SCLIERTINSKAYA, T.N.; BAGROV, YA.Yu.; BALONOV, L.YA.

Analysis of the effect of the phylogenetically ancestral brain systems on the electrical activity of the cerebral cortex. Zhur. evol. biokhim. i fiziol. 1 no.3:281-289 My-Je '65. (MIRA 18:7)

1. Leteratoriya sravnitelinoy fiziologii tsentralinoy nervnoy sistemy i laboratoriya patologii vysshey nervnoy deytatelinosti cheloveka Instituta evolvatsionnoy fiziologii i blokhimii imeni Sechenova AN SSSR, Leningrad.

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SCHER. . / . Category : USSR/Solid State Physics - Mechanical properties of crystals and polyens the fift E-9 crystalline compounds

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1377

: Borin, F.A., Sollertinskaya, Ye.S. Author

: Moscow Inst. for Nonferrous Metals and Gold, USSR Inst

: Influence of Zirconium on Certain Properties of Magnesium Alloys Title

Orig Pub : Metallovedeniye i obrabotka metallov, 1956, No 2, 8-13

Abstract : An investigation was made of the effect of Zr on the mechanical properties grain size, and corrosive properties of Mg-Zr and Mg + 4.1 - 4.8% Zn + Zralloys. It is shown that Zr increases considerably the mechanical properties of the die-cast Mg-Zn-Zr alloys and the corrosion resistance of Mg-Zr alloys. A refining action by zirconium on the magnesium alloys is noted.

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80216 S/126/60/009/04/011/033 E021/E435

The Influence of Small Additions of Zinc on the Preference of Crystallographic Directions of Growth of Aluminium Crystals from the Melt

> This is shown more clearly in macrophotographs of cross sections at various stages shown in Fig 5. This confirms the hypothesis of selective absorption of zinc \mathcal{W} by the (111) planes of aluminium, which leads to an increase in the preference of growth in the [111] direction in relation to the [100] direction. There are 9 figures and 10 references, 2 of which are Soviet, 7 English and 1 German.

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ASSOCIATION: Institut "Giprotsvetmetobrabotka" (Institute "Giprotsvetmetobrabotka")

SUBMITTED: July 2, 1959

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DYMCRS:Petrusevich, R. L., Sollertinskaya, Ye. S., and Pavlova, O. I.PITLE:Etching of dislocations in the (111) plane of gallium arsenidePERIODICAL:Fizika tverdogo tela, v. 4, no. 5, 1962, 1370-1380PEXT:Various etching agents and conditions were studied for the prepara- tion of metallographic specimens of gallium arsenide in the (111) plane.Phose giving positive results are entered in the following table.Results of etching plane and all other planes are polished. Disloca- tions visible in the (111) plane as econical pitsHEP-1, ENO2-34-5 min, coldFreshly prepared and cold medium gives bluish film. are well polished in cold stateNon-	4		S/161/62/004/005/ 3163/3135		
ITLE:Etching of dislocations in the (111) plane of galiledITLE:Etching of dislocations in the (111) plane of galiledEXIODICAL:Fizika tverdogo tela, v. 4, no. 5, 1962, 1376-1380EXT:Various etching agents and conditions were studied for the prepara- of metallographic specimens of galiled arsenide in the (111) plane.FileSecond specimens of galiled arsenide in the (111) plane.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are entered in the following table.Shose giving positive results are polished.Shose giving po	THERS:	Petrusevich,	R. L., Sollertinskaya, Ye. S., and Pavlo	vz, 0. I.	
NEXT:Various etching agents and conditions were order in the (111) plane.tion of metallographic specimens of gallium arsenide in the (111) plane.Those giving positive results are entered in the following table.Those giving positive results are entered in the following table.CompositionEtchingin vol. partsconditionsH 21-3, HNO3-1, 2-3 sec.,The (111) plane and all otherplanes are polished.Disloca-planes are polished.Disloca-tions visible in the (111) plane asetchantconical pitsFreshly prepared and coldHF-1, HNO3-34-5 min,Freshly prepared and coldNon-selectiveetchant		sections of di	islocations in the (111) plane of galling		
tion of Estallogic provides results are entered in the formationThose giving positive results are entered in the formationRemarksCompositionEtching conditionsResults of etchingRemarksin vol. partsconditionsThe (111) plane and all other planes are polished. Disloca- tions visible in the (111) plane as conical pitsNon- selective etchantHP-1, ENO -34-5 min,Freshly prepared and cold medium gives bluish film.Non- selective etchant		tabing af	ents and conditions well of in the (111)	prepara- plane.	1
CompositionItempoin vol. partsconditionsin vol. partsconditionsH Cl-3, HNO3-1, 2-3 sec., H20-2Dianes are polished. Disloca- tions visible in the (111) plane as conical pitsNon- 	PEXE: Vario tion of meta Those giving	positive res	sults are entered in the follow of	Remarks	1
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conical pitsNon- selectiveHF-1, HNO3-34-5 min,Freshly prepared and cold medium gives bluish film.Non- selectiveHF-1, HNO3-34-5 min,Freshly prepared and cold medium gives bluish film.Non- selective	Composition	ts <u>conditio</u>	and cll other		
HF-1, HNO -3 4-5 min, medium gives biulish filenens etchant	<u>in vol. part</u> H 01-3, HNO	3 ⁻¹ , 2-3 sec	., The (111) plane and all other planes are polished. Disloca- tions visible in the (111) plane as		
	<u>in vol. bar</u> H 31-3, HNO H ₂ 0-2	3 ⁻¹ , 2-3 sec boiling	., planes are polished. Disloca- tions visible in the (111) plane as conical pits	etchant Non-	

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Etching of dislocations in the ...

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in vol. parts		on all planes.	
H ₂ SC ₄ -3, H ₂ O ₂ (30%)-1, H ₂ O-1	3-5 min in hot, freshly pre- pared etchant	All planes including (111) are polished. In the (111) disloca- tions appear as conical pits.	Non- selective etchant
HF-1, H ₂ 0 ₂ (30;5)-1, H ₂ 0-2	2-4 min cold	Dislocations appear in the (111) plane as conical pits.	Selective etchant
NaCH (5%)-5, H ₂ C ₂ (30%)-1	2 min, boiling	Dislocations appear in the (111) plane as triangular pyramids	Selective etchant

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s/181/62/004/005/053/055 3163/B138 Etching of dislocations in the ... Remarks Results of etching Etching Composition in vol. parts conditions Selective Dislocations appear in the (111) 0.5-1 min KOH-ć g, $\mathbb{K}_{5} \left[\mathbb{P}e(\mathbb{C}\mathbb{N})_{\delta} \right]$ surface in form of triangular etchant, boiling used for pyramids 4 8, Hg0-50ml *mermanium* Dislocations appear in the (111) HNO3-1, H20-3 Selective 1-2 min etchant surface in form of triangular boiling pyramids $H_{23}^{NO_3} - 1.4 \text{ g/cm}^3$, $H_2 SO_4 - 1.64 \text{ g/cm}^3$, The density of the acids was: HCl - 1.19 g/cm^3 , HF - 1.13 g/cm^3 . There are 2 figures and 1 table. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy ASSCOIATION: institut obrabotki tsvetnykh metallov, Moscow (State Scientific Research and Project Institute for Working Non-ferrous Metals, Moscow) January 15, 1962 (initially), February 10, 1962 (after SUBMICIDD: revision) Card 3/3

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BENDIK, M.A.; PETRUSEVICH, R.L.; SOLLERTINSKAYA, Ye.S.

Effect of dislocations on cadmium diffusion in gallium arsenide. Fiz. tver. tela 5 no.ll:3247-3249 N '63. (MIRA 16:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov, Moskva.

