651/659 851:536.413 the state of a state of the second state of th INTERNAL PROPERTY AND INCOME.

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ACC NR: AP6028294 mides were also estimated from the c values. Authors express their approciation to F. M. Mikhlina and V. G. Dom'yanchuk for assistance in the proparation of the compact samples and for performing chemical analyses of the rare earth chalcogenides, and also to S. V. Radzikovskaya and Ye. D. Lonova for carrying out the chemical analysis of pyrite and for assistance in the preparation of Sm ₂ S ₃ and EuS samples. Orig. art. ass: 4 tables and 3 formulas. SUB CODE: 07,20/ SUEM DATE: 29Jun65/ ORIG REF: 017/ OTH REF: 005	1. 06482-67				93 691 1364 - 69 64 7 - 4014 1 6 a res	
F. M. Mikhlina and V. G. Dom'yanchuk for assistance in the proparation of the compact samples and for performing chemical analyses of the rare earth chalcogenides, and also to S. V. Radzikovskaya and Yo. D. Leonova for carrying out the chemical analysis of pyrite and for assistance in the preparation of Sm ₂ S ₃ and EuS samples. Orig. art. has: 4 tables and 3 formulas. SUE CODE: 07,20/ SUEM DATE: 29Jun65/ ORIG REF: 017/ OTH REF: 005		24		n mener i silleringi silleri tidakengkanya ang		4
	T <u>. M. Mikhlina</u> and samples and for pe to S <u>. V. Radzikovs</u> pyrite and for ass	V. G. Dom'yanc rforming chemic kaya and Ye. D. istance in the	huk for assistand al analyses of Leonova for ca	nco in the p the rare ear rrying out f	proparation on the chalcoger the chemical	of the compact ides, and also analysis of
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	ulliss ashkar'ov, H. V.; Pade	Contraction of the second Entral			
	e electrical propertie		• · · ·	48	
TOPIC TAGE	<pre>krayins'kyy fizychnyy semiconducting mate</pre>	prial, <u>selenide</u> , rare	27 earth, forbidden zor		
the sesqui	The authors ran tests perties of Pr ₂ Se ₃ and selenides of the rare	earths should be comid	t their earlier thes	sis that	
was found for Nd ₂ Se ₃	and $a = f(10^3/T)$ for losure). The mean value to be 1.81 + ev; that (fig. 2 of the enclose	for Nd ₂ Se ₃ was 1.60.	one width ΔE_0 for the The function $\lg pT = 1$	to samples $f(10^3/T)$	
has: 2 fi ASSOCIATIO	gures, 1 table. N: Instytut problem ma	was less than unity fo	or both substances.	Orig. art.	
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ACCESSION NR: AP5013473 UR/0185/65/010/005/0520/0524	
AUTHOR: Lashkar'ov, H. V. (Lashkarev, G. V.); Paderno, Yu. B.; Radzikivs'ka, S.	č
V. (Radzikovskaya, S. V.); Fedorchenko, V. P.	
TITLE: Electric properties of Sm ₂ S ₃	
SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 5, 1965, 520-524	
λ	
TOPIC TAGS: samarium compound, lanthanide series, refractory compound, semicon-	
ducting material, electric conductivity, semiconductor band structure, sulfide	
ABSTRACT: A method is described for producing compact specimens of samarium ses-	
quisulfide and for measuring their thermoelectric power and electrical conductivi-	
ty. These parameters were studied in the $300-1300^{\circ}$ K temperature range. It is shown that Sm ₂ S ₃ is a refractory semiconductor in which the forbidden band has a	
width of 2.96 ev. The lengths of the Me-Me, Me-S and S-S bonds are calculated in	
known sesquisulfides (Me ₂ S ₃) of lanthanides with a Th ₃ P ₄ structure, and in SmS on	
the basis of ionic crystal radii. A comparison of these data shows that the co- valent S-S bonds are strengthened at the expense of a reduction in the strength of	
the ionic He-S bonds, which indicates that the chemical bonds in lanthanide sesqui-	

