1 NEDYALKOVNS 26-10-13/44 AUTHOR: Nedyalkov, N.S. TITLE: A Study of Hailstorn Damages to Agriculture in Dulgaria (Isucheniye gradobitiy v Bolgarii) Priroda, 1957, Bo 10, pp 86-89 (USSR) PERIODICAL ABSTRACT: The author gives an account of hailstores occurring in Bulgaria and the damage they have caused to agriculture over a period of 15 years. Bulgaria is one of the European countries suffering the most from hailstorms. The worst period is from

suffering the most from hailstorms. The worst period is from May through July when in some areas hailstorms occur continuously. Statistics show (Table 1) that more than 1,500 communities suffer from frequent damage every year where an average of 250,000 - 300,000 hectares of crops are devastated, causing the government yearly losses of more than 200 million levas. Diagram 1 shows the amount of precipitations in Bulgaria and Chart 2 the different areas with respect to the frequency of hailstorms. The author refers to a number of methods for reducing damage of crops by hail. In the first place early agricultural crops, especially grain crops, should be cultivated, for harvesting before the beginning of the dangerous period. Harvesting should be carried out quickly. Crop varieties, especially capable of recovering from hail damage.

CIA-RDP86-00513R00113("APPROVED FOR RELEASE: Wednesday, June 21, 2000

Voterinary Medicine

BULGARIA

CHENCHEV, Prof. Iv., VI2PB; <u>NEDYALKOV, Dr. St.</u>, VII; KHRISTOV, Dr. Y., VII; DUMANOV, Dr. Y., VI2PB; BODUROVA, Dr. Tsv., VII; SAVOV, Dr. At., IEPAGE

"Properties of the Preparation Biozan T"

Sofia, Veterinarna Sbirka, Vol 63, No 8, 1966, pp 7-9

Abstract: Preparations Biozan T and Biozan P to be administered to newborn calves and pigs, respectively, for the prevention of intestinal and other diseases have been developed. Biozan T contains gama-globulins active against S. enteritidus, S. typhi murium, P. bulbasepticus, E. coli (09, 078, and O117), and the virus of Aujeszky's disease and Biozan P gama-globulins active against S. cholorae suis, S. typhi nurium, E. coli (hemolytic and nonhemolytic), and the virus of Aujoszky's disease. Furthermore, vitamin C, terranycin, biomycin, and penicillin have been added to both preparations. Tests carried out on Biozan T indicated that it was non-toxic to white mice. had a bacteriostatic effect on Staph. aureus 209 and E. coli 09, and did not deteriorate with respect to antibiotic activity on being stored at 4° for 5 nonths. On being administered to calves 3-16 days old, Biozan T was very effective in stimulating growth. While the calves did not develop diarrhea, a definite conclusion in regard to the effect of Biozan T in producing immunity is not yet possible at this stage. Table, no references.

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BULGARIA

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NEDYALKOVA, M., DOYCHINOVA, N.; Scientific Research Institute of Hematology and Blood Transfusion (Director Prof. V. Serafimov-Dimitrov)

"Effect of Heterologous Erythrocyte Antigens on Irradiated Animals"

Sofia, Rontgonologiva i Radiologiva, Vol 5, No 4, 1966, pp 225-229

Abstract: Guines pigs were immunized by intraporitoneal injection of a susponsion of human erythrocytes and irradiated on the 7th day after the injection with X-rays in a dose of 340 r. Immunization with heterologous erythrocyte antigens increased the immunological reactivity of the experimental animals as compared with control animals that were irradiated without having been immunized, but did not affect the course of the radiation sickness as such. None of the experimental animals developed complications due to infection, while one of the control animals exhibited bacterania on the 7th day after irradiation. Aerobacter aerogenes was isolated from the blood of this animal. Graphs, 17 references (9 USSR, 8 Western). Russian and English summaries, Manuscript received Jul 66 (Jul. 65 ?).

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ACCESSION NR: AT4017779	B/2503	/63/011/01-/0121/0137
AUTHOR: Nedylikov, I.		
TITLE: Some questions ass pion scattering	ociated with the algebraization	of pion-nucleon and pion-
-hooking institut & ANEB (ys na Naukite. Fizicheski inst News of the Institute of Physic ation), v. 11, no. 1-2, 1963, 12	B BLIG GHE MOULLE DHE D
TOPIC TAGS: scattering, 1	pion, nucleon, algebra	
unitarity, is an algebraid pion-nucleon and pion-pion calculations and, in the	is work, on the basis of analysic system to describe certain pro- a scattering. This system prove author's opinion, might also be ns. Orig. art. has 46 equations	used to explain certain
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L 14994-66 ACC NR: AP5028568