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CIA-RDP86-00513R001652210011-2

s/070/63/008/002/007/017 E021/E120

AUTHORS : TITLE :

Petrusevich R.L., and Sollertinskaya Ye.S. The appearance of dislocations on (111) and (111) planes of gallium arsenide single crystals by the method of etching

PERIODICAL: Kristallografiya, v.8, no.2, 1963, 243-247

The action of various etchants on the surface of single crystals was investigated with the aim of obtaining dislocation etching pits and comparing their densities. Etching was carried out on gallium arsenide samples after sectioning single crystals TEXT: along the (111) plane and polishing the faces with alumina. An HF-HNO3-H20 mixture in the ratio 1:3:2 was used as a polishing etchant. This removed a layer 5-10 μ thick in 3-5 minutes. Various etching solutions were tried and microphotographs of the pits together with the density of etch pits for 3 reagents are given in the following table. It can be seen that the density on a (111) face decreased with subsequent etching with an inhibitor and AgN03, which may be explained by an increase in the size of pits and, in some cases, by overlapping. There are 2 figures and 1 table.

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<u>L 11272-65</u> EWT(m)/1	EWP(t)/EWP(b) IJP(c)/SSD/AFWI/ASD(f)-2/RAEM(a)/E 5/0070/04/009/005/	SD(t) JD 7722/0726
ACCESSION NR: A	24040070 Ya St	
AUTHORS: Petrus	evich, R. L.; Sollertinskaya, Ye. S.	B
TITLE: Displayi	ng Alpha and Beta dislocations in galiter	ar <u>senide</u> 7 7
veietal	lografiya, v. 9, no. 5, 1964, 722-720	crystal,
etched crystal,	slocation effect, gallium arsenide, single plastic deformation	authors
(Fiz. tv. tela	is a continuation cf earlier work by the v. 4, 1378, 1962; Kristallografiya v. 7, 2 etching of gallium arsenide for the purpose tions. In the present article an attempt	is made to
closing disloca	etching of gallium arsenide for the purpose tions. In the present article an attempt between the two types of 60° dislocations of gallium arsenide lattice (α and β disloc cess of dislocations of either type was p	ations). To
this end, an ex	• • •	
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L 11:72-65	
ACCESSION NR: AP4046048	
the crystal by plastic bending. This excess was then displaye	d by
different etchants. The results show that on the B surface (I	IL/
of gallium arsenide, a Schell reagent with amine additives dis only α dislocations, while a Schell reagent with AgNO ₃ display	s both
α and β dislocations. On the A surface (111), acid etchants d	isplay
both α and β dislocations. It is still impossible to determin	e the
relative number of α and β dislocations in the single crystal	
gallium arsenide by means of etching. Orig. art. has: 5 figur	es and
1 table.	
ASSOCIATION: Gosudarstvenny*y nauchno-issledovatel'skiy i pro	vekt-
ny*y institut splavov i obrabotki tsvetny*kh metallov (State S	cien-
tific-Research and Design Institute of Alloys and Processing C	f
Nonferrous Metals)	
SUBMITTED: 28Nov63	00
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ROVENDRAIN, L.G.; COLLEPTIENAN, Ye.S.

Effect of the surface deflection of a microsection from the plane (11) on the detectability of \ll - and β -dislocations in single crystals of gallium arsenide. Trudy diprotestatebraboth no.24:50-53 *65. (MLRA 18:11)

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L 18847-66 EwT(m)/T/EWP(t) IJP(c) JD ACC NR: AT5006471 SOURCE CODE: UR/2680/65/000/024/0038/0043 AUTHOR: Petrusevich, R. P.; Sollertinskaya, Ye. S.; Shil'shteyn, S. Sh. g+1 ORG: State Scientific-Research Planning Institute of Alloys and the Processing of splavov i obrabotki tsvetnykh metallov) TITLE: Various kinds of etch pitting in single crystal compounds of the type AIII ^B V A SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obra- metals and alloys), 38-43 TOPIC TAGS: gallium arsenide, indium antimonide, single crystal, etched crystal, dislocation effect, defect structure, metallographic examination, semiconducting material ABSTRACT: Etch pitting was studied in single crystals of <u>GaAs</u> and InSb. The forma- tion of small pitts on (111) surfaces and their redistribution upon heating were Card 1/2			· · · ·
ACC NR: AT6006471 SOURCE CODE: UR/2680/65/000/024/0038/0043 AUTHOR: Petrusevich, R. P.; Sollertinskaya, Ye. S.; Shil'shteyn, S. Sh. B+1 ORG: State Scientific-Research Planning Institute of Alloys and the Processing of Nonferrous Metals (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov) TITLE: Various kinds of etch pitting in <u>single crystal</u> compounds of the type AIII ^B V SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obra- metals and alloys), 38-43 TOPIC TAGS: gallium arsenide, indium antimonide, single crystal, etched crystal, dislocation effect, defect structure, metallographic examination, semiconducting material ABSTRACT: Etch pitting was studied in single crystals of GaAs and InSb. The forma- tion of small pitts on (111) surfaces and their redistribution upon heating were			
AUTHOR: Petrusevich, R. P.; Sollertinskaya, Ye. S.; Shil'shteyn, S. Sh. g+1 ORG: State Scientific-Research Planning Institute of Alloys and the Processing of Nonferrous Metals (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov) TITLE: Various kinds of etch pitting in <u>single crystal</u> compounds of the type AIII ^B V SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obra- botka tsvetnykh metallov i splavov (Metal science and the treatment of nonferrous metals and alloys), 38-43 TOPIC TAGS: gallium arsenide, indium antimonide, single crystal, etched crystal, dislocation effect, defect structure, metallographic examination, semiconducting material		CC NR: AT6006471 SOURCE CODE: UR/2680/65/000/024/0038/0043	
splavov i obrabotki tsvetnykh metallov) TITLE: Various kinds of etch pitting in <u>single crystal</u> compounds of the type AIII ^B V SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obra- metals and alloys), 38-43 TOPIC TAGS: gallium arsenide, indium antimonide, single crystal, etched crystal, dislocation effect, defect structure, metallographic examination, semiconducting material ABSTRACT: Etch pitting was studied in single crystals of <u>GaAs</u> and <u>InSb</u> . The forma- tion of small pitts on (111) surfaces and their redistribution upon heating were	AL OF	UTHOR: Petrusevich, R. P.; Sollertinskaya, Ye. S.; Shil'shteyn, S. Sh. 2+1	
SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obra- metals and alloys), 38-43 TOPIC TAGS: gallium arsenide, indium antimonide, single crystal, etched crystal, dislocation effect, defect structure, metallographic examination, semiconducting material ABSTRACT: Etch pitting was studied in single crystals of <u>GaAs</u> and <u>InSb</u> . The forma- tion of small pitts on (111) surfaces and their redistribution upon heating were	No sp	mferrous Metals (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut lavov i obrabotki tsvetnykh metallov)	
botka tsvetnykh metallov i splavov (Metal science and the treatment of nonferrous metals and alloys), 38-43 TOPIC TAGS: gallium arsenide, indium antimonide, single crystal, etched crystal, dislocation effect, defect structure, metallographic examination, semiconducting material ABSTRACT: Etch pitting was studied in single crystals of <u>GaAs</u> and <u>InSb</u> . The forma- tion of small pitts on (111) surfaces and their redistribution upon heating were	TI A _I	TLE: Various kinds of etch pitting in <u>single crystal</u> compounds of the type	
ABSTRACT: Etch pitting was studied in single crystals of <u>GaAs</u> and <u>InSb</u> . The formation of small pitts on (111) surfaces and their redistribution upon heating were	bo	tka tsvetnykh metallov i splavov (Metal seisera - 1965. Metallovedeniye i obra-	
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18847-66 \mathcal{O} τ. ACC NR: AT6006471 dissociated from the larger dislocation etch pits which generally form after chemical polishing. The etching conditions for obtaining the small pits were as follows: GaAs--the polishing solution was 1 part HF, 3 parts HNO3, 2 parts H₂O (polished at room temperature for 2 to 3 min) and the etchant for small pits was 1 part HNO3, 3 parts H₂O, 0.5% AgNO₃ (at boiling point 1.5 to 2 min); InSb--1 part HF, 2 parts HNO3 (polish at room temperature for 30 sec) and 1 part HF, 1 part H202, 8 parts H₂O, 0.5% AgNO₃ (etch 3 min at room temperature). Micrographs (200 and 440x) showed that the small pits became larger and formed terrace-like steps and subsequently became flat and eventually disappeared. After repolishing and etching, they reappeared in about the same number indicating that they are caused by defects extending deep into the crystals. Some crystals were heat treated at 1100 and 400°C (60 hr), cooled slowly (1 day), repolished and etched. Small pitting reappeared except. for randomly depleted areas. Within the depleted zones, the larger dislocation etch pits could still be observed. These data indicated that the small pits were not caused by dislocations but by clusters of point defects. Only the point defects could have been affected by the heat treatment. Orig. art. has: 3 figures, 1 table. OTH REF: 007 ORIG REF: 003/ SUBM DATE: 00/ SUB CODE: 20/ Card 2/2 **v mb**