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ACCESSION NR: AP5013473		· • •··· · · · · · · · · · · · · · · ·			.00	
sulfides are ionic-covalent. SmS and Sm_2S_3 are compared. in Sm_2S_3 and that the forbidd	Interatomic spa It is found that	acing and th t there is n	ne physical 10 quasi-ext	propertie rinsic 4f	s of	
in Sm_2S_3 and that the forbidd Orig. art. has: 4 figures, 2	en band in this tables.	compound is	narrower t	han that	of SmS.	
ASSOCIATION: Instytut problem Problems in the Study of Mate	m materialoznavs	stva AN URSF	. Kiev (Ins	titute of		
	Iuis, At UKSK)	44.55			<u> </u> -	•
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4	CC NR: AP5025901 IJP(C) JD/ SOURCE CODE: UR/0057/65/035/010/1860/1862 JG/AT/WH	
	UTHOR: Paderno, Yu. B.; Pomenko, V. S.; Podchernyayeva, I. A.; 63 akarenko, G. N. 1975	
	RG: Institute for the Study of Problems of Material Sciences, AN SSSR	
	iev (Institut problem materialovedeniya AN SSSR) 44,55	
	ITLE: Thermionic emission from CeC ₂	
	OURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 10, 1965, 1860-1862	
	OPIC TAGS: thermionic emission, rare earth metal, <u>cerium</u> c <u>arbide</u> , 7 arbide, cathode, cerium bicarbide	
	BSTRACT: The thermal emission properties of CeC2, whose electronic tructure resembles that of ThC2 (which is known to be a good emitter)	
	ave been investigated in the temperature range of 1200-1770K, in view f the possible use of the material for the production of efficient	
	athodes. The methods and instrumental setup used for the experiments are described in an earlier work (Samsanov, G. V., V. S. Fomenko, V. N	
	aderno, and B. M. Rud'. Teplofizika vysokikh temperatur, 2, 730, 964). Suspended in absolute alcohol. the carbide was deposited onto	
1	tantalum substrate upon which it formed a 0.2-0.3-mm-thick layer. o prevent oxidation, the deposition did not last more than three	
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238" MENANE EXACUL REPRESENTATION

in Val 15 H

L 4988-66 ACC NR: AP5025901 minutes. The measurements of the work fun- tion process showed a minimum of 2.49 ev a tion process showed a minimum of 2.49 ev a unchanged until 1520K, when an insignifica- unchanged until 1520K, when an insignifica- tion was attained rapidly when the station At any given fixed temperature, the station tion was attained rapidly when the cathoder tion was attained rapidly when the cathoder good emission properties of CeC2 are indiced with the work function changing from 3.20 with the vork function changing from 3.20 in leads to a value of 17 amp/cm2 at 23 tion leads to a value of 17 amp/cm2 at 23 tion leads to a value of 17 amp/cm2 at 23 tion leads to for the electronic structure on influence of the electronic structure on influences. materials. Orig. art. hast 2 figures.	nary value of was high. The temperature was high. The tated by its fast activation, to 2.49 ev in the temperature t density actually measured t density actually measured
influence of orig. art. hasi 2 115 materials. Orig. art. hasi 2 115 SUB GODE: EM, IC/ SUBM DATE: O5Feb65/ ORI ATD PRESS: 4/3/ GC Card 2/2	

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L 57105-65 EXP(a)/EMP(i)/EMP(i)/EPF(a)-2/EMG(m)/EPR/EJP(t)/EMP(b) Ps-4/ F1-L IJF(c) JD/JG/AT/MH ACCESSION NR: AP5015438 UR/0185/65/010/006/0622/0529	
AUTHOR: Samsonov, H. V. (Samsonov, G.V.); Paderno, Yu. B.; Fomenko, V.S.	
HILL: Thermal emission characteristics of transition metals and their compounds	
SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 6, 1965, 622-629	
TOPIC TAGS: work function, thermionic emission, transition emission, transition metal, refractory compound, electron configuration, boride structure, nitride structure, silicide structure, carbide structure //	
ABSTRACT: The purpose of this article was to bring together some of the data collected to date on the thermal emission properties of various transition metals. The authors discuss the relationship between the electronic structure of transition metals, their alloys and compounds with boron, carbon, silicon and nitrogen, and the characteristics of their thermal emission. The article shows the work function of different transition metals and their carbides, borides, nitrides, and silicides as a function of their atomic number (Figure 1 of the Enclosure). The effects of the electron configurations in alloys of trans- sition metals containing d-electrons, transition metals with other metals containing the	
sition metals containing d-electrons, transition metals with other metals with other metals on and nitrogen outer s- and p-electrons, and transition metals with boron, carbon silicon, and nitrogen are considered with respect to their work function. It is shown that the electronic work	
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•••	L 12965-65 EMP(e)/EMT(m)/T/EWP(t)/EMP(b)/EMA(c) IJP(c) JD/JO ACCESSION NR: AP5009426 S/0239/64/000/003/0078/0084
	AUTHOR: Samsonov, G.V.; Paderno, Yu. B.; Vaynshteyn, E. Ye.
	TITLE: Chemical bonding in rare earth hexaborides
	SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 3, 1964, 78-84
	TOPIC TAGS: rare earth, rare earth hexaboride, hexaboride structure, hexaboride electromagnetic property, hexaboride physical property
	ABSTRACT: The luthors discuss the bonding of rare earth hexaborides in terms of the work reported in the literature and their own contributions. The analysis of the structures and properties of the hexaborides reveals their dual nature. On the one hand, their crystal lattice may be regarded as a simple cubic lattice of metal itoms with its center occupied by an octahedron of boron atoms which listort it to some extent: on the other hand, it may be regarded as a simple cubic lattice made up of a group of boron. atoms, at the center of which the atoms of the metal are treely listributed. Accordingly, the electric and magnetic properties of the nexaborides in e., the properties related to the energy levels of the electrons, are determined to the metal forming the
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point, hardness, etc.) are o boron atoms and is relativel forming the hexaboride. Or	y independent of the p	particular properties of u	e metai
ASSOCIATION: Institut neon	rganic Chemistry, Si	beria: Branch, Academy	or sciences
of the SSSR. Institute of mo of the SSSR. Institut metally Powder Metallurgy and Spec	nal Alloys, Academy	of sciences of the Ukrain	an bày
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ACCESSION NR: AP4015271	£U1 0228/64/00 0/001/0113/0114
AUTHOR: Paderno, Yu. B.	Ć
TITLE: All-Union inter-institutional coni	ference
SOURCE: Poroshkovaya metallurgiya, no TOPIC TACS: <u>powder metallurgy</u> , cerms refractory metal manufacture <u>refractory</u> shemical property refractory metal stru	et, heat resistant metal, heat resistant alloy. y metal ¹ physical property. refractory metal
TOPIC TACS: <u>powder metallurgy</u> , corms refractory metal manufacture refractory ebemical property refractory metal stru ABSTRACT: The author reports on a con	et, heat resistant metal, heat resistant alloy. y metal ¹ physical property. refractory metal