> , the modulus of elasticity and the shear modulus Thus upon alloying with aluminu increased while Poisson's ratio and the coefficient of volume contraction decreased. For example, if in pure micbium B = 10, 650 kg/mm²; G = 3800 kg/mm²; G = 17, 400 kg/mm^2 and $\mu = 0.396$ then in the alloy containing 7.3% Al these values change to 15, 730 kg/mm²; 7860 kg/mm²; 14, 900 kg/mm² and 0.325 respectively. However, these changes did not occur uniformly as a function of \$ Al. The slope of the curve was smaller for changes in concentration to 3.3% than for changes from 3.3 to 7.3%. Figure 2 showed the changes occurring on the atomic level for the same changes in wt & Al. The characteristic temperature changed from 265°C for pure michium to 350°C for 7.3% Al. The root men square stonic displacement changed from 0.138 × × 10⁻⁰ cm in the pure micbium to 0.115 × 10⁻⁰ cm in the alloy with 7.36 Al. These values also changed more in the concentration range from 3.3 to 7.36 Al. The 3.3 wt & Al concentration coincided with the solid solubility limit of the Al in ND; the higher magnitudes of the elastic characteristics were obviously associated with the appearance of the second phase. Orig. art. has: 2 figures.

OTH NEF: 000 SUB CODE: 11,20/ SUBM DATE: 04Jan65/ ORIG NET: 002/

L 23277-66 EVT(m)/EVP(t) IJP(c) JD/JG ACC NR: AP6011417 SOURCE CODE: UR/0021/66/000/003/0352/0354
AUTHOR: <u>Nedyukhe, I. N.; Chamyy, V.H.</u> - Chermyy, V.G.
TITLE: Elastic properties of alloys of the <u>Hb-Cr-Va</u> system 27 ~7 ~7 SOURCE: AN UKERSR. Depevidi, no. 3, 1966, 352-354
TOPIC TAGS: miobium alloy, vanadium containing alloy, chromium con- taining alloy, alloy property, elastic property
ABSTRACT: The effect of vanadium on the elastic properties of miobium or miobium-4% chromium alloy has been investigated. Alloys containing 5, 10, 15, (or 40% vanadium were malted from 99.4%-pure miobium, 99.5%-pure winddium, and 99.9%-pure chromium in an arc furnace in an inert atmosphere. It was found pure miobium had a Young's modulus E of 10,650 kg/mm ² , a shear medulus G of 3800 kg/mm ² , a bulk medulus Q of 17,400 kg/mm ² , and a Peisson's ratio y of 0.398. Corresponding figures for miobium with 4% chromium were 12,060 kg/mm ² , 4350 kg/mm ² , 17,330 kg/mm ² , and 0.384. Additions of up to 20% vanadium to miobium or miobium-chromium alloy increased E and G and decreased Q and y. With increasing vanadium content the values of E, G, and y for both Nb-Va and Nb-Cr-Va alloys approached each other, and at 20% vanadium 2.
Cord 1/2

L 23277-66 ACC NRI AP6011417 - \mathcal{O} were almost equal: 2, 13,580 and 13,470 kg/mm²; G. 4960 and 4920 kg/m²; N, 0.368 and 0.365. The Q of Nb-Va alloys remains a little higher than that of Mb-Cr-Va alloy at any vanadium content (17,200 and 16,580 kg/mm² at 20% vanadium). The characteristic temperature increased from 265C for pure miobium and 290C for miobium with 4% chromium to 323 and 326C for alloys containing 20% vanadium. Deviations of atoms from the equilibrium position in the crystal lattice decreased from 0.138-10-8 cm for pure michium and 0.132-10-8 cm for Hb-Cr alloy to 0.125-10-8 and 0.126-10-8 cm for alloys with 202 vanadium. The increase in characteristic temperature and decrease in atom deviation indicated a "strengthening of stonic bonds. Orig. art. has: 2 figures. (AZ) SUB CODE: 11. 14/ SUBM DATE: 26Nay65/ ORIG REF: 002/ ATD PRESS 235 ŧ, . . . Card

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CIA-RDP86-00513R001136

ACC NR	$\frac{1}{AP6032414} (A) SOURCE CODE: UR/0021/66/000/009/1166/1109.$
AUTHOR:	Nedyukha, I. M.; Chornyy, V. HChernyy, V. G.
	astitute of the Problems of Casting, AN URSH (Institut problem littya, AN URSH
	Investigation of the interatomic interaction in niobium-tungsten-molybdenum
SOURCE:	AN UkrRSR. Dopovidi, no. 9, 1966, 1166-1169
TOPIC TA binary n	GS: niobium alloy, tungsten containing alloy, molybdenum containing alloy, iobium alloy, ternary niobium alloy, alloy interatomic bond strength
ABSTRACT molybden with 5, atmosphe values o square re and moly The value and 0.13 10650 kg	Binary niobium-base alloys with 5, 10 and 20% tungsten, or 5, 10, and 20% um, ternary Nb-10% Mo alloys with 5, 10, 15 or 20% W, and Nb-10% Mo alloys 10, 15 or 20% Mo were melted from 99.4-99.99%-pure components in an inert re arc furnace. The strength of interatomic bonds was evaluated from the f the elasticity modulus (E), characteristic temperature (θ), and the mean oot displacement of the atoms from the equilibrium position (Mi^{7}). Tungsten bedenum increased E and 0 and decreased Mu^{2} in both binary and ternary alloys. es of E, θ and Mu^{2} were 11940 and 12030 kg/mm ² , 283 and 283K, and 0.13·10 ⁻⁸ 1·10 ⁻⁸ cm for Nb-10% W and Nb-10% Mo alloys, respectively, compared with furna ² , 265K and 0.138·10 ⁻⁸ cm for pure niobium. Increasing the tungsten and um content to 20% in binary alloy further increased the values of E, θ and