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ACC NR: AP7000001 SOURCE CODE: UR/0070/66/011/006/0896/0902	-
AUTHOR: Malikova, Ye. A.; Petrusevich, R. L.; Sollertinskaya, Ye. S.	
ORG: State Scientific Research and Planning Institute of Alloys and Treatment of Nonferrous Metals (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov)	
TITLE: Distribution and density of dislocations in bent and annealed gallium arsenide and indium antimonide crystals	
SOURCE: Kristallografiya, v. 11, no. 6, 1966, 896-902	
TOPIC TAGS: gallium arsenide, indium compound, antimony compound, single crystal, crystal dislocation, crystal lattice deformation, annealing, x ray spectroscopy	
ABSTRACT: The distribution and density of \propto - and β -dislocations on the A surface (III) of bent GaAs and InSb crystals with different curvatures was studied by etching and with a two-crystal spectrometer. GaAs was etched with a reagent comprising (in parts) H ₂ O ₂ 1, H ₂ O1, H ₂ SO ₄ 3, and InSb was etched with HF1, HNO ₃ 2, CH ₂ COOH3. The effect of annealing for 50 and 100 hours at 1100°C on the redistribution of dislocations was also detormined. Data obtained from reflection curves generally agreed with that obtained by etching. The density of etch pits was compared with the calculated theoretical density of dislocations to determine the relative proportion of	•
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excess dislocations. In both of the bent GaAs and InSD samples the ionsity of dislocations at the stretched and compressed surfaces was about the same, and reached a minimum halfway between (at the neutral plane of no stress). On annealing GaAs with excess dislocations, the density of dislocations leveled out throughout the sample cross section, and the number found approached the theoretical, i.e., their relative proportion approached 100%. On annealing InSD there was a difference in the ordistribution of etch pits: the density of ∞ -dislocations leveled cut, but that of β -dislocations decreased. The relative proportion of excess α -dislocations in InSD after annealing was 30%, and that of β -dislocations was 55%. Although the absolute stress in bending GaAs and InSD was the same, the relative stress for InSD was greater since its strength characteristics are inferior to those of GaAs. Orig. art. has: 3 tables, 2 equations and 5 figures.

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YFREMENKO, B.A.; TSENZLRA, A.I.; BAZHAL, I.G.; SUSUROV, B.G.; SOILOGUB, A.A.; BELIK, Yu.H. Automation of evaporation sections. Sakh. prom. 35 no.11:39-45 (MIRA 15:1) N '61. 1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Yeremenko, TSenzura, Bazhal, Susorov). 2. Ust'_Labinskiy zavod (for Sullogub, Belik). (Sugar machinery) (Automation)

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SOLLOGUE, A.A. Technical and economic indices of the automation of single production sections of the Ust-Labinskaya sugar factory. Saki.prom. 37 no.2: (MIRA 16;5) 30(110)-34(114) F '63.
1. Ust'-Labinskiy sakharnyy zavod. (Automation) (Ust-Labinskaya-Sugar industry)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210011-2 A STATE OF A SCLLCGUB, A. N. Acorns Storing acrons. Les. khoz. 5 No. 9, 1952 Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

SOLLOGUE, V.B.

Modifications of the average velocity of elastic oscillation propagation in the region of frontal depression of the Alpine geosyncline region. Dokl.AN SSSR 94 no.3:545-548 Ja '53. (MIRA 7:1)

1. Predstavleno akademikom D.V.Nalivkinym. (Carpathian mountains--Geology) (Geology--Carpathian mountains)

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SOLLOGUB, V.B. Sollogub, V.B. The tectonic structure of the depression of the Carpathian foothills from seismic research data. Dop. AN UESE no.3:290-295 '55. hills from seismic research data. Dop. AN UESE no.3:290-295 '55. (NIEA 8:11) 1. Institut geologichnikh nauk Akademii nauk UESE. Predstaviv diymiy chlem Akademii nauk UESE V.G.Bondarchuk (Carpathian Mountain region--Geology, Stratigraphic)

APPROVED FOR RELEASE: 08/25/2000



Some recommendations for conducting seismic observations in Some recommendations for conducting solution (MLRA 9:12) torehole testing. Razved.i okh.nedr 21 no.6:43-46 H-D '55.

(Prospecting--Geophysical methods)

SOLLOGUB, V.B.

Authors : Sollogub, V. B. Title : The boundary of the outer and inner zones of the Carpathian depression Periodical : Dok. AN SSSR 102/5, 1005-1008, Jun 11, 1955 Abstract : Geological-mineralogical data are presented regarding the outer and inner zone boundaries of the Carpathian mountains in western Ukraine. Five USSR references (1947-1954). Graph; diagram. Institution : Presented by : Academician D. V. Nalivkin, January 15, 1955	USSR/Geology Card 1/1		Pub. 22 - 41/54			-		
Abstract : Geological-mineralogical data are presented regarding the outer and inner zone boundaries of the Carpathian mountains in western Ukraine. Five USSR references (1947-1954). Graph; diagram. Institution :	Authors	1	I I B	the (Carpa	thien	depre	BBION
Institution :		1 1	Geological-mineralogical data are presented r	egai ains ran.	ding in 1	the on Mestern	ter s Ukrs	nd ine.
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SOLLOGUB, V.D. and the state of the second

TO A DESCRIPTION

Some data on the elastic properties of rocks found in the Meldavian (MLRA 9:12) S.S.R. Dep. UN URSR no.4:370-374 156.

1. Institut geologichnikh nauk Akademii nauk URSR. Predstavlene akademikom Akademii nauk USSR V.G. Bondarchukom. (Meldavia--Geology, Structural)

APPROVED FOR RELEASE: 08/25/2000



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D'YACHKOVA, A.Ya.; SOLLOGUB, V.B. Tracing faults by the seismic method using reflected waves in the outer zone of the Carpathian piedmont fault. Bazved.i okh.medr 22 no.8:37-42 Ag '56. (MERA 9:11) 1. Institut geologicheskikh nauk Akademii nauk USSR i trest "Ukrneftegeofizika." (Seismology) (Carpathian Mountain region--Prospecting--Geophysical methods)

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•	SOLLOGUB, V.B., GALUSHKO, P.YA., VOPILKIN, A.A., PA - 2653	
AUTHOR :	DAMTOKHA A WA	
TITLE:	On Certain Factors inificencing out faktorakh, vliyayushchikh ha Vibrations in Rocks. (O nekotorykh faktorakh, vliyayushchikh ha volichinu skorosti rasprostraneniya uprugikh kolebaniy v gornykh	
PERIODICAL:	porodakh, Russian). Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 1, pp 82 - 65 (U.S.S.R.) Reviewed: 6 / 1957	
	Received: 5 / 1957	
ABSTRACT :	Received: 5 / 1957 The present paper investigates one of the most important factors influencing the velocity of layers, namely the static stress of influencing the velocity of layers, namely the static stress of higher layers. For the study of the connection between the velocity and static stress the authors carried out measurements of velocity rock samples which were subjected to different pressures. In labora- rock samples which were subjected to different pressures. In labora- rock samples which were subjected to different pressures. In labora- rock samples which were subjected to different pressures of tory investigations of the propagation of longitudinal elastic wibrations an impulse supersonic seismoscope was used. From the laboratory investigations discussed here and from the results of laboratory investigations discussed here and from the results of laboratory investigations in drill heles the following inferences can seismic observations in drill heles the following inferences can seismic of the different dispositions considerably. The higher the ties of the different dispositions considerably. The higher the stress, the higher is the propagation velocity of elastic vibrations in rock. If the rock resembles a perfect elastic body, velocity depends only upon static stress and not upon geological processes	
Card $1/2$	depends only upon static contraction	
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On Certain Factors Influencing the Rate of Pro- PA - 2653 pagation of Elastic Vibrations in Rocks.

which have taken place in this region. Rocks differing from these perfect elastic bodies have a remanent deformation. That is why the propagation velocity observed does not only depend upon the depth of the layer but also upon preceding geological history. The propagation velocity of rocks of equal age in different regions can therefore even be different if they are located in the same depth. A detailed analysis of velocities in rocks may offer indications as to the geological structure of the regions investigated and as to major disturbances in depositions. (2 illustrations)

ASSOCIATION: Geological Institute of the Academy of Science of the Ukrainic SSR. PRESENTED BY: SUBMITTED: AVAILABLE: Library of Congress.

