CIA-RDP86-00513R00041211

"EL'YASBERG, M.Ye.; VERKHOLAT, N.Ye.; HUBASHKIN, I.B. (MIRA 13:8) trichestvo no.8:95-96 Ag '60. (Machine tools) (Sandler, A.S.) Ň

"APPROVED FOR RELEASE: Thursday, July 27, 2000

#### CIA-RDP86-00513R00041211

s/121/62/000/010/001/005 p040/p112

AUTHOR: El'yasberg, M.Ye.

TITLE: The fundamentals of a theory of self-excited chatter in metalcutting

PERIODICAL: Stanki i instrument, no. 10, 1962, 3-8

TEXT: This article, which is to be continued, deals with a new theory explaining the self-excited chatter in metal cutting (M.Ye. El'yasberg, "Izvestiya AN SSSR, ONTI", no. 9, 1958; M.Ye. El'yasberg, "Stanki i instrument", no. 3, 1959), based on the discovery that the cutting force P and the friction force & on the cutter face (Fig.1) are "delayed" forces, i.e. forces coming into effect with a delay. The article contains more accurate data on the constants characterizing this delay in cutting different stells with different speeds and feeds. This data, gathered since publication of the author's earlier work, will make it possible to calculate vibration-free machine tools more accurately. The chip formation process is analyzed, and illustrated by graphs and high-speed photographs. Empirical research data are given for low-carbon and high-carbon steel grades 25 and 50; The data are accompanied by graphs. There are 10 figures.

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EL'YASBERG, P.Ye.

EL'SBERG, P.Ye,

Determining the density of the upper atmosphere by means of secular changes in the elements of orbits of the first two artificial earth satellites. Isk.sput.Zem. no.1:21-24 '58. (MIRA 12:2)

(Artificial satellites) (Atmosphere, Upper--Rocket observations)

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EL'YASHERG, P.Ye.

Relationship between secular changes in orbit elements and the air resistance. Isk. sput. sem. no.3:54-60 '59.

(MIRA 12:12)

(Artificial satellites)

EL'VASDERG, P.VE. PHASE I BOOK EXPLOITATION 80V/4281 Akademiya nauk SSSR Iskusstvennyye sputniki xemli, vyp. 4 (Artificial Earth Batellites, No. 4) Moscow, 1960. 205 p. Errata slip inserted. 6,500 copies printed. Resp. Ed.: L.V. Kurnosova; Ed. of Publishing House: M.I. Fradkin; Tech. Ed.: T.P. Polenova. PURPOSE: This collection of articles is intended to disseminate data collected in investigations performed by means of artificial earth satellites. COVERAGE: The collection consists of 15 articles dealing with scientific data on Soviet artificial earth satellites (AES) and commic rockets. The topics discussed include measurements of the density of the upper atmosphere, motion of AES, measurements of micrometeorites and meteoric matter, magnetometric measurements of cosmic rays, electrical potential, and spectrum of positive ions. The collection is part of a series published regularly. References follow each article. Card 1/6

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EL'YASBERG, P. YE. (Moscow)

1

"Approximate formulas for determining the life time of Earth satellites".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

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ACCESSION NR: AP4034792 S/0293/64/002/002/0198/0218	:
AUTHOR: El'yasberg, P. Ye.	
TITLE: Approximate formulas for determining the lifetime of artificial Earth satellites	
SOURCE: Kosmichoskiye issledovaniya, v. 2, no. 2, 1964, 198-218 TOPIC TAGS: satellite, artificial earth satellite, sputnil:, satellite lifetime, air resistance	
ABSTRACT: It is well known that the lifetime of artificial Earth satellites is basically detormined by the effect of atmospheric resistance, but also by the perturbing influence of the Moon and Sun. The present article deals with the derivation of approximate formulas 'for determining the lifetime of such artificial satellites, flying at a relatively low height, for which the air resistance is decisive while other disturbing factors may be disregarded. The following are the author's fundamental assumptions in this connection: 1. The Earth is a sphere with radius $R = 6371$ km. 2. In determining the orbit, only the attraction toward the Earth and the air resistance are taken into account. 3. The acceleration due to gravity is directed toward the center of the Earth and its modulus equals $g = \mu/r^2$ , where r is the distance from the center of the Earth and the coefficient $\mu = 3.986 \cdot 10^5$ km <sup>3</sup> /sec <sup>2</sup> . The deceleration due to air resistance J is determined by the formula $J = c \rho v^2$ , $o = c_x F_m$ , and $\frac{1/3}{2m}$ .	