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ACC NR: AP6032414

decreased M_1^2 , with molybdenum being more effective. Tungsten in Nb-17% Mo at 773 and molybdenum in Nb-10% W alloys produced almost equal increases in E and M_1^2 , e.g., 13670 and 13530 kg/mm², and $0.124 \cdot 10^{-8}$ cm for Nb-10% W-Mo and Nb-10% Mo-W alloys, respectively; the corresponding values of 0 were 283 and 285K. The obtained data show that 0 does not always indicate the actual changes in the strength of interatomic bonds, and that E and M_1^2 are more reliable indicators of the changes in the strength of interatomic bonds with alloying. Orig. art. has: 1 figure and 2 formulas. [M5] SUB CODE: 11/ SUBM DATE: 130ct65/ ORIG REF: 004/ OTH REF: 003/ ATD PRESS: 5096

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<u>1.02015-67</u> EWF(m)/EWP(w)/EWP(t)/ETI IJP(c) JD/JG ACC NR: AP6027794 SOURCE CODE: UR/0126/66/022/001/0114/0117

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AUTHOR: Nedyukha, I. M.; Chernyy, V. G.

ORG: Institute of Metal Casting Problems, AN UkrSSR (Institut problem lit'ya AN UkrSSR)

TITLE: Elastic properties of the alloys of niobium with tantalum, vanadium and titanium

SOURCE: Fizika metallov i motallovedeniyo, v. 22, no. 1, 1966, 114-117

TOPIC TAGS: metal physical property, niobium base alloy, tantalum, vanadium, titanium, elastic modulus, shear modulus

ABSTRACT: The study of these properties for alloys of the Nb-Ta, Nb-V and Nb-Ti systems is of interest considering that their components either display nearly identical values of the modulus of normal elasticity (Nb-V, Nb-Ti) or greatly differ in these values (Nb-Ta). Accordingly, alloys containing 5, 10, 20, 40, 60, 80 wt. % Ta, 2.5, 10, 20, 40, 60, 80 wt. % V and 5, 10, 15, 25, 35, 41 wt. % Ti were melted in an argon-atmosphere arc furnace and the resulting east specimens were investigated. Elastic properties (modulus of elasticity E, modulus of shear G, volumetric modulus of elasticity Q, and Poisson ratio μ) were measured by ultrasonic and other methods described in a previous investigation (Nedyukha, I. M., Chernyy, V. G. FMM

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I 19015-67 ACC NR: AP6027794

decreases. In the alloy with 40% V we have: $E = 14,730 \text{ kg/mm}^2$, $G = 5,440 \text{ kg/mm}^2$, $\mu = 0.355$ As the V content increases further, however, E and G decrease. The effect of Ti on Nb also is distinctive: Nb-Ti alloys containing 5% Ti display some increase in E and G, but any further increase in their Ti content leads to a steady decrease in E, G. An analysis of these findings reveals interesting regularities: in every case a change in one of these characteristics leads to an opposite change in another characteristic (cf. e.g. Fig. 2) This is associated with the





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REALIZED ANTIGATION ANTIGATION CONTINUE CONTINUES ANTIGATION AND ANTIGATION AND ANTIGATION AND ANTIGATION AND A ACC NRI AP7004182 SOURCE CODE: UR/0369/66/002/006/0646/0648 Nedyukha, I.M.; Chernyy, V. G. AUTHOR: ORG: Institute of the Problems of Casting AN UkrSSR (Institut problem lit'ya AN UkrSSR); Electric Welding Institute im. Ye. O. Paton Kiev (Institut Elektrosvarki) TITLE: Increasing the oxidation resistance of niobium at high temperatures Fisiko-khimicheskaya mekhanika materialov, v. 2, no. 6, 1966. SOURCE: 646-648 TOPIC TAGS: niobium, oxidation resistance, and then iron alloy, binary alloy, alloy, and the second alloy, tungsten containing alloy, nickel containing alloy ABSTRACT: Cast binary Mb-Fe alloys containing 15-332 Fe and additionally alloyed with Ti, V, W, Cr, Al and Ni, and ternary No-25% Fe-(5-20)% W, V or Ti alloys were arc-melted from 99.4-99.99% pure materials and tested for oxidation resistance in air at 1200C for 5 hr. Additions of iron were found to increase the oxidation resistance of all the investigated 'Nb-Fe alloys, particularly at iron concentrations of 25% or higher, which Cord 1/2 UDC: none