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<u>ר כ</u>	ATIMUOD VI	Sollogub, V.B.
	AUTHOR	Sollogub, V.B. he S-W Boundary of the Russian Platform. (K voprosu o yugo-zapadnoy
	TITLE On t	he S-W Toundary of the humo in
		granitse Russkoy platformy). Doklady Akademii Nauk, 1957, Vol. 115, Nr 3, pp. 605 - 608 (USSR.).
•		Dokhady Akademii Nauk, 1957, Vol. 115, Nr 5, pp. 00, 10 and 10
	PERIODICAL	Doklady Akademii Nauk, 1957, Vol. 129, 12 99 11 11 12 12 12 12 12 12 12 12 12 12 12
	ABSTRACT	To meant time geological and source metern and of the Rus-
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		This has a sour opinion of the before The Dosition of
		well as the character place determined by the behaviour of the plate regions is in the first place determined by the behaviour of the plate line basis. In the west of the Ukrainian S.S.R. the deposit of the plate line basis. In the west of the Ukrainian S.S.R. the deposit of the plate
		regions is in the west of the Ukrainian S.S.R. the deputit on north
		line basis. In the west of the Ukrainian S.S.R. the deposit of north form to the through bend forms a zone which takes the direction north form to the through bend forms a zone which takes the direction north
		form to the through-bend forms a zone which takes the dather, Kalush, west - south east which contains Yavorov, Gorodok, Zhidachev, Kalush,
		a diamont att. It 18 Charles
		and chant (ILVIIVa and one of a standard tock compass of
		licturbations cross. a not a the puseian niatiorm deviation
		in its course from the meridional allection the Dobrudzha sinks in north
	- 1 7/2	district of pain on the meridional direction and takes a south of a north in its course from the meridional direction. The jurassic through-bend before the Dobrudzha sinks in north
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On the South-Western Boundary of the Russian Platform

western direction into a considerable depth. The relief of the crystalline basis in the district of the southern slope of the Ukrainian shield (Ungeny-Voznesensk) is described by the contour lines of terrain drawn by the author. In the area of the deposit zone of the platform to the jurassic through-bend the crystalline basis sinks some kilometers in order to form the through-bend placed before. Summarizing, it must be said that the south western flank of the Russian platform which reaches from Yavorov to the Dnestr-Liman has a very complicated structure. This is expressed by the fact that the platform borders on throughbends which differ in age. In the north west of the district there is a tertiary through-bend, in the Moldavian SSR. - a jurassic one, and a cretaceous through-bend in the vicinity of the Black Sea. The mentioned structure is caused also by a series of disjunctive disturbations. They are expressed in the platform, especially in the Umrainian shield as well as in the through-bends which seam the south western end of the Russian platform. The displacement and alteration of the boundary in question occurs in the districts of crossing of displacements of various directions.

(There are 1 figure, 5 Shavic references).

ASSOCIATION Institute for Geological Science of the AN of the Ukrainian SSR. (Institut geologicheskikh nauk Akademii nauk USSR.).

Card 2/3

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KRAVETS, Valentin, Vasil'yevich [Kravots', V.V.]; SOLLOGUE, V.B., kand. geol.-min.nauk, otv.red.; MEL'NIK, G.F., Fed.izd-va.; SKLYAROVA, V.Ye. [Skliarova, V.IE.], tekhn.red.

[Using the high-frequency seismic prospecting method for studying the tectonics of the western part of the Ovruch Hidgel Zastosuvannia vysokochastotnoi seismichnoi rozvidky dlia vyvchennia Buvannia vysokociasto, ani seismichanoi rozviuky ulia vyvenemna tektoniky zakhidnoi okrainy Ovruts'koho masyvu. Kyiv, Vyd-ve Akad. nauk Ukr. URS., 1958. 31 p. (Akademiia nuak URSR, Kiev. Instytut geologichnykh nauk. [Trudy], Seriia geotektoniky i geofizyky. (Ovruch Ridge--Geology, Structural) (Seismic waves) no.6)

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SOLLOGUE, Vsevolod Borisovich; SUBBOTIN, S.I., otv.red.; MEL'NIK, G.F., Fed.izd-va; YUHCHISHIN, V.I., takhn.red.

[Physical properties of rocks in the southwestern and southern regions of the European part of the U.S.S.R.] Fizicheskie . svoistva gornykh porod iugo-zapadnogo i iuzhnogo raionov Evropeiskoi chasti SSSR. Kiev. Izd-vo Akad. nauk. Ukr. SSR, 1958. 99p. (Akademiia nauk URSR, Kiev. Instytut geologichnykh nauk. [Trudy]. Seriia geotektoniky i geofizyky. no. 4) (MIRA 13:8)

1. Chlen-korrespondent AN USSR (for Subbotin). (Rocks) (Seismic waves)

APPROVED FOR RELEASE: 08/25/2000

SOLLOGUE, V.V.

Tectonic structure of the forepart of the Dobruja bend and the والمستعدين فيرفد فيترد southwestern boundary of the Russian Platform according to geophysical data. Trudy Inst. geol. nauk AN URSR. Ser. geofiz. (WIRA 11 no.2:15-26 '58. (MIRA 11:6)

1. Institut geologicheskikh nauk AN USSR. (Noldavia--Geology, Structural)

APPROVED FOR RELEASE: 08/25/2000

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sov/169-59-5-4384 Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 5, pp 15 - 16 V.B., Galushko, P.Ya., Vopilkin, A.A., Patiokhi, A.M. (USSR) 24.1800 Sollogub, On the Propagation Velocity of Longitudinal Elastic Waves 'in AUTHORS: Rocks and Its Dependence on the Static Load and on the Humidity TITLE: Tr. In-ta geol. nauk. AS USSR, Ser. geofiz., 1958, Nr 2, PERIODICAL: pp 130 - 137 X Investigating the effect of the load on the propagation velocity of elastic waves, the authors exposed a rock specimen with cubic ABSTRACT: form to a one-sided compression by means of a hydraulic press. The velocities of the supersonic waves were measured in intervals of pressure of 20 kg/cm². The velocity of wave in sandstone increased by 5 m sec⁻¹. atm for the pressure increasing from 0 to 120 kg/cm². Increasing the load from 120 to 420 kg/cm² causes an insignificant increase of the velocity, but a further increase of the load beyond 420 kg/cm² causes a decrease in velocity. Under a pressure of 610 kg/cm², the specimen collapsed. The similar Card 1/3

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On the Propagation Velocity of Longitudinal Elastic Waves in Rocks and Its Dependence on the Static Load and on the Humidity

course of behavior of the velocity was observed by testing lime-stone, but the values of load corresponding to the points of inflection of the curve, and also the values of velocity were different. The observed variations of the velocity correspond to: 1) The decrease in the porosity under the pressure effect; 2) the redistribution of the elementary particles of the rock. A decrease in velocity with a further increase in pressure can be explained by the formation of cracks. A certain dependence exists between the density of the rocks and the propagation velocity of the elastic waves. It is possible that this dependence may be used for practical purposes. In halite specimens, the velocity of longitudinal waves perpendicular to the applied load decreased considerably with increasing pressure; but in the plane parallel to the applied load, the velocity insignificantly decreased. The saturation of the rock specimen with water increased the velocity; but the variations of velocity in chalk and for coquina were smaller than in less porous sandstone. The investigation of the variation of velocity under multiple cycles of loading and unloading showed that a residual deformation is not observed in dense rocks

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On the Propagation Velocity of Longitudinal Elastic Waves in Rocks and Its Dependence on the Static Load and on the Humidity

(sandstone). In more porous rocks the value of the velocity increases in comparison to the initial velocity in consequence of the residual deformation after taking off the load. Be repetitive pressures, velocities increase again and attain higher values than during the first cycle of loading. Consequently, it can be assumed that the velocity of propagation of elastic waves in rocks depends on the geologic history of the region in question. In regions where numerous changes of sedimentation and of denudation occurred, the rocks were submitted to a greater compression and must be characterized by a higher velocity than the similar rocks in regions where the change of the processes took place not so frequent. Bibl. 10 titles.