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where  $\mathcal{C}$  is the density of air, v is the speed of the satellite with respect to the air,  $c_x$  is the air resistance,  $F_m$  and m are the area of the mid section and mass of the satellite. 5. The effect of atmospheric rotation can be disregarded. 6. The air density  $\mathcal{C}$  depends only on the flight altitude h = r - R. 7. The air density  $\mathcal{C}$  as a function of the altitude h is determined on the basis of the socalled isothermic model of the atmosphere, according to which  $\mathcal{C} = \mathcal{C}_p \exp(-\frac{h-h_p}{R})$ , where hp is the height of orbital perigee;  $\mathcal{C}_p$  is the air density of the height hp. H is the height of the uniform atmosphere at periods.

at the height hp; H is the height of the uniform atmosphere at perigee. If any other arbitrary atmospheric model is used, the constants  $\rho_p$  and H should be determined from the formulas:  $\rho_p = f(h_p)$ ,  $H = \frac{f(h_p)}{df(h_p)/dh} = -\frac{1}{dlnp(h_p)/dh}$  Table 1 in the original shows the values of  $\rho'$  (h)

and H, determined by this formula, for the atmospheric model CIRA-1961 which was used in this paper. The author then considers the following basic aspects of this general problem: secular perturbations of orbital elements, satellite lifetime in circular orbits, the lifetime of satellites in orbits with considerable eccentricities, the life ime of satellites in orbits with small eccentricities. The result is a system of approximate formulas which embrace

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# ACCESSION NR: AP4034792

the entire possible range of eccentricity  $0 \le e < 1$ . The article concludes with a comparative analysis and evaluation of the accuracy of the derived formulas, in which the author points out that these formulas contain errors caused by neglecting the principal sources of perturbations i.e., the elliptical shape of the earth, the lunar and solar attraction and the heterogeneous structure of the atmosphere. The lifetime of a satellite also depends on the eccentricity of its orbit, and the formulas derived are valid only at eccentricities far from the critical value. Orig. art. has: 2 figures, 4 tables and 51 formulas.

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El'yasberg, Pavel YEfimovich
Introduction to the theory of <u>flight</u> of artificial Earth satellites (Vvedeniye v teoriyu poleta isskusstvennykh sputnikov Zemli) Moscow, Izd-vo "Nauka," 1955. 540 p. Illus., biblio., index., tables. 3700 copies printed. Series note: Mekhanika kosmicheskogo poleta
TOPIC TAGS: space flight, artificial satellite orbit, space tracking, astronautics,
PURPOSE AND COVERAGE: The author attempts to give a systematic outline of the theory of flight of artificial Earth satellites. Much attention is paid to the formulation of laws governing the motion of a satellite on the unpowered-flight portion of its trajectory but for the sake of continuity, the book includes certain
subjects which are usually dealt with in classical celestial mechanics. However, the basic content of the book consists in the analysis of problems which are usually not considered in the classical celestial mechanics textbooks, but are of para- earth satellites, such as: investigation of satellite motion along circular and almost circular orbits; analysis of all possible versions of perturbed orbit
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passing through two given points; the effect of variation of initial conditions motion on the elements of elliptical orbits; variation of current characteris of motion (of coordinates and of velocity vector components) due to deviation from the initial conditions of motion; the effect of the oblatness of the Earth of air resistance on the motion of artificial satellites; determination of the I of satellites, and the effect of the perturbation of the Sun and the Moon on th motion of the Earth's artificial satellites. The book is intended for a wide r of specialisis who encounter various problems in the flight theory of artifici satellites, and also for university students having courses on the subject of above theory. Contributions to the preparation of the book were made by the following: V. Ye. Volkov, I. G. Miroshnichenko, I. F. Petrovich, Ye, G. Portnov, A. I. Tkanchenko, A. A. Usikov, V. G. Khoroshavtsev, M. S. Shirokov, Z. K. Kuznetsova, Z. G. Androsova, and L. N. Kasatkina.	and ife e ange al
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Appendix I. Table of the basia parameters of the atmosphere CIRA 1961 5	- 17	
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GYOZDEV, V.S., kandidat tekhnicheskikh nauk.; EL'YASBEEG, S. Ye., inzhener. Rebuilding of old dams serving metallurgical plants in the Urals. Stal' 16 no.9:831-835 S '56. (MIRA 9:11) 1. Sverdlovskiye filialy Vsesoyusnogo instituta elektrifikateii sel'skogo khomyaystva. (Ural Mountain ragion--Metallurgical plants) (Dams)

1.