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ACC NR. AP7004182 corresponded to the existence of the pure n-phase (Nb₃Fe₂) with a carbidetype structure. Alloys with less than 25% Fe had a significantly lower resistance which, however, was many times higher than that of pure niobium. Of all the investigated alloying elements, titanium was the most effective in increasing the oxidation resistance of the ternary alloys. Nb-25% Fe-25% Ti alloy had the highest oxidation resistance: the absolute oxidation rate in 1-hr exposure at 1200C was about 4 mg/cm²·hr. In contrast, small additions of up to 5% Ti or up to 10% V only slightly increased the oxidation resistance of No-25% Fe alloys, while larger additions greatly decreased it. A partial substitution of Ti by alloying Nb-25% Pe-25% Ti with Cr and V or with Ni and Al brought about no increase in the oxidation resistance of the alloy. An HD-252 Fe alloy had a modulus of elasticity of 17,620 kg/mm² and an HV hardness of 710 kg/mm², compared with 10,650 kg/mm² and 145 kg/mm² for pure miobium; the ND-25X Fe-25% Ti alloy has a Poisson ratio of 0.34. All this opens definite prospects for the development of oxidation and heat-resistant niobium alloys with adequate tachnological properties on the basis of the investigated materials. Orig. art. has ... 2 figures. [**)**(**)** SUB CODE: 11/ SUBM DATE: 10Jun66/ ORIG REF: 004/ OTH REF: 004/ Cerd 2/2 **路**提



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	. 63572-65 54T(d)/T
	ACCESSION NH: AP5015555 UR/0286/65/000/008/0098/0098 629.13.01/06 9
τάτο.	AUTHOR: Sinyashin, G. B.; Redzel'skiy, L. V.
	TITLE: A device for engaging and disengaging a plug-type connection on a beam-type carrier support. Class 62, No. 170306.
	SOURCE: Byulleteni' izobreteniy i tovarnykh znakov, no. 8, 1965, 98
	TOPIC TAGS: plug connection, beam type carrier support, engagement mechanism, dis- engagement mechanism
	Aborraction An author Certificate has been issued for a device for ergaging and dis- engaging a plug-type connection on a beam-type carrier support. The unit consists of a cantilever bracket in which a pivoted double-aim lever connected by a tie rod to a single-arm lever is mounted. The single-arm lever is rigidly connected to a rotating shaft which works in conjunction with the mechanism's actuator. To increase the alignment rate of the socket with the plug-type connection, to decrease stresses on the actuator during engagement of the connection, and to improve reliability of disangagement within the fairing support, a segment gear is mounted on the shaft of the single-arm lever. This gear meshes with the actuator-mechanism pinion gear Cord 1/3
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4-3-4-5 6-1		상황원왕, 방상권왕 영상 (1997년) 방영국 방영국 이 가지 않는 것이 않는 것이 있다. 그 방법 방법 방법 이 가지 않는 것이 있는 것이 같은 것은 것은 것은 것은 것이 있는 것	
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NEDYALKOVA, M. [Nedialkova, M.]; DOBREVA, A.

Sensitizing properties of syntomycin in the me of blood preserved in solution L-12. Probl. gemat. i perel. krovi. ros.: 52-42 (M.HA 19:11) (M.HA 19:11) 1. Institut gematologii i perelivaniya krovi (dir. - V.Secafin v-Fimitrov), Sofiya, Bolgariya.