I.K. Kupalov-Yaropolk

Card 3/3

APPROVED FOR RELEASE: 08/25/2000

SOLLOOUB, V.B. and the fact and the first state of the second state of the second

In memory of Grigorii Aleksandrovich Gamburtsev. Trudy Inst. gool. nauk AN URSR. Ser. geofiz. no.2:198-199 '58. (MIEA 11:6) (Gamburtsev, Grigorii Aleksandrovich, 1903-1955)

APPROVED FOR RELEASE: 08/25/2000

GALUSHKO, P.Ya., dots., kand. tekhn.nauk; VOPILKIN, A.A., dots., kand.tekhn. nauk; SOLLOGUB, V.B., dots, kand.tekhn.nauk; YUREVICH, G.G., inzh.

Experimental investigation of the effect of blasting on the stability of stope pillars in Solotvino salt mines. Nauch. dokl. vys. shkoly; gor. delo no.3:13-19 '58. (MIRA 11:9)

1.Fredstavleno kafedroy razrabotki mestorozhdeniy poleznykh iskopayemykh Kiyevskogo ordena Lenina politekhnicheskogo instituta. (Solotvino--Salt mines and mining) (Mining engineering)

APPROVED FOR RELEASE: 08/25/2000

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SOLLOGUB, V.B. [Sollohub, V.B.]

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Boundary of the Russian platform in the Ukrainian S.S.R. Dop. AN URSR no.6:658-660 '58. (MIRA 11:9)

1.Institut geologicheskikh nauk AN USSR. Predstavil akademik AN USSR V.G. Bandarchuk [V.H. Bondarchuk]. (Ukraine--Geology, Structural)

APPROVED FOR RELEASE: 08/25/2000

SOV-21-58-8-16/27

AUTHORS: Bondarchuk, V.G., Member of the AS UkrSSR, Kondrachuk, V.Yu., Krutikhovskaya, Z.A., Lebedev, T.S., Mikhaylova, N.P., and Sollogub, V.B.

TITLE: Hypsometric Chart of the Surface of the Precambrian Foundation of the UkrSSR and Some Adjacent Areas (Skhema gipsometrii poverkhnosti dokembriyskogo fundamenta USSR i nekotorykh sopredel'nykh territoriy)

- PERIODICAI: Dopovidi Akademii nauk Ukrains'koi RBR, 1958, Nr 8, pp 863-866 (USSR)
- AFSTRACT: The old charts of the Precambrian foundation within the Ukraine compiled by A.D. Arkhangel'skiy (Ref. 1) and other investigators, of which the most detailed is the chart by E.E. Fotiadi (Ref. 15) are mostly obsolete and do not correspond to the present level of the geologico-geophysical knowledge of the Ukraine territory. Making use of charts compiled by F.A. Rudenko, G.M. Kozlovskaya, V.T. Syabryay, K.M. Varava, R.I. Andreyeva for individual regions and based on the results of electrosurveys by V.I. Klushin, gravimetric investigations by S.I. Subotin and prospecting drilling, in 1957 the authors compiled a hypsometric chart of the surface of the Precembrian crystalline

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Hypsometric ^Chart of the Surface of the Precambrian Foundation of the UkrSSR and Some Adjacent Areas

foundation of the Ukrainian SSR and certain adjacent areas on a scale of 1 : 750,000. The contemporary surface of the Precambrian foundation has a peculiarly disjointed relief which in its fundamental features accords with the features of the tectonic structure of the areas considered. There is 1 geological chart and 16 Soviet references.

ASSOCIATION: Institut geologicheskikh nauk AN UkrSSR (Institute of Geological Sciences of the AS UkrSSR)

SUBMITTED: March 18, 1958

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration,

1. Geology--USSR 2. Geophysics--USSR

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Pro D. W. Marther E. Brither Martine Martine Contractor and Antonia Martine Contractor and Antonia Martine Cont

SOV/21-59-3-17/27 3(5) AUTHOR: Sollogub, V.B. Some Data on the Block Structure of the South of TITLE: the Ukrainian SSR (Nekotoryye dannyye o blokovom stroyenii yuga Ukrainskoy SSR) Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 3, PERIODICAL: pp 301-305 (USSR) Using reference material as a background, the au-ABSTRACT: thor examines the structure of the Pre-Cambrian foundation of the southern slope of the Ukrainian crystalline shield and the adjoining fore-deeps, substantiating his conclusions with data obtained by geophysical and geological survey work performed during recent years. The southern slope of the Ukrainian crystalline shield, as well as the area of the Crimea, consists of a series of sunk and raised blocks. The movements of the various blocks are different in the northern and southern areas of the zone of a single joint, i.e. if the blocks sink in the north, they rise in the south. The Card 1/2176 - 28 82 84

APPROVED FOR RELEASE: 08/25/2000

SOV/21-59-3-17/27 Some Data on the Block Structure of the South of the Ukrainian .SSR latitudinal strike zone is neutral, constituting a joining of the Russian platform with the foredeeps. The names of geologists G. Kh. Dikensteyn and G.A. Lichagin are mentioned in the text. There are 1 map and 8 Soviet references. PRESENTED: December 11, 1958, by V.G. Bondarchuk, Member of the AS UkrSSR Card 2/2

APPROVED FOR RELEASE: 08/25/2000

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210011-2 BONDARCHUK, V.G.; SOLLOGUB, V.B.; KONDRACHUK, V.Yu.; KRUTIKHOVSKAYA, Z.A.; LEBEDEV, T.S.; MIKHAYLOVA, N.P. Surface relief of the pre-Cambrian crystalline foundation in the Ukrainian and Moldavian S.S.R. Sov.geol. 2 no.1:41-55 (MIRA 12:4) Ja 159. 1. Institut geologicheskikh nauk AN USSR. (Ukraine--Geology, Structural) (Noldavia--Geology, Structural) 1 : : 177

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LEBEDEV, T.S.; SOLLOGUB, V.B.

Contribution of Ukrainian scientists to research completed under the program of International Geophysical Year. Mezhdunar. geofiz. god [Kiev] no.2:3-31 '60. (MIRA 14:1)

1. Institute of Geological Science of the Academy of Science of the Ukrainian S.S.R.

(Ukraine-Geophysical research)

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	geologiche 1962. 309	eskoi assot	siatsii. Kie	V, $IZU = VU$ $ABAV$	(MIRA 16:4)	,	
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SOLLOGUB, V.B. Division of the southern part of the Ukraine and the Kuban into tectonic districts based on geophysical data. Geofix.sbor. no.1: 3-10 '62. (MIRA 16:3) 1. Institut geofiziki AN UkrSSR. (Ukraine--Geology, Structural) (Kuban--Geology, Structural)

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SOLLOGUB, V.B.; LOSSOVSKIY, Ye.K.; KHILINSKIY, L.A.; GORBENKU, V.S.; SOKOLOV, B.N.; NIKIFORUK, B.S.