EL'yas	sberg, S. Ve.		<u>.</u>
AUTHOR :	El'yasberg, S. Ye., Engineer,	98-1-13/20	
TITLE:	Packing of Loam Into Cavities of a Spillwa Conditions (Ukladka suglinka v pazukhi vode usloviyakh)	· · · · · · · · · · · · · · · · · · ·	
PERIODICAL:	Gidrotekhnicheskoye Stroitel'stvo, 1958, #	1, pp 50 (USSR)	
ABSTRACT I	In March 1957, the necessity arose to co of a hydroelectric power plant, under const spetsstroy". The packing of loam was start and finished by April 7, at average daily to $+ 0.5$ to $- 15.1^{\circ}$ C. Prior to starting, snow and the foundation was heated with open fir by an excavator with a capacity of 0.5 cu m work proved the practicality of filling-up such temperatures, the work is carried out quarry is located nearby.	omplete the spillway truction by "Ural- ted on March 24, emperatures of and ice was removed, ces. Loam was handled t. The accomplished	
AVAILABLE:	Library of Congress		
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EL'YASBERG, S. YE. AUTHOR: El'yasberg, S.Ye., Engineer 98-58-5-17/33 TITLE: Rationalization and Inventions (Ratsionalizatsiya i izobretatel'stvo). The Use of Slag in Hydrotechnical Construction (Primeneniye shlaka v gidrotekhnicheskom stroitel'stve) PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 5, pp 49-50 (USSR) **ABSTRÁCT:** In the Urals, basic and sour metallurgical slag is very often applied in the construction of low-pressure dams. The slag is used to protect the slopes of cofferdams from being scoured and also to reinforce the sides of temporary spillways, etc. Due to insufficient experience, however, it is too early to make final conclusions on the utilization of slag in hydrotechnical structures, but the possibility of utilizng s<sup>1-+</sup> in temporary and light duty con-struction is already reed upon. There are 2 schematic drawings. AVAILABLE: Library of Congress Card 1/1

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CIA-RDP86-00513R00041211(

AUTHOR:	SOV-98-58-9-10/21 El'yasberg, S.Ye. and Leonov, G.I., Engineers	·
TITLE:	The Dissipation of Stream Energy in the Lower Waters of Low Pressure Dams (Gasheniye energii potoka v nizhnem b'yefe nizkonapornykh plotin)	
PERIODICAL:	Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 9, pp 31 - 33 (USSR)	ſ
ABSTRACT :	The authors recommend the construction of overflow sills with their terminal parts working as console water spill- ways for low pressure dams, instead of installing expens- ive reinforced concrete apron wells. It was observed that overflow sills in the old dams successfully protect them from the erosive action of lower waters. There are 3 dia- grams and 2 Soviet references.	
	1. DamsDesign	
Card 1/1		

14(10)		
T4(TO)	SOV/98-59-2-13/22	
AUTHOR:	Gvozdev, V.A., Candidate of Technical Sciences, and El'yasberg, S.Ye., Engineer	
TITLE:	Liquidation of Old Structures in the Body of Earth Dams (Likvidatsiya starykh sooruzheniy v tele zemlyanykh plotin)	
PERIODICAL:	Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 2, p 48-49 (USSR)	
fillers di foundation tried out o Ural region	The authors propose a simple method of liquidating ures in the shafts of earth dams during their recon- The method consists of erecting an anti-filter dia- line of the existing cut-off wall and pouring the rectly into the old opening of the dam. The old parts remain in the body of the dam. This method, luring the reconstruction of numerous dams in the h, was found to be much more simple and economical methods proposed by various planning organizations.	



14(10)	SOV/98-59-5-11/21	
AUTHOR :	El'yasberg, S.Ye., Engineer	
TITLE:	Filling the Gaps at the Construction of Earth Spill- ways	
PERIODICAL:	Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 5, p 38 (USSR)	
ABSTRACT :	The article is concerned with filling the gaps of two small earth dams built in the Central and North Urals in 1957. In this connection, the name of V.S. Gvozdev is mentioned. The author is of the opinion that the filling of gaps can be carried out in a more liberal way than prescribed by the planning organizations. However, this operation must be carried out in due time with subsequent rising of the water level and depending on what kind of filling material is available. There is 1 Soviet reference.	
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EL'YASH, M.L. New designs of sand blasting equipment. Mash. i neft. obor. no. 11:33-35 '65. (MIRA 18:12) 1. Nauchno-issledovatel'skiy institut po montazhnym i spetsial'nym stroitel'nym rabotam.

EL'YASHBERG, F. Ye.

El'yashberg, F. Ye. "Report on the Conference of Scientific Bases of the Ukrainian Central Science-Research Institute of Orthopedics and Traumatology inteni Professor M. I. Sitenko / Stalino, November 1947 /, -- Author indicated in table of contents--In symposium: Ucnen. zapiski (Ukr. tsentr. nauch.-issled. in-t ortopedii i travmatologii im. Sitenko), Khar'kov, 1948, p. 179-88