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properties at high temperature "Marth determination due the pro- V. Nie and the <u>allicides</u> , <u>germa</u> Nie and the <u>allicides</u> , <u>germa</u> Nie and the <u>allicides</u> , <u>germa</u> Nie and the <u>allicides</u> <u>germa</u> Nie and the <u>allicides</u> <u>germa</u> Nie and the <u>allicides</u> <u>germa</u> Nie and the <u>allicides</u> <u>germa</u> which is a negative to the same of the statistic of the nature of	Ties of refractory compounds, and the second	
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EWA(k)/EWT(1)/EWT(m)/EPF(n)-2/EPR/EEC(t)/EPA(bb)-2/EWP(b)/EWP(e)P5-4/ PU-4 AFWL APGC(D)-BSD/ASD(a)-5/AS(mp)-2/ESD(q5)/ESD(t) JD/JG/AT/WH ACCESSION NR: AP4046596 1 12445-65 ACCESSION NR: AP4046596 Vaynshteyn, E. Ye.; Blokhin, S. N.; Paderno, Yu. B. AUTHOR : X-ray spectral investigation of Bamarium hexaboride 27 TITLE: 2909-2912 SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1954, TOPIC TAGS: samarium compound, x ray spectrum, absorption spectrum, europium compound, ytterbium compound, fine structure The samarium hexaboride was obtained by a vacuum-thermal method (G. V. Samsonov and Yu. B. Paderno, Boridy* redkozemel'ny*kh metallov [Borides of Rare Earth Metals], AN UKrSSR, Kiev, 1961). For comparison and to facilitate the interpretation of the data, x-ray L_{III} absorption spectra were obtained for europium, ytterbium oxide, and hexaboride, using the same experimental conditions. The absorption spectra were obtained with a DRS-3 long-wave x-ray spectrograph in the first order of reflection from the (1340) plane 1/3 Card

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1 12445-65 ACCESSION NR: AP4046596 0 of a quartz crystal. The spectra were recorded photographically. The $L_{\alpha 2}$ and $L_{\alpha 3}$ lines of europium were used as the comparison lines. The structure of the L_{III} absorption edges of samarium in SmB₆ was investigated in the interval from -120 to +400C. An analysis of the fine structure indicates that the samarium atoms exist in SmB₆ in two different valence states, which are statistically distributed in crystallographically equivalent positions of the lattice of the compound. The absorption spectrum of samarium in SmB6 has several features distinguishing it from hexaborides of other rare-earth metals. Chief among these features is the presence of an additional absorption band whose maximum is shifted by about 7 eV towards the longer wavelengths compared with the principal maximum. This hypothesis is confirmed by plotting the theoretical absorption curves corresponding to the different relative contents of the divalent and trivalent samarium and a corresponding analysis. It is estimated that the divalent samarium may amount to $\sim(35 \pm 5)\%$ of the total number of samarium atoms. Orig. art. has: 3 figures. Cord 2/3

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AUTHOR: <u>Samsonov</u> . Serbina, R. V.; <u>iro</u> n	G. V.: Obolonchik, nenko, V. S.;Ogorodn	V. A.; <u>Paderno, Yu, B</u> .; ikov, V. V.	
binary lanthanum-se	dium boride	d chemical properties of the 37, no. 9, 1964, 1872-1878	
TOPIC TAGS: boride lanchanum sodium be boride property	e, lanthanum boride, oride synthesis, bor	lanthanum sodium boride, ide synthesis, lanthanum sodi	u M
trolysis of a fuse sodium fluoride, an formed at 900-950 cathode deposits of	d salt electrolyte c nd 15 glatthanum oxi C with a current den btained under the ab dium 36 85 borget 0	boride was obtained by elec- consisting of 100 g porax, 30 y de. The electrolysis was pro- sity of 0.5 amport. The nove conditions contained to w 442 free carbon, and no tree of by changing the ampont of	-
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borax in the electrolyte. X-ray diffraction patterns of three binary borides of different compositions contained only the lanthanum hexeboride lines. The increase of the lattice constant with Horneasing sodium content indicates that around atoms first replace laboration atoms in the lanthanum bexample clattice and then replace ortalodrai (chr.comt.exe.). 1998 to 1916 - Conte · · · · web less tests?...t memeases Strettin t , e € als if creases liseatly line . . . work rootton has a tendenty to increase one the urre trop structs bottlde is the consule press to the lessen lide, of the attentiation of apademic in the second ASSOCIATION: none SUBMITTED: 07Jan63 ATD PRESS: 313. ENCL: 00 NO REF SOV: 005 OTHER: 005 SUB CODE: IC, GC Cord 2/2