Use of high-frequency seismic prospecting for dividing metamorphic rock complex in the Belozerka iron-ore deposit. Geofiz.sbor. no.2:46-64 162. (MIRA 16:3)

1. Institut geofiziki AN UkrSSR. (Belozerka region (Zaporozh'ye Province)-Seismic prospecting) (Belozerka region (Zaporozh'ye Province)-Crystalline and metamorphic)

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PETKEVICH, Georgiy Ivanovich; SOLLOGUB, V.B., doktor geol.miner. nauk, otv. red.; SERDYUK, O.P., red.; RAKHLINA, N.F., tekhn. red.; DAKHNO, Yu.B., tekhn. red.

[Factors determining seismic wave velocities in a geological cross section as revealed by a study made in the cis-Carpathian region] Faktory, opredeliaiushchie skorosti seismicheskikh voln v geologicheskom razreze (na primere Predkarpat'ia). Kiev, Izd-vo AN Ukr.SSR, 1963. 113 p. (MIRA 17:2)

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SOLLOGUB, V.B.; CHEKUNOV, A.V.; KALYUZHNAYA, L.'.; KHILINSKIY, L.A.; KHAHECHKO, G.Ye.

> Internal structure of the crystalline basement in the southwestern part of the Korosten' pluton according to seismic data. Geofiz. sbor. no. 5:122-130 '63. (MIRA 17:5)

1. Institut geofiziki AN Ukr SSR.

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SOLLOGUB, V.B.; CHEKUNOV, A.V.; KALYUZHNAYA, L.T.; KHILINSKIY, L.A.

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Deep-seated structure of Korosten' pluton according to seismic data. Dokl. AN SSSR 152 no.5:1215-1217 0 '63. (MIRA 16:12)

1. Institut geofiziki AN UkrSSR. Predstavleno akademikom V.S. Sobolevym.

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SUBBOTIN, S.I., akademik; SOLLOGUB, V.B.; CHEKUNOV, A.V.

i serent i

Crustal structure of the basic structural elements of the Ukraine. Dokl. AN SSSR 153 no.2:440-443 N '63. (MIRA 16:12)

1. Institut geofiziki AN UkrSSR. 2. AN UkrSSR (for Subbotin).

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"LLY DE MARCHELL, I., SOLLOGUB, V.B., CHEKUNOV, A.V.

Characteristics of the elastic waves from the interface in the crystalline basement in the southern part of the Belczerka ironore region and its subsurface structure. Geofiz. sbor. no.8; 34-43 164. (MIRA 18:6)

1. Institut geofiziki AN UkrSSR.

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APPROVED FOR RELEASE: 08/25/2000

Structure of the abyssal zones of the earth's crust in the Ukrainian Crystalline Shield. Sov. geol. 7 no.11:48-60 N '64. (MTRA 18:2) 1. Institut geofiziki AN UkrSSR.	KO. N.P.; SUBECTIN, A.V.; LADIYEV(, V.D.				
1. Institut geofiziki AN UkrOSR.	Structure of the aby: Ukrainian Crystalling	ssal zones of e Shield. Sov	the earth's . geol. 7 no		
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SEMENENKO, N.P., akademik, ctv. red.; TKACHUK, L.G., doktor geol.miner. nauk, zam. otv. red.; VYALOV, O.S., red.; FORFIR'YEL V.B., red.; SUBBOTIN, S.I., red.; LAZARENKO, Ye.K., red.; BELEVTSEV, Ya.N., red.; POFOV, V.S., red.; SOLLOGUB, V.B., doktor geol.-miner. nauk, red.; CHEKHOVICH, N.Ya., red.; BYCHKOVA, R.I., red.

[Materials of the Sixth Congress of the Carpatho-Balkan Geological Association; reports of the Soviet geologists] Materialy VI s"ezda Karpato-Balkanskoi geologicheskoi assotsiatsii; doklady sovetskikh geologov. Kiev, Naukova dumka, 1965. 461 p. (MIRA 18:10)

Karpato-Balkanskaya geologicheskaya assotsiatsiya. 6.s"yezd.
 AN Ukr.SSR (for Semenenko). 3. Chlen-korrespondent AN Ukr.SSR (for Lazarenko, Belevtsev, Popov).

APPROVED FOR RELEASE: 08/25/2000

SOLLOGUB, V.B.; GARKALENKO, I.A.; CHEKUNOV, A.V.

Tectonic structure of the northwestern part of the Black Sea based on geophysical data. Dokl. AN SSSR 162 no.6:1374-1377 Je 165. (MIRA 18:7) 1. TSentral'naya geofizicheskaya ekspeditsiya Gosudarstvennogo geologi-

1. Ibendral maya georizidheskaya ekspediosiya dosubarstvennogo georogi-cheskogo komiteta SSSR i Institut geofiziki AN UkrSSR. Submitted August 20, 1964.

APPROVED FOR RELEASE: 08/25/2000

SOLLOGUB, V.B., doktor geol.-min.nauk; CHEKUNOV, A.V.; KALYUZHNAYA, L.T.; KHILINSKIY, L.A.

Structure of the upper part of the crystalline crust in the Obruch synecline region based on seismic data. Geofiz.sbor. no.l:18-26 (MIRA 18:12) *65.

1. Institut geofiziki AN UkrSSR. Submitted June 19, 1964.

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AUTIOR: S	Sollogub, V. B.; Chol	anov, A. V.			
026: Inst	ituto of Goophysics	AN UKrSSR (Instytut 30	ofizyky AN UkrSS	2)	i
TITE: Cr	rustal structuro in -	the vicinity of mountai	nous Crinoa		
		, no. 9, 1966, 1194-119			
TOPIC TAGS	5: Mohorovicic disc	ontinuity, physical goo	logy		1 -
research. of unrfine sence of) sented by [JPRS: 3	The Kohorovicic di al abyssal fracturos k and its surface is positivo gravitation Acadomician AN UkrS 8,677]	rimean nountain "roots" scontinuity is submerge at a depth of 50 km. uplifted. It is one c al anomalies in mountai SR S. I. Subbotin. Ori	The basaltic lay of the factors ca nous Crimoa. Th g. art. has: 1	or is found to musing the pro- dis paper was p figure.	, po
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AUTHOR: S Chirvinska	Subbotin, S. I.; Gurevich, B. L.; Sollogub, V. B.; Chekunov, A. V.; Sya, M. V.; Kuzhelov, G. K. (Deceased)
ORG: none	a combustes i inve
astions -	eep-seated structure of the Ukraine, based on data from geophysical invo
SOURCE: I	International Geological Conpress. 22d, New Delhi, 1964. Geologicheski y prikladnoy geofiziki (Geological results of applied geophysics); dokla h geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 56-69
TOPIC TAC	unper mantle, earth crust, stratigraf
great num northeast Ukrainian Sea basin depressio	Geological and particularly geophysical investigations have located a ber of deep-seated faults in the Ukraine. These faults have mainly and northwest strikes. The northeast-strike faults predominate in the shield, the Black Sea depression, and the northern part of the Black while northwest-strike faults are typical of the Dneprovsko-Donetska on, the Trans-Carpathian depression, the folded Carpathians, the Carpath and the southwestern part of the Russian platform. For the area, as a t has been found that the macrostructural features of deep-seated faults gitudinal or transverse strikes. Tectonic movements in the Earth's crus

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ACC NR: AT6028370

are mainly caused by compression and expansion of the mantle associated with polymorphic, phase and electron transformations, or chemical alterations. Deepseated faults originate in the upper mantle hundreds or at least tens of km deep. The main types of faults located in the Ukraine are: 1) ancient Proterozoic faults in the Precambrian basement; 2) faults of different ages, expressed in the basement as major stages and separating principal structural features or their components; and 3) transverse (sometimes longitudinal) faults cutting across the main structures and separating them into individual blocks. In addition, there are many faults in the sedimentary strate which are directly or indirectly associated with the block movement of the basement. The study of the deep-seated crustal structure of the main geotectonic features of the Ukraine is based upon geophysical, mostly seismic, investigations. The block-type structure of the crust has been established, and a number of deep-seated faults have been located. A general feature is increased crustal thickness under uplifts and decreased thickness under depressions. It has been found that the granite layer contains shallow gently sloping seismic discontinuities, which may either separate different structural stages and rock complexes or represent purely physical boundaries. The Ukraine has been divided into structural zones on the basis of geological and geophysical data, and detailed characteristics of all. zones are given. Orig. art. has: 2 figures.