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

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121. VAS " BERG, F. 10 EL'YASHBERG, F. Ye., starshiy nauchnyy sotrudnik and a stand of the state of the state of the Old traumatic dislocations of the hip and their therapy. Ortop. travm. 1 protes. no.4:13-16 J1-Ag '55. (MLRA 8:10) 1. Is Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M.I.Sitenko (dir.-saslushennyy deyatel' nauki prof. N.P. Novachenko) (HIP, dislocations, : ther.old disloc.) (DISLOCATIONS, hip, ther.,old disloc.) .
EL'YASHBERG, F.Ye., starshiy nauchnyy sotrudnik a and realized to provide the state of the second state of the sec Thirty years of medical educational, and public activities of N.P. Novachenko. Ortop.travm. i protez. 20 no.6:10-15 Je '59. (MIRA 13:3) (BIOGRAPHIES, Novacbanko, Nikolai P. (Rus)) 1 -

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CIA-RDP86-00513R00041211



APPROVED FOR RELEASE: Thursday, July 27, 2000

EL'YASHBERG, F. Ye., starshiy nauchnyy sotrudnik

Role of skeletal traction in some operations on the bones and joints. Ortop., travm. i protes. no.12:28-32 <sup>61.</sup> (MIRA 15:2)

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1. Is Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M. I. Sitenko (dir. - chlen-korrespondent AMN SSSR prof. N. P. Novachenko)

(BONES-SURGERY) (ORTHOPEDIA)

APPROVED FOR RELEASE: Thursday, July 27, 2000

EL'YASHBERG, F.Ye., starshiy nauchnyy sotrudnik; ALEKSANDROVA, I.A., kand. med. nauk

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Disability analysis following fractures of the femur and leg bones; based on data of the Medical Expert Commission for Work Capacity Evaluation and of the M.I. Sitenko Ukrainian Institute of Orthopodics and Traumatology. Ortop., travm. i protez. no.9:67-72 '62. (MIFA 17:11)

1. Iz Ukrainskogo instituta ortopedii i travmatologii imeni Sitenko (dir. - chlen-korrespondent AMN SSSR prof. N.P. Novachenko). /dres avtorov: Khar'kov, Pushkinskaya ul., d.80, Institut ortopedii i travmatologii.

APPROVED FOR RELEASE: Thursday, July 27, 2000

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211
EL'TASHBERG, F.Ye., starshiy nauchnyy sotrudnik (Khar'kov)
Review of F.W. Rathke's book "Manual for the hospital orthopedist".
Ortop., travm. i protez. 24 no.11:85 N '63.
(MIRA 17:10)

$\frac{L 18173-63}{ASD/SSD/IJP(C)} EPR/EWT(d)/EPF(c)/EWT(1)/EPF(n)-2/EWP(q)/EWT(m)/BDS AFFTCASD/SSD/IJP(C) Po-4/Pr-4/Pu-4 JD/WW/JW/JC/DE$		
ACCESSION NR: AP3005216 S/0053/63/080/002/0331/0337		
AUTHORS: Bresler, M. S.; Kogan, A. V.; Shalyt, S.S.; Elyashberg, G. M. 123		
TITLE: <u>All-union conference on low-temperature physics</u>		. • 1
SOURCE: Uspekhi fizicheskikh nauk, v. 80, no. 2, 1963, 331-337		
TOPIC TAGS: Low temperature physics, conference		
ABSTRACT: The 1962 annual Vsesoyuznoye soveshcheniye po fizike nizkikh temperatur (All-union conference on low-temperature physics) was held in Leningrad from 26		
June through 1 July. The introductory address was made by N. Ye. Alekseyevskiy, chairman of Uchenv*y sovet problemy fiziki nizkikh temperatur (Sicence council for		
low-temperature problems). V. P. Peshkov discussed the basic trends of research and the various results obtained since the time of the preceding conference.		
B. N. Yesel'son and V. G. Ivanov extended the surface-tension/measurements	a E	•
hitherto conducted for weak solutions of He <sup>3</sup> in He <sup>3</sup> to include large He <sup>3</sup> concen- trations (1050%). K. N. Zinov'yeva described investigations of the diagram of		
state of He3-He <sup>4</sup> solutions at elevated pressures and at temperatures below 1.5°K. N. G. Bereznyak, I. V. Bogoyavlenskiy, and B. N. Yesel'son directed attention		
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L-18173-63--ACCESSION NR: AP3005216 primarily to solidification in mixtures containing up to 76% He<sup>3</sup>. D. A. Tsakadze reported measurements of the coefficient of mutual friction along vortex lines. Yu. G. Mamaladze presented a theoretical treatment of critical velocities for vorsex formation in He II. A. F. Andreev investigated the influence of conduction electrons on certain phenomena on the boundary between a metal and liquid helium. I. P. Ipatova and G. M. Eliashberg presented a theoretical study of the paramagnetic relaxation in liquid He<sup>3</sup>. N. V. Zavaritskii described an investigation of the tunnel effect tetween a tin film and monocrystalline samples of varying crystallographic orientation. Various problems in the synthesis of superconducting alleys possessing extremely high critical magnetic fields (in the hundreds of thousands of Oersteds) and their use in solenoids for generation of strong magnet: c fields formed the subjects of several papers (N. E. Alekse yevskiy, et al., B. (J. Lazarev, et al., V. R. Kırasik, S. Sh. Akhmedov). A. M. Kolchin, N. I. Krivko, and N. M. Reynov measured the surface impedance of the alloy, Nb - Zr. N. B. Brandt and N. I. Ginzburg have found a large difference in the properties of the two superconducting modifications of bismuth B. G. Lazarev, L. S. Lazereva (Kan), and V. I. Makarov continued their previous studies of the pressure dependence of the critical temperature for tin and thallium. Measurements of the pressure dependence of the critical temperature for Nb3Sn were reported by Set 1/2, Card 2/3 