ACC NR: AP7004402 SOURCE CODE: UR/0226/67/000/001/0081/0084	
AUTHOR: Rud', B. M.; Paderno, Yu. B.	
ORG: Institute of Problems in Science of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)	
TITLE: Physical properties of lanthanum disilicide in the region of homogeneity	
SOURCE: Poroshkovaya metallurgiya, no. 1, 1967, 81-84	
TOPIC TAGS: physical property, lanthanum disilicide, homogeneity, solid solution	
ABSTRACT: The existence of a continuous transition between structures of α -ThSi ₂ and α -GdSi ₂ in the region of homogeneity of lanthanum disilicide, detected by the x-ray structural analysis method, has been confirmed. A decrease in the statistical weight of sp ³ -hybridization of Si electrons causes rhombic distortion of the structure. With an increase in the deficit of Si atoms in lanthanum disilicides, there is an increase in the specific electric resistivity and Hall's coefficient due to filling of the 3p-band of silicon. The authors express their gratitude to G. V. Samsonov and Ye. I. Gladyshevskiy for valuable comments. Orig. art. has: 3 figures. [Authors' abstract] [AM] SUB CODE: 11/SUBM DATE: 10Aug66/ORIG REF: 008/OTH REF: 001/	

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A	isolated atom nature of the has: 1 figure	of NdGaSe ₃ is explained ms and their ionization p e chemical bonding in ch e and 3 tables. [Authors	on the basis of the electron structure of otential. An hypothesis is advanced as to t alcogenides of rare-earth metals. Orig. a ' abstract] [NT]	he rt.
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的目的并且在自己的自己的问题,并且是

ACC NR: AP7003531 SOURCE CODE: UR/0363/67/003/002/0395/0397 AUTHOR: Paderno, Yu. B.; Yupko, V. L.; Rud', B. M.; Kvas, O. F.; Makarenko, G. N. ORG: Institute of Material Science Problems, AN UkrSSR (Institute problem materialovedeniye AN UkrSSR) TITLE: Electrophysical properties of Gd, Tb, Dy, Er, Tu dicarbides SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 3, no. 2, 1967, 295-397 TOPIC TAGS: gadolinium discribic, terbium discribic, dysprosium carbide, resistivity, Hall effect, carrier density ABSTRACT: The results are presented of an experimental determination of the electrophysical properties of Gd, Tb, Dy, Er, and Tu dicarbides. Initial rowder carbides were obtained by the reduction of metal oxides with carbon in vacuum at 1800°C for 25-60 min. The carbide powders were compacted and sintered in argon at 1700-1800°C for 15 min under a pressure of 100 kg/cm2; the porosity of sintered compacts was 5-135; finished specimens were annealed at 1650°C for 8 hr. It was found that carbide resistivity changed from 30 μ chm.c. for GdC2 to 515 μ chm.cm for Cord 1/2 546.65'261:541.12.03 UDC:
ACC NR AF7008531 TuC₂; the coefficient of emf from -5.95 µV/°C for ErC₂ to -7.75µ v/°C for TbC₂; Hall effect from -2.55 cm³/coul for TbC₂ to +136 cm³/coul for TuC₂; effective carrier concentration from 0.018 el/atom N for TuC₂ to 1.04 el/atom N for TbC₂; and mobility from 6.75 cm²/v. see for ErC₂ to 19.6 cm²/v. see for TuC₂. Melting points ranged from 2180°C for TuC₂ to 2280°C for ErC₂. Orig. art. has: 1 figure and 2 tablet. [TD] SUB CODE: 11/ SUEM DATE: 13Jan66/ ORIG REF: 009/ OTH REF: 008 Cord 2/2



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PHASE I BOOK EXPLOITATIONSOV/5758Samsonov, Grigoriy Valentinovich, and Yuriy Borisovich PadernoBoridy redkozemel'nykh metallov (Borides of Rare-Earth Metals) Kiyev, Izd-vo AN UkrsSSR, 1961. 92 p. 1500 copies printed.Sponsoring Agency:Akademiya nauk Ukrainskoy SSR. Institut metallo- keramiki i spetsial'nykh splavov.	
Boridy redkozemel'nykh metallov (Borides of Rare-Earth Metals) Kiyev, Izd-vo AN UkrsSSR, 1961. 92 p. 1500 copies printed. Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut metallo- keramiki i spetsial'nykh splavov.	
Izd-vo AN UkrsSSR, 1961. 92 p. 1960 copies prince Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut metallo- keramiki i spetsial'nykh splavov.	
keramiki i spetsial'nykh spikvov.	
Resp. Ed.: I. N. Frantsevich, Corresponding Member, Academy of Science UkrSSR; Ed. of Publishing House: I. V. Kisina; Tech. Ed.: T. R. Liberman.	
PURPOSE: This booklet is intended for scientific workers and engineer concerned with cathode electronics, high-power electronic devices, the synthesis of refractory compounds.	3 and
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SHTEYNBERG, L.D.; PADEROVA, N.M.