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G 91. (Tr. Yakutskogo fil. AN SSSR. Ser. fis., 1960, no. 3, 15-21) TEXT: The authors describe in detail the equipment used at Yakutsk for the investigation of cosmic rays in the stratosphere. The radiation was recorded by a counter telescope with double coincidence and single			
TITLE: Study of intensity variations of cosmic rays in the stratosphere PERIODICAL: Referativnyy shurnal, Geofisika, no. 5, 196 ⁴ , 11, abstract 5, 0 91. (Tr. Yakutskogo fil. AN SSSR. Ser. fis., 1960, no. 3, 15-21) TEXT: The authors describe in detail the equipment used at Yakutsk for the investigation of cosmic rays in the stratosphere. The radiation was recorded by a counter telescope with double coincidence and single counter. The total weight of equipment was 2, 150 g. The statistical recording accuracy in the Pfotser maximum (~ 100 g/2m ²) amounts to 1.5-3.0%. Some results of analysing the data for 1957-1959 are given. In particular, the authors reveal that during this period the intensity of cosmic rays at the 50 mb level (~ 20 km) increased by (16±8)% owing to the appearance of additional radiation flux with energies up to (10±2) Bev.	3.2410	5/169/61/000/005/021/049	
<pre>stratosphere PERIODICAL: Referatively shurnal, Geofisika, no. 5, 196', 11, abstract 5 G 91. (Tr. Yakutskogo fil. AN SSSR. Ser. fis., 1960, no. 5, 15-21) TEXT: The authors describe in detail the equipment used at Yakutsk for the investigation of cosmic rays in the stratosphere. The radiation was recorded by a counter telescope with double coincidence and single counter. The total weight of equipment was 2,150 g. The statistical re- cording accuracy in the Pfotser maximum (~ 100 g/om²) amounts to 1.5-3.0%. Some results of analysing the data for 1957-1959 are given. In particular, the authors reveal that during this period the intensity of cosmic rays at the 50 mb level (~ 20 km) increased by (16±8)% owing to the appearance of additional radiation flux with energies up to (10±2) Bev.</pre>	AUTHORS :	Belomestnykh, V.A., Nedsvedskiy, B.S. and Shafer, Yu.G.	
G 91. (Tr. Yakutskogo fil. AN SSSR. Ser. fiz., 1960, no. 3, 15-21) TEXT: The authors describe in detail the equipment used at Yakutsk for the investigation of cosmic rays in the stratosphere. The radiation was recorded by a counter telescope with double coincidence and single counter. The total weight of equipment was 2,150 g. The statistical recording accuracy in the Pfotser maximum ($\sim 100 \text{ g/m}^2$) amounts to 1.5-3.0%. Some results of analysing the data for 1957-1959 are given. In particular, the authors reveal that during this period the intensity of cosmic rays at the 50 mb level ($\sim 20 \text{ km}$) increased by (1628)% owing to the appearance of additional radiation flux with energies up to (10 ⁺ 2) Bev.	TIT LE :	• •	
for the investigation of cosmic rays in the stratosphere. The radiation was recorded by a counter telescope with double coincidence and single counter. The total weight of equipment was 2,:50 g. The statistical re- cording accuracy in the Pfotser maximum ($\sim 100 \text{ g/sm}^2$) amounts to 1.5-3.0%. Some results of analysing the data for 1957-1959 are given. In particular, the authors reveal that during this period the intensity of cosmic rays at the 50 mb level ($\sim 20 \text{ km}$) increased by (16±8)% owing to the appearance of additional radiation flux with energies up to (10±2) Bev.	PERIODICALI	G 91. (Tr. Yakutskogo fil. AN SSSR. Ser. fis., 1960, no. 5,	
	was recorded counter. Th cording accu	stigation of cosmic rays in the stratesphere. The radiation by a counter telescope with double coincidence and single e total weight of equipment was 2,:50 g. The statistical re- racy in the Pfotser maximum ($\sim 100 \text{ g/sm}^2$) amounts to 1.5-3.0%. of analysing the data for 1957-1959 are given. In particular,	

EL'TSOV, Stepan Petrovich; NOVIKOV, Teodor Nikitovich; NEDZVEDSKIY, Pavel Ivanovich; ANDREYEVA, L.S., red.; LAVRENOVA, N.B., tekhn. red.,

[Working time and rest periods of the workers of marine transportation] Rabochee vremia i vremia otdykha rabotnikov morskogo transporta. Moskva, Izd-vo "Morakoi transport," 1961. 174 p. (MIRA 15:8) (Merchant marine)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

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Protocolige, I. A. Protocolige, I. A. TITLE: Study of the opidation of allies in (photographic arthod ,		eptical pol	erisation	B	
TOPIC THES: silies single crystal, hydrogen			instics		
ABOTHECT: The emidstion of the surface of an od in the [111] plane was studied at 70-736 he sults representing a three-hour growth of the above the parabelle law $E^{1,0} = 50.35$. During polishing, the emide layer grow to a thickness fruchly elected allies surface has an effect	n -type si numidity and emide layer the first (no of 17.5)	Lion single 20-30°C. or shared th three hours I. It was f	the kineti the kineti at this gr following found that	erth the the	
tographic destity 2 was plotted as a function see should that fight was formed during the en	a of the out	pionire tine.	Chemical	maly	

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rdance between the i relation of NgOg indi stion of silion in a	estes that the lat	ter may serve as t hered that the sur	he critorics fo face of silicon	wher
spore of a 10% equien 202. Thus, the fract senied during the end	s solution of hydr tion of H ₂ O ₂ evolve	egen peremide dee d amounts to only	agenes 10.21 el	bedroeds 1
MCCLATION: Constitution	telenologicheskiy	institut in. Ha-	. Lenencosta ((Massa
UNITTED: SLJulsa		CL: 00	SUB COGE	
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Qá a		P		

KOLJIKHALOV, P.A.; SHCHBGOLEVA, R.I.; VASIL'YEVA, I.H.; GUDKOVA, T.K.; MAKOVSKAYA, J.G.; TOLSTYKH, A.S.; KRAMCHEHKOVA, L.V.; HEDZVETSKAYA, G.V.; STROKOVA, A.Ya.; GERMANOVICH, B.H., red., KARZHAVINA, Ye., tekhn.red.