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"APPROVED FOR RELEASE: Thursday, July 27, 2000

13 L 18173-63 ACCESSION NR: AP3005216 B. G. Lazarev. L. S. Lazareva (Kan), O. N. Ovcharenko, and A. A. Matsakov. The quenching of superconductivity by current and the distribution of phases in the intermediate state have been investigated by N. E. Alekseyevskiy and E. A. Troynar by the ferromagnetic powder technique. A study has also been undertaken of the kinetics of the quenching of superconductivity by current (A. P. Smirnov, A. V. Rumyantseva, and V. N. Totubalin). A theoretical paper by I. A. Privorotskiy was devoted to the absence of an isotope effect for ruthenium. "A paper by M. S. Knaykin and colleagues - R. T. Mina and V. S. Ekel'man - dealt with a cyclotron resonance of tin, lead<sup>2</sup> and bismuth. V. F. Cantmakher found a new dimensional effect in thin specimens of tin while making measurements of the surface impedance of the samples at frequencies of 1 - 5 Mc. [For Complete Set See: Bresler, M. S. 7 All-union conference on low-temperature physics T

Set 1/2, Card 3/3

APPROVED FOR RELEASE: Thursday, July 27, 2000

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AUTHORS: Bresler, M. S.; Kogan, A. V.; Shalyt, S. S.; Elyashberg, G. M. 9/	
TITLE: <u>All-union conference on low-temperature physics</u>	•
SOURCE: Uspekhi fizicheskikh nauk, v. 80, no. 2, 1963, 331-337	
TOPIC TAOS: Low temperature physics, conference	
ABSTRACT: <u>E. P Vol'skiv</u> measured the quantum oscillations in the quasistatic conductivity of bismuth in a magnetic field at frequencies of $3-5$ Mc. Papers by <u>V. P. Naberezhnykh</u> , <u>A. A. Galkin and V. L. Mel'nik</u> , and by <u>P. A. Bezugly</u> , A. A. Galkin and <u>A. I. Pushkin dealt with investigations of cyclotron resonance and magnetoacoustic resonance in the same samples of <u>aluminum</u>, which made possible the direct comparison of results and simplified the reconstruction of the topology of the Fermi surface. N. E. Alekseyevskiy reported on galvanomagnetic investi- gations of the transition metals (N. E. Alekseyevskiv, <u>V. Egorov</u>, <u>B. N.</u> <u>Kazak</u>, and <u>G. E. Karstens</u>) in strong magnetic Set 2/2, Card 1/5</u>	
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-	e erecorrear les	LUCANCE AND OT 1	Che Hall effer	t in codmine//	- 2		
OTOPS	skaya and N. Ya.	Fogel' have inv	ound for all c	f these metals. vanomagnetic phen	<u>V. G.</u>	·	
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lous ensic	values not excee mal effects in a	ding(200). R	N Alekcandy	ov reported on a for high-puricy		į	1
بهريكية تقبلها بخد		' described a th	POrv Which he	had downlowed for			
ງປະເບບ	ron resonance.	N. B. Brandt. N	I. N. Stunoche	רבניים לה המה מאח			
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70677	nov and v. G. Sk	ODOV. L. A. FAI	kovekiv and	A. A. Abrikosov he group (bismuth, an			
ntimo	ny) by group the	ory methods, ut	ilizing quali	tative ideas conce	rning the	-	
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et 2/	2, Card 2/5	*		•		[]	