STATISTICS STATISTICS STATISTICS STATISTICS

So-called ambulatory forms of rheumatism in children. Pediatriia, (CIML 21:4) Moskva No.4:10-17 July-Aug 51.

1. Of the Department of Faculty Pediatrics, Voronezh Medical Institute (Head of Department---Prof. L.D. Shteynberg), and of the Antirheumatic Room of the Specialized Children's Polyclinic (Head of Polyclinic--K.N. Laptina).

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Faderta, E.
"The charging processs in a Marx surge-generator circutt while the d. c. powder supply is being progressively increased.
p. 143 (Prace, Vol. 6, 1956 (Published 1957) Praha, Czechoslovakia)
Monthly Index of East European Accessions (EFAI) LC, Vol. 7, No. 6, June 1958

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PADERTA, B.

Third harmonic voltage in the generator-transformer with direct grounding of the neutral point. p.151. (Elektrotechnik, Vol. 12, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

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PADERTA, B.

TECHNOLOGY

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Periodical ACTA TECHNICA. VOL. 3, no. 6, 1958

PADERTA, V. HELLER, B.: Internal overvoltages in transformers due to no-lead switching. In german. p. 399.

Monthly List if East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

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PADERTA, B.

"Surge tests of electric transformers. <u>Technicks</u>."

Elektrotechnicky Obzor. Praha, Czechoslovakia. Vol. 48, no. 2, Feb. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

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Determining the distribution curve of the breakdown cumulative rate by two measurements. El tech cas 16 no.3:165-171 '65.

1. Institute of Electrical Engineering of the Czechoslovak Academy of Sciences, Prague, Vaclavske namesti 55. Submitted July 2, 1964.

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PADERTA, Bedrich, inz., kandidat technickych ved

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Influence of the magnetic circuit and internal resistance of winding on the damping of surge processes. El tech obzor 52 no.7:348-354 Jl ¹63.

1. Ceskoslovenska akademie ved.

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PADEKTA, Bedrich, inz., kandidat technickych ved; KUGERA, Jaroslav, inz., kandidat technickych ved.
Problems in surge tests of large transformers. El tech obzor 50 no.ll:634-638 N '6l.
1. Ustav pro elektrotechniku, Ceskoslovenska akademie ved (for Paderta). 2. kaborator velmi vysokeho napeti Energetickeho ustavu v Prze (for Kucera).



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PADERTA, Bedrich, inz., C.Sc.

Determination of compensating currents in a winding with parallel branches of a transformer with n-layers. El tech cas 13 no.1:36-56 '62.

REAL PROPERTY OF THE PROPERTY

1. Vedecky pracovnik, Ustav pro elektrotechniku, Ceskoslovenska akademie ved, Vaclavske namesti 55, Praha 1 - Nove mesto.

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PADERTA, Bedrich; VINAR, Frantisek

Detection of defects by impulse testing of transformers. Acta tech Cz 5 no.6:553-583 '60. (EEAI 10:4)

1. Institut fur Elektrotechnik der Tschecheslowakischen Akademie
der Wissenschaften, Praha.
 (Electric transformers)

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HEILER, Bedrich, Akademiker; Faushra, Rerich, inz. CSn.; HNAR, Frantisek, inz. CSC.
Surge phonomena in combined transformer windings. Acta techn Cz 9 no.2297-203 164



CIA-RDP86-00513R001238 "APPROVED FOR RELEASE: Tuesday, August 01, 2000

L 20229-66 ACC NR: TP6010322 SOURCE CODE: CZ/0042/65/000/003/0165/0171 AUTHOR: Paderta, Bedrich (Engineer; Candidate of sciences) 21 R ONG: Institute of Electrical Engineering, CSAV, Prague (CSAV, Ustav pro elektrotechniku) TITLE: Determination of the distribution curve of the cumulative rate of breakdown with two measurements SOURCE: Elektrotechnicky casopis, no. 3, 1965, 165-171 TOPIC TAGS: pulse counting, voltage, distribution function ABSTRACT: In measuring two different voltages mutually near probability of breakdown a large number of pulses must be used on both voltages oven when no great emphasis is laid on the precision of the determination of the width of the breakdown distribution curve. The necessary number of pulses is derived considering the probability of placing the mean value in both limiting cases of the assumed binomial distribution. Thus as much as 95% reliability is achieved that no mean value of a subsequent series of measurements will be outside the determined precision. This paper was presented by J. Kucera. Orig. art. has: 4 figures and 18 formulas. /JPRS/ Card 1/1 SUB CODE: 09 SUBM DATE: 02Jul64 / ORIG REF: 001 OTH REF: 001