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APPROVED FOR RELEASE: 08/25/2000

SOURCE CODE: UR/0169/66/000/004/6003/6003 ACC NR: AR6024835 AUTHOR: Subbotin, S. I.; Gurevich, B. L.; Kuzhelov, T. K.; Sollogub, V. B.; Chekunov, A. V.; Chirvinskaya, M. V. TITLE: The plutonic formation on the territory of the Ukrainian SSR according to data from a geophysical study SOURCE: Ref. zh. Geofizika, Abs. 4G13 REF SOURCE: Sb. Geol. rezul'taty prikl. geofiz. Geofiz. issled. stroyeniya zemn. kory. M., Nedra, 1965, 56-59 TOPIC TAGS: geological survey, area description, geomagnetic field ABSTRACT: The main relationship between the anomalous gravitational field and the geological structure of the territory in question is the linearity of the field in the regions of deep submersion of the Precambrian foundation and the mossaic-like arrangement of the shallow surface Precambrian bed. The geomagnetic field anomlies mainly reflect the internal structure of the Precambrian foundation, i.e., Proterozoic folded linear regions and prehistoric plutonic localized objects of the basic and ultrabasic rock. In the regions where large subcambrian deposits were formed the geomagnetic field anomalies mainly reflect the presence of shallow effusive bedrock. A large number of plutonic breaks and "feathered" cracks were established from the data of seismometry, gravimetry, and by other geophysical methods. The thickness of the 550.311(477) መC:__ Card 1/2

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SOURCE CODE: UR/3169/66/000/018/0003/0018 ACC NRE ATTOMSERIE AUTHOR: Sollogub, V. B.; Garkalenko, I. A., Trifonov, P. G.; Chekunov, A. V.; Kalyuzhnaya, L. T.; Khilinskiy, L. A. ORG: Geophysics Institute AN UkrSSR. (Institut geofiziki AN UkrSSR); Dneprogeofizika Trust (Trest "Dneprogeofizika") TITLE: Deep structure of the Earth's crust in the Belozersk iron ore region based on seismic data SOURCE: AN UkrSSR. Geofizicheskiy sbornik, no. 18, 1966. Geofizicheskiye issledovaniya stroyeniya zemnoy kory (Geophysical investigations of the structure of the earth's crust), 3-18 TOPIC TAGS: geologic survey, earth crust, seismology, petrology, mineralogy ABSTRACT: Scismic investigations of the Belozersk iron ore region revealed that the basement in the region is composed of the earliest Precambrian formations and the basaltic shell is greatly uplifted. Hence it is natural to assume that a block of the Earth's crust has been elevated in the Belozersk region relative to adjacent regions. This uplifting of the block of the basaltic shell occurred along the ancient Belozersk submeridional deep fault zone and was accompanied by the penetration and fusion of basic and ultrabasic rock varieties in the upper levels of the crust. A comparison of the structural map of the surface of the basaltic 1/2 Card

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210011-2 AT7003831 ACC NR: shell with the gravimetric map revealed their good qualitative agreement. Thus the gravity anomalies in the Belozersk region are due not to petrographic inhomogeneities of the basement but mainly to the surface relief of the basaltic shell. It is assumed that in other regions of the Ukrainian shield the main gravitational effect is also produced by density boundaries within the Precambrian strata. In the overall qualitative conformity of the gravitational map of the basaltic shell of the Belozersk region, no direct relation was found between the magnitude of the anomalies and the depths to the basalt. This was apparently due primarily to density inhomogeneities in the basaltic shell itself. Orig. art. has: 10 figures. SUB CODE: 08/ SUBM DATE: 20Nov65/ ORIG REF: 025 2/2 Card

APPROVED FOR RELEASE: 08/25/2000

ACC NR: AT6034514 SOURCE CODE: UR/0000/66/000/000/0156/0162 AUTHOR: Sollogub, V. B.; Chekunov, A. V.; Pavlenkova, N. I.	
ORG: none TITLE: Structure of the Earth's crust in the southern Ukraine based on deep seismic sounding data	
SOURCE: AN SSSR. Otdeleniye nauk o Zemle. Nauchnyy sovet po kompleksnym issledovaniyam zemnoy kory i verkhney mantii. Glubinnoye stroyeniya Kavkaza (thusan1 structure of the Caucasus). Moscow, Izd-vo Nauka, 1966, 156-162	Ð
TOPIC TAGS: Mohorovicic discontinuity, granitic layer, basaltic layer, earth crust, seismic velocity, crystalline basement, and and the former of the former of the seismic investigations conducted in ABSTRACT: The results are presented of regional seismic investigations conducted in	
the southern Ukraine in 1901-1902 of the profiling. Borehole and available and deep seismic sounding using continuous profiling. Borehole and available geophysical data were utilized in compiling a structural schematic map of the Crimean Plateau and Prisivash'ye along the surface of the Paleozoic basement. It was	
established that the basement has a block structure. A system of Districtures. The sublatitudinal faults disects the territory into a number of large structures. The Paleozoic basement lies at depths ranging from 0-1 to 6-9 km. The seismic data do not confirm that the transverse Perekop uplift is the boundary between the Karkinitskaya and Sivashskaya depressions. The Novo-Tsarin gravity anomaly is Cord 1/2	

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attributed to the deep-seated fault containing intrusions of basic and ultrabasic rocks. A seismic-geologic iron section of the Earth's crust along the voronzh massif—Black Sea profile was prepared from available deep-seismic data. Up to 4 interfaces with boundary velocities between 6.6 and 7.1 km/sec have been established at depths of 1.5 to 10 km below the crystalline basement in the area of the southern slope of the Ukrainian shield. The basaltic layer with a boundary velocity of 6.6-7.4 km/sec is found along the whole profile at depths between 5-8 and 18-20 km. The Mohorovicic discontinuity with a boundary velocity of 8.1-8.2 km/sec was also traced along the whole seismic line. The depth to the Mohorovicic discontinuity varies from 22-30 km in the region of the Black Sea to 45-50 km in the Crimean Mountains and the Dnieper-Donets aulowgene. Orig. art. has: 2 figures. [WA-794]

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KOZHEVIN, V.G.; AFONIN, A.A.; FAT'YANOV, N.M.; SOLLOGUB, V.P.; KOZYUBERDA, A.F., gornyy inzhener; FRYAKHIN, V.A.; SHINKOVSKIY, A.V.; SUKHACHEV, D.A.

> Let's be ready for the tenth celebration of Miners' Bay with new industrial achievements. Ugol' 32 no.8:4-17 kg '57. (MLRA 10:9)

1. Kemerovskiy Sovnarkhoz (for Koshevin). 2. Glavnyy inshener tresta Pervomayskugol' (for Afonin). 3. Glavnyy inshener tresta Mesvetayantratsit (for Fat'yanov). 4. Glavnyy inshener treata Kopeyskugol' (Sollogub). 5. Ayutinskoye shakhtoupravleniye (for Kosyuberda). 6. Shakhta im. Rumyantseva tresta Kalininugol' for Pryakhin). 7. Machal'nik ordena Lenina shakhty No.9 tresta Sneshnyanantratsit (for Shinkovskiy). 8. Nachal'nik shakhty No.22 "Iomintsevskaya tresta Shchekinugol' (for Sukhachev).