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L 18173-63		
ACCE ISION NR: AP3005216 23	1	
of cuprous oxide. <u>Yu. N. Obraztsov</u> developed a theory for thermomagnetic effects in sumiconductors in quantized magnetic fields. A paper by <u>I. I. Boyko</u> , <u>E. I.</u> <u>Rashba</u> and <u>V. I. Sheka analyzed the conditions leading to the possible observation of a new resonance effect in semiconductors, due to spin-orbit coupling. M. I. <u>Kaganov</u> and <u>I. M. Lifshits</u> computed the absorption of light in a metal whose Fermi surfaces contain degenerate points (evidently this is characteristic only of graphite). The Shubaikov-de Haas effect in A<sup>III</sup> B<sup>IV</sup> compounds of electronic type was investigated in pulsed fields of up to 460 k0e by Kh. I. Amirchanov, R. <u>I.</u> <u>Bashirov</u>, Yu. E. Zakiev, and A. Yu. Mollayev. A. V. Yemel'yanenko and D. N. <u>Masledov</u> studied the electrical properties of <u>Gallium</u> arsenide'Having a carrier concentration of <math>5 \times 10^{15} - 5 \times 10^{10}</math> cm<sup>-3</sup>, but with varying total impurity con- centrations. N. E. Alekseyevskiy, <u>Fam Zui Khien</u>, V. G. Shapiro and V. S. Shpinel' have measured the resonance absorption probability for 28.3 keV gumma-quanta in slices of crystalline tin cut along various crystal planes. Rescuance absorption</u>	n f	
of 35 keV gamma-quanta in Te <sup>12</sup> formed the subject of a paper by 7. V.	1	
Sklyarevskiy, B. N. Samoylov, E. P. Stepanov, I. I. Lukashevich, and R. A. Manakhov. Yu. M. Kagan delivered his paper 'Toward a Theory for the Redward		
Thermal Displacement of the "Mossbauer Line". Papers "Assymetry of -radiation		
in Certain Nuclei, Polarized in an Alloy with <u>Iron</u> " and "Nuclear Specific Heats $\mathcal{V}$		
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"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041211

L 18173-63-----ACCESSION NR: AP3005216 structure of the bismuth type of lattice and the nature of the transition from "good" metals to dielectrics under deformation. R. G. Arkhipov derived a criterion for the occurrence of metals with small electron concentrations. M. I. Kaganov and V. G. Feschanskiy analyzed various mechanisms for the absorption of ultrasound in metals. V. P. Dobrego and S. M. Ryvkin studied conductivity in germanium alloyed with Group V or III impurities and having carrier concentrations of  $10^{15} - 10^{16}$  cm<sup>-3</sup>, in the presence of compensating impurities. S. E. Ryvkin, V. P. Dobrego, <u>B. M. Konovalenko</u>, and <u>I. D. Yaroshetskiy</u> have observed the appearance of the so-called induced impurity breakdown in germanium samples of the same degree of purity, but fully compensated. M. I. Kaganov proposed/that attempts be made to observe additional exciton waves in a crystal due to the presence of space dispersion, using the deceleration of fast particles in a dielectric. L. S. Kukushkin spoke on his theory of non-radiative transition processes in molecular crystals. A paper by A. R. Kessel' and U. Kh. Kopvillon presented a calculation of the sensitivity of a quantum phonon counter which utilizes atoms in the ground state rather than in an excited state, so as to reduce the noise level. A paper was also presented by A. A. Kaplyanskiy on the influence of uniaxial deformations upon the optical spectra of crystals of the type of Ca F2, Li F, etc., containing various impurities, as well as upon the exciton spectrum Set 2/2, Card 4/5 د. محمد المراجعة هذه المراجع المحم

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ACCESSION NR: AP3005216	13-1	
of Cartain Elements Alloyed with Iron" were delivered by A. V. Kogan, V. Kul'kov, L. P. Mikitin, N. M. Reynov, M. F. Stel-makh, and M. Shott. "Dyr Polarization of Protons in Lanthanum-Magnesium Double When the Shott."	D.	
Concerned with the investigation on Yu. V. Taran. A large number of no	ed by	
devoied to tachnimus for the fitted at the conference. A special session	0-	
tures, and concerning the mechanical properties and optics of crystals at low	th pro-	
summuries of the parameters research. On the last day of the com	pulsed	
current sessions of industrial and the practice of combining plenary sessions wi	vskiy,	
the unnually increasing flood of pousible to "boil down" to reasonable di	fic mensions	
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No REF Sov: 000 Set 2/2, Card 5/5 All-union conference on low-temperature physics	00 - 00	:
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. 00772 67 EWT(m)/RWP(t)/BTL/RWP(t) IJP(6) JD/RW ACC NR: AP6022883 SOURCE CODE: UR/0121/66/000/004/0012/0016 28 AUTHOR: El'yasberg, M. Ye. B ORG: None TITLE: Absolute vibration stability with respect to cutting speed in metal-cutting machine tools Ъ SOURCE: Stanki i instrument, no. 4, 1966, 12-16 TOPIC TAGS: machine vibration, metal cutting machine tool ABSTRACT: Stability regions are set up with respect to the cutting speed  $v_{\mu}$  for a metal--cutting machine tool considered as a self--oscillating system. In general, a system with given parameters (except  $v_{g}$ ) with two degrees of freedom has a first stability region 0-1 (see

figure), a region of instability 1-3 and a second stability region 2- $\infty$ . This is taken as the basic system with one degree of freedom in the direction x of the force of friction Q and the other

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EL YASHEV, Y.I. (Berezovsk) Dynamics of silicosis in miners. Gig.truda i prof.zab. 1 no.3: 7-11 My-Je '57. (MIRA 11:1) 1. Berezovskaya opytnaya stantsiya Instituta gigiyeny truda i profzabolevaniy AMN SSSR. (LUNGS--DUST DISRASES) (GOLD MINES AND MINING--HYOINNIC ASPNCTS)

. . . . . . . . . . . . EL'INSHEL, L. STEPANOVA, V.; BL'YASHEV, L. Reports of supply organizations. Bukhg.uchet 15 no.10:25-27 0 (MLRA 9:11) 156. (Accounting) .