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PHASE I BOOK EXPLOITATION SOV/4408

Československá akademie véd. Sekce technická

- Práce ústavu pro elektrotechniku ČSAV z r. 1957, VIII (Proceedings of the Institute For Electrical Engineering of the CSAV (Czechoslovak Academy of Sciences) for 1957, Nr 8) Prague, 1958. 146 p. 1,250 copies printed.
- Scientific Ed.: Miloslav Tayerle, Engineer, Doctor; Chief Ed.: Bedřich Heller, Corresponding Member, Czechoslovak Academy of Sciences, Doctor, Engineer, State Prize Winner; Ed. of this issue: Marie Moravcová; Tech. Ed.: František Končický.
- PURPOSE: This collection of articles is intended for specialists in the field of high-voltage technique.
- COVERAGE: The collection contains 9 original papers devoted to high-voltage technique and to special problems of heavy-current engineering. The papers deal with calculation of magnetic fields and short-circuit stresses, with the finding of turn short circuits and thermal breakdowns, and with effects of semiconductor coatings on windings. The investigation of lightning Card 1/4

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Proceedings of the institute (Cont.) SOV/4408		
There are no references.		
V. Veverka, Antonin. Thermal Breakdown of an Insulating Cy- lindrical Wall Under the Conditions of Heat Generation in the Internal Electrode There is 1 French reference.	7 <u>b</u>	
VI. Veverka, Antonín, and Jiří Chládek. Semiconducting Coating at the Exit of the Winding From the Slot There are 2 references, both Czech.	86	
VII. Lesný, Vilém, and František Vlnař. Investigation of Spark-over Arrester Characteristics With Special Con- sideration for Very High Voltages There are 10 references: 2 Czech, 4 English, and 4 German.	93	-
VIII. Hamata, Václav. Transfer of a Charge in Electrostatic Machines With a Dielectric Transmitter There are 3 references: 2 Czech and 1 French.	121	
Card 3/4		

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"APPROVED FOR RELEASE: Tuesday, August 01, 200 CIA-RDP86-00513R001238 PADESHNOV, A.I. Calendar of noteworthy dates. Geog. v shkole 26 no.1:80-86 Ja-F (MIRA 16:5) 63. (Anniversaries)

5269	"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513F	KOO1238
	PADEV, R	
	"Frotecting seeded fields from insects during winter", p 78 (KOOPFRATIVIO ZEFEDELLE, Vol 6, #3, Mar. 1951, Bulgaria)	·
	East European Vol 2 #8 SO: Monthly List of Ruentum Accessions,/Library of Congress, August 1953, 1	Incl.



S AREAS STREET 計 公司的中国政治 建制建筑和机构 中 医曼克斯曼氏 网络拉马斯 1 Statistics 1000 PADEVE', Karel Festival of technical motion-pictures in Budapest. Tech praca 14 no.3:215-216 M '62. 6 1. Fredseda odborne komise pro technicke filmy pri Statnim vyboru pro rozvoj techniky.

的名词形的思想。 医后端后周的 网络马拉斯马拉斯马拉斯马拉斯马拉斯马拉斯马拉斯马拉斯马拉斯

CZECHOSLOVAKIA / Microbiology - General Microbiology. F Abs Jonn: Ref Zhur-Biol., No 9, 1958, 38283. Author : Kalina, C., Padevet, M. : Not given. Inst : New Method for Staining Microorganisms. Title Orig Pub: Ceskosl. mikrobiol., 1956, 1, No 4, 183-188. Abstract: The method consists of staining non-fixated bacteria with methylene blue and subsequent oxidation with potassium ferricyanide or hydrogen peroxide and counterstaining by basic fuchsin. In these cases, in some of the bacteria studied a double stain appears; actively metabolizing cells are stained greenblue or blue, and inactive ones are stained red. This phenomenon is not observed in other bacteria. 46 Card 1/2

CABIT, V.; ROTH, S.; PADETAT, M.

On the question of the correction action of recaysing ingrid. Bohemosloy, 13 no.68594-598 164

1. Laboratory for Research on the Nathology, Therapy and prevention of Infectious Diseases. Faculty of Daedistries, Chirles University, and Institute of Isdustrial Hygiene and Cherpational Diseases, Fragma.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012387
SOBEK, V.; KARGEROVA, A.; PADEVET, M.

Effect of pyrocatechin on the detoxication of neomycin. Bratisl. lek. listy 45 no.3:142-146 15 F '65.

1. Laborator pro vyzkum pathologie, terapie a prevence infekcnich chorob; Faklulty detskeho lekarstvi Karlovy Univerzity v Praze (reditel: prof. MUDr. J. Prochazka, DrSc.).