(Coal mines and mining)

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CIA-RDP86-00513R001652210011-2

S/169/61/000/008/030/053 A006/A101

AUTHOR:Sollogub, Z. R.TITLE:Synoptic conditions of glazed frost formation in Northern Caucasus
and in the south-east of the European territory of the USSR
and in the south-east of the European territory of the USSRPERIODICAL:Referativnyy zhurnal, Geofizika, no. 8, 1961, 50, abstract 8B332
("Sb. po regional'n. sinoptike", no. 4, Moscow, 1960, 69-95)
("Sb. po regional'n. sinoptike", no. 4, Moscow, 1960, 69-95)

TEXT: Glazed frost in the south-east of the European territory of USSR and in Northern Caucasus arises within a period from October until March. In the limit months of this period the number of cases is insignificant, and a maximum is observed in December. The majority of cases of glazed frost (70%) arises at a temperature of -0.1 to -0.4 C (-12 C is the extreme limit temperature) and at weak and moderate winds of eastern and south-western directions. Groups and types of synoptic processes causing glazed frost of different intensity were established. Most dangerous is the outbreak of southern cyclones from the Black Sea when the glazed frost is most intensive and prolonged. Recommendation as to the prognosis of the intensity and localization of glazed frost are given which are based on a detector of synoptic processes mentioned. The forecast is deter-

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KOWALSKA, Eugenia, doc.; SOLLORZ, Jerzy, mgr

Complexometric determination of calcium in orthophosphoric acid solutions after separation of phosphate ions on anion exchangers. Chem anal 9 no.2:349-352 464.

1. Department of General Chemistry A, Technical University, Gliwice.

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"Study of Transistor Characteristics on an Oscillographic Characteriograph," by A. M. Bonch-Bruyevich and U. B. Solmatov, <u>Radiotekhnika i Elektronika</u>, No 3,

SOLMATAY,

sun. 1391

4.4.

Mar 57, pp 311-316 Due to a considerable spread in the properties of transistors manufactured, their characteristics have to be checked for each unit separately to establish their fitness for specific application. To facilitate the testing of transistors manufactured, a device was developed to record simulataneously four families of static characteristics. Such a device was called an oscillographic characteriograph.

The circuit of this characteriograph consists of the following components: multivibrator, intensity gate generator, saw-toothed oscillator, step-by-step voltage generator, emitter feed block, collector feed block, and oscillograph. Characteristics of transisters SIB and PIA were studied for various ambient temperatures. (U)

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State 71, 7. light determination of secenite by jotur ism ferroyanite as a v lemetric's lation 1. 14. (and and M. TAT F Malmar) vol. 63. no. 11. Nov. 1997 and det, hungery SU: Monthuy In ex of East Bore ear Accessions (Edat) 10. Wel. 7, nol 3 March 1998 and the state of the 100

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SOLMO s/195/63/004/001/006/009 E075/E436 Shol'moshi, F., Reves, L. **AUTHORS:** Catalysis of reactions in the solid state. Thermal TITLE: decomposition of ammonium perchlorate in the presence of iron oxide PERIODICAL: Kinetika i kataliz, v.4, no.1, 1963, 88-96 TEXT: The kinetics of the decomposition of pure NH4ClO4 were studied first. The decomposition between 215 and 234.5°C occurred to the extent of 31 to 34% with the activation energy ranging from 29.6 to 34.9 kcal/mole and induction periods from Above 240°C the decomposition proceeded more 61 to 218 min. rapidly, also to the extent of 31 to 33%, and with an activation energy of 31.6 kcal/mole. With the addition of Feg03 the decomposition below 240°C took place with shortened induction periods and slightly increased rates. For the mixtures containing 50% Fe₂O₃ the extent of the decomposition reached 40 to 45%. Between 240 and 300°C, 60 to 95% of NH4ClO4 was decomposed with short induction periods (9 to 23 minutes). The decomposition rate was doubled when the content of Fe203 increased from 2 to 20%. Card 1/2

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s/195/63/004/001/006/009 E075/E436

Catalysis of reactions ...

Mixtures containing 2, 5 and 12% Fe2O3 were also investigated between 300 and 380°C. At these temperatures the first stage of the reaction (approx. 30% decomposition) was completed in 2 to 3 min followed by a slow further decomposition. The activation energies were 40.9, 30.9, 25.7 and 22.0 kcal/mole for the mixtures containing 0, 2, 5 and 12.5% Fe2O3. By comparing the activation energies for the decomposition of pure NH₄ClO₄ with those for the decomposition of its mixtures with Fe2O3, it was concluded that the mechanism of decomposition of the mixtures is electronic by nature. Apparently Fe2O3 accelerates the transfer of electrons from anions to cations, i.e. it promotes the formation of NH₄ and ClO₄ radicals which decompose to gaseous products. There are 10 figures and 10 tables.

ASSOCIATION: Institut neorganicheskoy i analiticheskoy khimii pri Universitete g. Seged, Vengriya (Institute of Inorganic and Analytical Chemistry at Szeged University (Hungary))

SUBMITTED: December 12, 1961

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210011-2 A STATE AND A STATE AN 1. DIMITRIU, C. C., Prof.; RIMNICEANU, R., dr.; GEORGESCU, St., dr.; SOLMU, I., dr.; BULIGESCU, L., dr.; HULUBEL, P., dr. Study of the effects of heparin in angor and in sequelae of myocardial infarct; clinical and electrophoretic results. Med. int., Bucur. 8 no.3:375-379 July 56. 1. Lucrare efectuata in clinica medicala Spitalul "dr. Carol Davila." (ANGINA PECTORIS, therapy heparin, clin. & electrophoretic results) (MYOCARDIAL INFARCT, complications ther., heparin, clin. & electrophoretic results) (HEAPARIN, ther. use angina pectoris & seq. of myocardial infarct. clin. & electrophoretic results)

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Abs Jour	:	Ref Zhur Fizika, No 9, 1959, 19620	
Author	:	Jaksii, B., Soln, J.	
Inst	:	Zagreb, Yugoslavia	
Title	:	-Meson Decay and the Non-Conservation of Farity	
Orig Pub	. :	Glasnik matfiz. i astron., 1958, 13, No 2, 125-137	
Abstract		The energy spectrum, the angular distribution, and the polarization of electrons emitted in the decay of pola- rized mesons are calculated for the four-fermion inter- action of general form under the assumption of an arbi- trary degree of parity non-conservation in \mathcal{A} decay (see also Ref Zhur Fizika, 1958, No 8, 17433). The formulas obtained contain ten real parameters α_i , which are bilingar combinations of ten, generally, speak- ing, complex co-pling constants, that enter into the	
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The second s REFERENCE STATE

SOLNAR, Vladimir

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European Symposium on Criminal Law in Bressanone. Vestnik CSAV 70 no.5:742-743 '61.

1. Clen korespondent Ceskoslovenske akademie ved.

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Tolk Setter Gulffederer

"Changers of albumins as seen by an economist." p. 65. (VIZIVA LIDU, Vol. 8, B. SCLMARGYA no. 1, Apr. 1953, Praha, Czechoslovakia.) SC: Monumby List of East European Accessions, L.C., Vol. 2 Ho. 7, July 1953, Uncl.

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IJP(c)/AEDC(a)/ Po-4/Pq-4/Pg-4/Pk-4/P1-4 SSD/ASD(a)-5/ASD(s)/AFMDC/AFETR/RAEM(a)/AFTC(p)/RAEM(d)/ESD(dp) ACCESSION NR: A T4047744 S/0000/64/000/0082. MLK/BC 8+1 AUTHOR: Solnechny*y, E. M. TITLE: Crudity of system motion and crudity of linear systems with constant SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Tecriya i primeneniye parameters avis naticheskich sistem (Theory and application of automatic systems). Moscow, Izd-vo Nauka, 1964, 82- 7. TOFIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory ABSTRACT: The concept of crudity introduced by A. A. Andreaov, et al. ("Theory of Oscillations," Fizmatgiz, 1959) is applicable only to systems describable by ordinary Cauchy-type differential equations with time-independent right-hand members. The present article proposes a concept of crudity which is a generalization of Lyapunov's stability and applicable to the individual motions of a system. Some indicants of the crudity based on a Laplace transform of a motion-describing Card 1/2

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stability with respect to a par- sufficient conditions of crudit "generalized crudity" is intr containing δ -functions or fin stationary system to an input	definition of the "crudity of mo rameter, is formulated, as we ty in a single-variable system coduced to cover linear system rst-kind steps. The crudity of t variable is considered; the s mptotically crude) with respect is crude with respect to this centrated parameters and delay	is with motions f response of a linea system is called cru t to a parameter if t	ur de he udity
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