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CIA-RDP86-00513R00041211











EL'YASHNV, L.I., kand.med.nauk Late silicosis. Bor'ba a sil. 4:29-34 '59. (MIRA 12:11) 1. Institut gigiyeny truda i profaabolevaniy AMN SSSR. (LUNGS--DUST DISRASRS)

EL'YASHEV, L.I. (Berezovsk)

Pneumokoniosis in bauxite miners. Gig. truda i prof. zab. 4 no.4: 28-32 Ap 160. (MIRA 15:4)

1. Opytnaya protivosilikoznaya stantsiya. (MINING ENGINEERING-HYGIENIC ASPECTS) (LUNGS-DUST DISEASES)

CIA-RDP86-00513R00041211

RATYASHEY, L.I.

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X-ray observations of the results of collapse therapy in sili-tuberculosis. Bertha s sil. (:209-302 164 (MIRA 19:2)

1. Institut gigiyeny truda 1 professional nyah sabilevandy ANN SSSR 1 Institut profilaktiki prevnokoniszov.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-F

SOV/68-59-7-21/33

Starkov, I.D., El'yashev, M.I. and Kalita, Z.S. AUTHORS: A New Method of Denitration of Acid TTTTE: PERIODICAL: Koks i khimiya, 1959, Nr 7, pp 53-54 (USSR) ABSTRACT: A method of denitrating sulphuric acid before it is used for the production of ammonia sulphate is proposed. It consists of an addition to the acid of 0.1 - 0.3% of heavy benzole containing a considerable proportion of unsaturated compounds. The mixture is intensively stirred for one hour by blowing air. A complete denitration of the acid takes place. The method was tested under industrial conditions with satisfactory results. ASSOCIATION: Gorlovskiy koksokhimicheskiy zavod (Gorlovskiy Coking Works) Card 1/1

EL'YASHEVA, M. A. Cand. Tech. Sci.

Dissertation: "Investigation of a Hydraulic Pulsation Type Machine for Fatigue Testing." Moscow Order of the Labor Red Eanner Higher Technical School imeri N. E. Bauman, 26 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000

166772 USSE/Metals - Testing Equipment ELIYASHEVA, M. "Wire Tendometers for Measuring Plastic Deforma-tions," M. A. El'yasheva, V. P. Shchegolev Outlines possibility for measuring greater relative of considerable plastic deformations are those made "Zavod Lab" Vol XVI, No 7, pp 890-891 sults of experiments for using various materials deformations with wire tensometers. shown by gauges made of annealed constantan wire of nichrome and USSR/Metals - Testing Equipment (Contd) creased to 5-64. tions measured with wire tensometers may be inof 0.03 mm diameter. 1 Wires most suitable for determination annealed constantan. Concludes range of deforma-Discusses re-Best results E SO THE 166172 16617/2 50

APPROVED FOR RELEASE: Thursday, July 27, 2000

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EL YASHEVA M.A. ANTIPOV. K.F., inshener; BALAKSHIN, B.S., doktor tekhnicheskikh mask. professor: BARYLOV, G.I., inzhener: BEYZEL'MAN. R.D., inzbener: BERDICHEVSKIY, Ye.G., inzhener: BOBKOV, A.A., inzhener. KALININ, M.A., kandidat tekhnicheskikh nauk; KOVAN, V.M., doktor tekhnicheskikh nauk, professor; KORSAEOV, V.S., doktor tekhnicheskikh nauk; KOSILOVA, A.G., kandidat tekhnicheskikh nauk; KUDRYAVTSEV, N.T., doktor khimicheskikh nauk, professor; KURYSHEVA. Ye.S., inzhener; IAKHTIN, Yu.M., doktor tekhnicheskikh nauk, professor: NAYERMAN. M.S., inzhener; NOVIKOV, M.P., kandidat tekhnicheskikh nauk; PARIY-SKIY, M.S., inchener; PERSPONOV, M.N., inchener; POPILOV, L.Ye., inzhener: POPOV. V.A., kandidet tekhnicheskikh nauk; SAVERIN, M.H.. doktor tekhnicheskikh nauk, professor; SASOV, V.V., kendigt tekhnicheskikh nauk; SATEL', E.A., doktor tekhnicheskikh nauk, professor; SOKOLOVSKIY, A.P., doktor tekhnicheskikh nauk, professor [deceased]; STANKSVICH, V.G., inzhener; FRUMIR, Yu.L., inzhener; MHRAMOY, M.I., inzhener; TSEYTLIN, L.B., inzhener; SHUKHOV, Yu.V., keudidet tekhnicheskikh nauk; BABKIH, S.I., kandidat tekhnicheskikh meuk; VOLKOV, S.I., kandiat tekhnicheskikh nauk; GORODZTSKIY, I Ye.. doktor tekhnicheskikh nauk, professor; GOBOSHKIN, A.K., inchemer; DOSCHATOV, V.V., kendidat tekhnicheskikh nauk; ZAMALIN, V.S., inzhener; ISAYEV, A.I., doktor tekhnicheskikh nauk, professor; KEDROV, S.N., kandidet tekhnicheskikh neuk; MALOV, A.N., kendidet tekhnicheskikh nsuk; MARDANYAN, M.Ye., inzhener; PANCHENKO, K.P., bandidet tekhnicheskikh nauk; SEKRETEV, D.M., inshener; STAYEV, K.P., kardidat tekhnicheskikh neuk; SYROVATCHENKO, P.V., inzhener; TAUHIT, G.S., inzhener; SLYASHWYA M.A. kendidet tekhnicheskikh nauk; (Continued on pext card)