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BESTAKOVA, Zdenka; KALINA, Cestmir; PADEVET, Milos
                               Meningoencephalitis caused by Candida pseudotropicalis.
       Cas. lek. cesk. 95 no.43:1185-1188 26 Oct 56.
      1. Bakteriologicko-serologicke oddeleni (prednosta doc. MUDr.
      V. Wagner) a infekcni klinika (prednosta prof. MUDr. J. Pochazka)
       nemocnice na Bulovce, Praha 8, Z. B., Praha 8 - Bulovka.
           (MENINGOENCEPHALITIS, etiol. & pathogen.
              Monilia pseudotropicalis in chickenpox in child (C_z)
           (CHICKENPOX, in inf. & child
              with meningoencephalitis caused by Monilia pseudotropicalis
              (C_z)
           (MONILIA, infect.
              meningoencephalitis caused by Monilia pseudotropicalis
              in chickenpox in child (Cz))
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NEJEDIY, Bedrich; KRISTAL, Antonin; PADEVET, Miroslav New urine test. Gas. lek. cesk. 97 no.22:669-691 30 May 58. 1. Ustredni laborator OUNE v Kladne, prednosta MUDr. Bedrich Nejedly. B. N., Kladno, OUNE. (URINE urinalysis, new technic (Ga))

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ISAMUKHAMEDOV, I.; PADEYSKAYA, Ye. N.; FOLUKHINA, L. M.; FERSHIN, G. N.

"The treatment of experimental pneumococcal meningitis with long-acting sulfonamides."

report presented at 4th Intl Cong, Hungarian Soc of Microbiologists, Budapest, 30 Sep-3 Oct 64.

All-Union Sci Res Chemico Pharmaceutical Inst im Ordzhonikidze, Moscow.

JSSR/Medicin	- Ántibiotics
Card 1/1	Pub. 86 - 18/37
luthors	: Pershin, G. N., Prof.; and Padeyskaya, E. N.
litle	: Local application of "synthomycin"
Periodical	: Priroda 43/10, 97-98, Oct 1954
	: Priroda 43/10, 97-98, Oct 1954 : "Synthomycin", a new Soviet preparation is described. It has been used in the treatment of dysentery, typhus and many other diseases. It is new found that an emulsion can be made with this preparation and applied locally to purulent wounds and skin afflictions and in some special cases of surgery.
Periodical Abstract Institution	: "Synthomycin", a new Soviet preparation is described. It has been used in the treatment of dysentery, typhus and many other diseases. It is new found that an emulsion can be made with this preparation and applied locally to purulent wounds and skin afflictions and in some special cases of surgery.
Abstract	: "Synthomycin", a new Soviet preparation is described. It has been used in the treatment of dysentery, typhus and many other diseases. It is new found that an emulsion can be made with this preparation and applied locally to purulent wounds and skin afflictions and in some special cases of surgery.

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PERSHIN, G.N.; PADEYSKAYA, Ye.N.; YAKOVLEVA, A.I.; BELOZEROVA, K.A.
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1. Is Veesoyusnogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni Ordshonikidse.
(ARTHRITIS, RHEUNATOID, exper.
in white rats (Rus))



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PADEYSKAYA, Ye.N.; POLUKHINA, L.M.

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Sulfanilamide preparations with prolonged action; a review of literature. Farm. i toks. 27 no.3:370-376 My-Je '64. (MIRA 18:4)

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1. Laboratoriya khimioterapii infektsionnykh zabolevaniy (zav. chlen-korrespondent AMN SSSR prof. G.N.Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni Ordzhonikidze, Moskva.

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PADEXSKAYA, Ye.N.; GRANDBERG, I.I.; PERSHIN, G.N.; KOST, A.N.; OVSENEVA, L.G.; DIN VEY-PY

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1. Kafedra organicheskoy khimii Moskovskogo universiteta i Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

(Pyrazole)

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ABRANOVA, Zh.I., kand. med. nauk; ANICHKOV, S.V., prof.; BELEN'KIY, M.L., prof.; VAL'DEAN, A.V., doktor med. nauk; VEDENEYEVA, Z.I., kand. med. nauk; VINOGRADOV, V.M., kand. med. nauk; GERSHANOVICH, M.L., kand. med. nauk; GINETSINSKIY, A.G., prof.; GORBOVITSKIY, S.Ye., prof.; GREHENKINA, M.A., dotsent; GREKH, I.F., dots.; DENISENKO, P.P., kand. med. nauk; D'YACHENKO, P.K., kand. med. nauk; ZHESTYANIKOV, V.D., kand. med. nauk; ZAUGOL'NIKOV, S.D., prof.; ZEYMAL', E.V., kand. med. nauk; ISKAREV, N.A., kand. med. nauk; KARASIK, V.M., prof.; KIVMAN, G.Ya., kand. med. nauk; KOZLOV, O.D., kand. med. nauk; KROTOV, A.I., doktor veter, nauk; KUDRIN, A.N., doktor med. nauk; LAZAREV, N.V., prof.; LAPIN, I.P., kand. med. nauk; MEL'NIKOVA, V.F., prof.; MESHCHERSKAYA, K.A., prof.; MIKHEL'SON, M.Ya., prof.; MOSHKOVSKIY, Sh.D., prof.; PADEYSKAYA, Ye.N., kend. med. nauk; PARIBOK, V.P., prof.; PERSHIN, G.N., prof.; PLANEL'YES, Kh.Kh., prof.; PONOMAREV, G.A., prof.; POSKALENKO, A.N., kand. med. nauk; MUKHIN, Ye.A., dots.; ROZOVSKAYA, Ye.S., dots.; RYBOLOVIEV, R.S., starshiy nauchnyy sotr.; SALYAMON, L.S., kand. med. nauk; SAFRAZBEKYAN, R.R., kand. biol. nauk; TIUNOV, L.A., kand. med. nauk; TOMILINA, T.N., dots.; FELISTOVICH, G.I., kand. med. nauk; FRUYENTOV, N.K., kand. med. nauk; KHAUNINA, R.A., kand. med. nauk; TSYGANOV, S.V., prof.[deceased]; CHERKES, A.I., prof.; (Continued on next card)