> [Economy of Lipetsk Province; a statistical manual] Narodnoe khosiaistvo Lipetskoi oblasti; statisticheskii sbornik. Lipetsk, Lipetskoe knishnoe isd-vo, 1959. 182 p. (MIRA 13:6)

1. Lipetskaya oblast'. Statisticheskoye upravleniye. 2. Statisticheskoye upravleniye Lipetskoy oblasti (for Kolykhalov, Shchegoleva, Vasil'yeva, Gudkova, Makovskaya, Tolstykh, Kramchenkova, Hedsvetskaya, Strokova). 3. Machal'nik Statisticheskogo upravleniya Lipetskoy oblasti (for Germanovich).

(Lipetsk Province-Statistics)

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NEDZVETSKAYA, M.I. [Niedzviets'ka, M.I.], dotsent

Significance of cytology of the varinal secretions in premature births. Ped., akush. i gin. 22 no.4:60-61 '60. (MI:4 14:5)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

- 1. MADEV.TERIY, A.P.; MADENARY, V. .
- 2. Mat (6.1)
- 4. mology, structural wov et Destrai Asia
- 7. Most recent tecturic reverses to de l'atria sula, Asta estavet avaitada estavet estav

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

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NEDZVETSKIY, A.P.; BARATOV, R.B.

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Bibliography: Kh.M. Abdullaev's book "Genetic affinity of mineralisation with granitoid intrusions." Reviewed by A.P. Wedsvetskii, R.B. Baratov. Isv.Otd.est.nauk AN Tadsh. SSR no.12:169-172 '55. MLRA 9:10)

1. Institut geologii AN Tadshikskoy SSR. (Ore deposits) (Abdullaev, Kh.M.)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113(VASIL'KOVSKIY, N.P.; WEDZVETSKIY, A.P. ومرجعه معرور مرار ----Section of the Eastern Kara-Hasar upper-Paleosoic formations compared with the section of the Chirchik-Angren Basin. Dokl. (MLRA 9:11) All Tadsh. SSR no. 17:13-17 '56. 1. Institut geologii Akademii nauk Tadshikskoy SSR i Institut geologii Akademii nauk Usbekskoy SSR. (Tajikistan--Geology, Stratigraphic) NCTE: Vasil'kovskiy, N. P. is member of Inst. Jeology, Acad. ci. UzCUR

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经成果利益



TITLe.	Cpectroscopic Observation of Rotation Mebility of Molecules in Quasi-Liquid Camphene and Tricyclens ("rystais ("pektroskopis cheskoye izucneniye vrashchotel'noy podvizhnosti melekul v kvazizhidkikh kristallakh kamfena i triterkiena)
FERIOLICILE	Izvestiya (касеті) пачк — А. сегіун бітіспезкаун, 1968, 7 і — . Nr 11. pp 1302-1605 (UCCR)
ः B:ाT R⊼ UT ।	Oc-called quasi-induid crystals possess a series of special qualities. Investigations carried out by Gross and Raskin (Ref 1) snored that the dispersion spectra of these crystals are to a large extent similar to the spectra of these crystals The methods of observation of the expansion of dispersion lines, as worked out by the authors (resonance filter method and apectrographic method (Refs 2 and 5)), made closer comparisons possible. Experimental data thus obtained permit the following conclusions to be drawn: The fact that the intensity of an- isotropic dispersion varies only wrightly is the meiting point is passed, seems to indicate that orientational disorder in a
Cara) 2	crystal is not different from the disorder in liquids. The fact

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CCV 48-22-11-1 44 Spectroscopic Observation of Hotation Mobility of Molecules in Jussi-Libid Camphene and Tricyclene Crystals that the width of dispersion lines is equal indicates that the rotary mobility of molecules in quasi-liquid crystals is practically the same as in liquids. These results confirm rrenkel's ideas about orientated melting in quasi-fluid crystals 'Ref ... The lack of orientational disorder in such crystals and the facility for quick re-orientation of their molecules is due to a slight anisotropy and elongation of the respective molecules. This circumstance is obvious from the very low grade of reorientational energy of the molecules $(1, 5 \div 1, \gamma, kilocalorie mol)$ which is only two times greater than the average energy of a single degree of freedom of the oscillation movement. There are I figure, 2 tables, and 5 references, which are swiet. ting a s

24,3430 (1227,1395,1163)

3/181/61/003/011/051/056 E104/E138

AUTHORS: Gross, Ye. F., Kalyuzhnage J. K., and Hedzvetskiy, D. S.