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ABRAMOVA, Zh.I..--(continued) Card 2. CHERNOV, V.A., doktor med. nauk; SHADURSKIY, K.S., prof.; YAKOVLEV, V.Ya., doktor khim. nauk; MASHKOVSKIY, M.D., red.; NIKOLATEVA, M.M., red.; RULEVA, M.S., tekhn. red.; CHUNAYEVA, Z.V., tekhn. red.
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VASIL'YEV, Pavel Grigor'yevich, dotsent, kand.ekonom.nauk; DROBOZINA, Lyudmila Aleksandrovna, kand.ekonom.nauk; PAVLOVA, Lidiya Patrovna, kand.ekonom.nauk; PADEYSKIY, Nikolay Aleksandrovich, dotsent, kand.ekonom.nauk; POPOV, Andrey Nikolayevich, kand. ekonom.nauk; SKACHKO, Aleksandr Borisovich, dotsent, kand.ekonom. nauk; MOSKVITINA, L.P., red.

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[Finance of capitalistic states; textbook] Finansy kapitalisticheskikh gosudarstv; uchebnoe posobie. Moskva, M-vo vysshego i srednego spetsial'nogo obrazovaniia SSSR. Vses.zaochnyi finansovoekon.in-t, 1959. 434 p. (MIRA 13:7)

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PADEYSKIY, V.N.; Prinimali uchastiys: MIKHYEVA, M.I.; SHIHAYEVA, T.N.; VOYTSESHCHUK, A.K.

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"The Microorganic Flora of Wounds in the Clinic and During Penicillin Therapy of Experimental Staphylococcus Infections." Sub 11 Jun 51, First Moscow Order of Lenin Medical Inst. Cand. Med. Sci.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

SAMOYLOV, Innokentiy Ivanovich; BIBIK, Antonina Yefimovna; SHEVYAKOV, Filipp Nikolayevich; PADEZHNOV, A.I., red.; NGVOSELOVA, V.V., tekhn. red.

> [Problems of teaching economic geography in evening (staggered) school]Voprosy prepodavaniia ekonomicheskoi geografii v vechernei (smennoi) shkole. Moskva, Izd-vo APN RSFSR, 1962. 68 p. (MIRA 15:9)

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ACCESSION NR: AP4039264 AUTHOR: Drits, M. Ye.; Kadaner, E. S.; Padezhnova, Ye. M.; Bochvar, Y. R. TITLE: Determination of the boundaries of mutual solubility of mangamene and cadmium in solid aluminum SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 6, 1964, 1397-1402 TOFIC TAGS: aluminum, cadmium, manganese, aluminum alloys, phase equilibria, electric properties, microstructure, solubility, mutual solubility AESTRACT: A small amount of cadmium in aluminum alloys has an extremely beneficial effect on the mechanical as well as the corrosion properties of the alloy. Conse- quently, in recent years cadmium is used as an alloying element in aluminum alloys which are used under deformation conditions, specifically in the refractory alloy of the system Al-Cu-M-M-Cd. In order to determine the nature of the attengthen- ing of cadmium alloys it is necessary to have data on the nature of the interaction of cadmium with aluminum and other alloying components. This work was concerned with the determination of the mutual solubility of cadmium and manganese in solid aluminum. In this investigation binary and ternary alloys	بغنت
TITLE: Determination of the boundaries of mutual solubility of mangament and cadmium in solid aluminum SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 6, 1964, 1397-1402 TOFIC TAGS: aluminum, cadmium, manganese, aluminum alloys, phase equilibria, electric properties, microstructure, solubility, mutual solubility ABSTRACT: A small amount of cadmium in aluminum alloys has an extremely beneficial effect on the mechanical as well as the corrosion properties of the alloy. Conse- quently, in recent years cadmium is used as an alloying element in aluminum alloys which are used under deformation conditions, specifically in the refractory alloy of the system Al-Cu-Li-An-Cd. In order to determine the nature of the strengthen- ing of cadmium containing aluminum alloys it is necessary to have data on the nature of the interaction of cadmium with aluminum and other alloying components. This work was concerned with the determination of the mutual solubility of cadmium and manganese in solid aluminum. In this investigation binary and ternary alloys	
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