TITLE: Complex structure of the absorption spectrum of monocrystalline gallium phosphile

PERICDICAL: Fizika tverdogo tela, v. 4. co. 11, 1961, 3543-3545

TEXT: Single crystals of GaP were investigated at nitrogen temperature. Single crystals 4 to 5 mm long, 0.3 mm to a few microns thick were obtained from the melts by crystallization (G. Wolff et al., Bull. Am. Phys. Soc., 29, 1, 1954). In transmitted light this crystals appeared orange and thick ones yellow-green. The absorption spectra were taken with an MCH-67 (ISP-67) spectrograph with a camera of 1800 mm focal length. In the region studied the dispersion was 10.5 Å/mm. The absorption edge of a GaP single crystal is shown in Fig. 1. This spectrum was taken for specimens that had been cooled slowly. Rapidly cooled spectrums had only one broad line (5363.2 Å) which is shifted into the long wave range by a few angstroms. The lines can be grouped in pairs, an intense narrow and a welk narrow line, a weak and a strong broad line, ard two broad lines. The distance Card 1/4

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Complex structure of the absorption

between the lines in each pair is 130 cm within the limits of error. It is concluded from this structure that the valence band of the crystal consists of three bands from each of which the electrons make transitions to two discrete levels below the bottom if the conduction band, under the action of light. A possible energy level scheme is shown in Fig. 2. There are 2 figures, 1 table, and 7 references: 2 Soviet and 5 non-Soviet. The three most recent references to English-language publications read as follows: E. O. Kane. J. Phys. Chem. Schlis. 1, 249, 1957; F. Stern, R. M. Talley. Phys. Rev., 108, 158, 1957; R. Fraunstein, J. Phys. Chem. Solids, 8, 280, 1959.

ASSOCIATION: Leningradskiy gosudarstv-nryy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: July 15, 1961

Card 2/4 ----

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

8/020/62/146/005/005/011 **3125/3186**

Gross, Ye. F., Corresponding Member AS USSR, Nedsvetskiy, D. S. AUTHORS : Resonance and non-resonance radiation of centers in a GaP TITLE: crystal and interaction with the lattice phonons PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 5, 1962, 1047-1050 TEXT: The luminescence of exceptionally pure GaP crystals was studied at T = 4.2 K. About 100 lines were discovered in the luminescence spectrum, formed probably by superimposition of several spectra. A group of intense lines was separated out; this recurs regularly (up to seven times with sufficient exposure), decreasing in intensity each time. Comparison of the absorption spectrum with the luminescence spectrum shows that the absorption line o corresponds to direct electron transition. The broad luminescence and absorption lines are approximately symmetric with respect to the ν_{α} line. The slight deviation from Levshin's law of mirror symmetry is probably due to size differences of the phonons in the excited and the non-excited electron states. A very intense, marrow, sharp line of Card 1/3

GROSS, Ye,F.; NEDZVETSKIY, D.S. Fine structure of the damping times for edge radiation bands in GaP crystals. Dokl. AN SSSR 152 no.2:309-312 5 '63. (MIRA 16:11) 1. Chlen-korrespondent AN SSSR (for Gross).

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GROSS, Ye.F.; NEDZVETSKIY, D.S.

Generation of long-wave edve-luminescence bands in GaP crystals. Dok1. AN SSSR 152 no.6:1335-1338 0 '63. (MIRA 16:11)

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ACCESSION NR: AP4041729	\$/0181/64/006/007/2180/2183
AUTHORS: Gross, Ye. F.; Nedzvets	kiy, D. S.
TITLE: Change in luminescence sp tion of the intensity of the exci	ectrum of GaP crystals as a func- ting light
SOURCE: Fizika tverdogo tela, v.	6, no. 7, 1964, 2180-2183
TOPIC TAGS: gallium compound, lum mation, spectrum intensity, light	minescence spectrum, crystal for- excitation, electron capture
152, 309, 1963; 154, 64, 1964).	ance spectra of "pure" GaP crystals h (DAN SSSR v. 146, 1047, 1962; In the present study the authors ical change in the relative inten-
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ACCESSION NR: AP4041729

A, B, and C of Enc. 01 were observed. When the light intensity was reduced to one-tenth, spectrum A, which originally was brightest, was strongly attenuated, and spectrum B became brightest. Further decrease of the intensity to 1/100 of the initial value left only the end bands of spectrum B. Spectrum A could not be photographed even when spectrum B was over exposed. This points to the presence of a threshold excitation intensity, below which only the edge bands are excited in GaP, and the remaining luminescence spectra do not appear. This threshold value varied from crystal to crystal. The phenomenon is explained by assuming that the electron capture cross section for the centers producing spectrum B is much larger than for the other spectra. Orig. art. has: 2 figures.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet (Leningrad State University)

SUBMITTED: 29Jan64

Card 2/4

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ACCESSION NR: AP4010750 S/0020/64/154/001/0064/0067 AUTHOR: Gross, Ye, F. (Corresponding:member); Nedzvetskiy, D. S. TITLE: Converging line spectrum of luminescence in GaP-crystals SOURCE: AN SSSR. Doklady*, v. 154, no. 1, 1964, 64-67 TOPIC TAGS: GaP-crystals, crystals luminescence, hydrogen-like line spectra, crystal lattice defects, impurities in crystals, acceptor energy levels ABSTRACT: It has been previously found by several investigations that the luminescence spectra of GaP greatly depend on the excitation conditions which indicates that impurities and lattice defects affect the luninescence. It is shown in the present paper that in some of the investigated GaP-crystals the luminescence spectrum contains many lines, and can be considered as a superposition of several spectra. In addition to the spectra previously reported, this group of crystals shows a line sequence apparently of a common origin. The position of the lines can be described by a Balmor-like formula. The intensity of the Cerd1/2 ŀ

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113(CROBS, Ye.F.; NEDZVSTSKIY, D.S. Changes in the luminescence spectrum of GaP crystals as dependent on the intensity of the exciting light. Fig. twor. tels 6 no.712180-2183 J1 %4. (MIRA 17:10) 1. Leningredskiy gosudarstvennyy universitet.








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NEDZVETSKIY, G.V.

Resistance welding of a kowar pipe and with an outlet into 5-7 semiconductor diodes. Avtom. svar. 17 no.3:84-85 Mr (6... (MIRA 17:11)

1. Bryanskiy institut transportnogo mashinostroyeniya.



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PERIODICAL ABSTRACTS

Sub.: USSR/Engineering

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NEDZVETSKIY, G. V.

VLIYANIYE SKOROSTI VRASHCHENIYA ELEKTRODOV NA SOPROTIVLENIYE PRI ROLIKOVOY SVARKE (Effect of Electrodes Rotation Speed on Resistance in Seam Welding). Svarochnoye proizvodstvo, no. 1, Ja 1956: 7-9.

Research was conducted to ascertain the influence of roller speed and pressure in seam welding of carbon and galvanized metal sheets. Analysis was made of contact and intermediate resistances, the interdependence between the speed of rotation, the pressure exerted by rollers, the thickness of welded sheets and other characteristics. The author presents concise results and observations on the experiments. Four graphs and 1 sketch.

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INF BOLLAND THE MAN			
SUBJECT:	USSR/Welding	135-2-3/12	
AUTHOR:	Nedsvetskiy, G.V., Candidate of Technical Sciences.		
TITLE:	Welding without circuit interrupters. (Parametry reshime svarki bes preryvatelya).		
PERIODICAL:	"Svarochnoye Proizvodstvo", 1957, # 2, pp 11-12 (USSR)		
ABSTRACT :	The article reviews briefly the general principles of con- tinuous seam welding (without the use of circuit interrupter) which is widely used for joining sheet metal in ultimate thick- ness up to 1 mm - and describes the experiments conducted at the author's institute with the aim to find the best suitable weld- ing technology for low-carbon steel.		
	Welding speed, ourrent density, electronic steel gauge, size of electrodes, clear investigated as factors influencing the of welded joints. Described and show are two welding fixtures - one for welding the other for welding tin boxes and statements.	nliness of surface were he quality and strength h in schematic drawings lding sinc sheet boxes,	
Card 1/2	The welding machines used in the exper	rimente vere: AW-16-2;	

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TITLE:	Welding without circuit interrupters. (Parame svarki bes preryvatelya). 135	try reshine 5-2-3/12
	AUT-25, AU _25-4, MUTIL -100. The two latter are also used for welding cylindrical parts of small diameters. A diagram showing the relation between the sheet metal gauge and the welding speed, and the required electric power (in A/hr) and electrode pressure has been plotted.	
	The article contains 4 diagrams, 2 drawings, (macro-structure).	l photograph
INSTITUTION	Beshitsa Institute for Transport-Machinebuild (Beshitskiy institut transportnogo machinostr	
PRESENTED BY	I	
SUBMITTED:		
AVAILABLE:	At the Library of Congress	
Card 2/2		

NEDZVETSKIY, G. V. (Docent)

Z2411521

"Resistance Welding of Galvanized Steels," p. 143 in book <u>Reports of the Interuniversity Conference on</u> Welding, 1956. Moscow, Mashgis, 1958, 266pp.

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CIA-RDP86-00513R00113("APPROVED FOR RELEASE: Wednesday, June 21, 2000 . Ţ. NEDZVETSKIY, G.V., kaniidat tekhnicheskikh nauk. Parameters of seam welding without interrupter. Svar. proisv. no.2:11-12 1 157. (MIRA 10:3) 1. Beshitskiy institut transportnoge machinostroyeniya. (Electric welding) APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136







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