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ABTIPOV, K.F. --- (continued) Card P. GRANOVSZIY, G.L., redektor: DENTINGTIG, F.S., redering: Ubbs, 4.W., redaktor: CHARNKU, D.V., redaktor: andres. M.Fs., Sonts on, machiner [dogsaged]: SOKOIAVA, T.F., to solve of the reductor [Machine builder's manual] Spre. whethe terms the specificate distribute of a distribute of the second seco i dr. Hoskva, Gos.mauchno-tsc n. Pro-22 august and a litera. Vol. 1. (Pol red. A.G.Kosilavila 1961, togat, rel.). (Par red. red. (41 11:3) Malova) 1955. 584 p. (Medilierr Industry)

E	L' MAShevA, M.A. 135-5-7/14	
SUBJECT	U3SR/Welding.	χ.
AUTHORS	U3SR/Welding. Orlov, B.D., Candidate of Technical Sciences, Chuloshnikov, P.L., Engineer, and El'yasheva, M.A., Candidate of Technical	ž s P
	Sciences. Titanium	
TITLE :	"BT1 A". (Prochiose svarkoy).	
PERIODICAL	"Svarochnoye Proizvodstvo", 1957, # 5, pp 19-22 (0200)	
ABSTRACT	The investigation described had the purpose of steel properties of titanium "BTLA" with the properties of steel "1X18H9-H" for which titanium may be a replacement giving an "1X18H9-H" for which titanium may be a replacement giving an economy in weight. Both metals were tested under static load, economy in weight. Both metals were tested under static load, under cyclic fatigue load, and under pressure load. The tech- under cyclic fatigue neparation and of testing is given in detail.	
12	nology of specimen prophers have been made: The following conclusions have been made: 1. The static strength of spot-welded and roller welded joints of titanium "BTIA" is not below the static strength of those made of steel "IX18H9-H", despite the strength of the basic metal "BTIA" being 25% below the strength of the basic metal	
Card $1/2$		

SUBJĒUT:	USSR/Welding. 135-5-8/14
AUTHORS	El'yasheva, M.A., Candidate of Technical Sciences, and Tret'yakov, F.Ne., Candidate of Technical Sciences.
TITLE :	Strength of Titanium "BTLA " and Its Welded Joints at Different Temperatures. (Prochnost' titana BTLA i ego svarnykh soyedineniy pri razlichnykh temperaturakh).
PERIODICAL:	"Svarochnoye Proizvodstvo", 1957, # 5, pp 22-24 (USSR).
ABSTRACT: Card 1/3	The article gives data on the strength of technical titanium "BTLA" obtained in experiments with mechanical arc welding in argon, in hutt joints welded without melting electrodes, and in lap-spot joints. Sheet titanium of 1.4 mm thickness was taken as base metal containing 0.06 % C and 0.12% Al, traces of iron and silicon, 0.013 % H <sub>2</sub> , and 0.13 0 <sub>2</sub> . The technology of the test is given in detail. Recrystallization processes and the nature of failures at different temperatures were studied. A difference in the behaviour of weld metal and base metal was observed, as for instance; at temperatures above 100°C failures occur in the base metal only; with rising temperature (from 0° and higher) the strength of spot welds decreases in lesser degree than the

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I 135-5-8/14 Strength of Titanium "BTLA " and Its Welded Joints at Different Temperatures. (Prochnost' titans BTLA 1 ego svarnykh soyedineniy pri razlichnykh temperaturakh). strength of the base metal; with dropping temperatures (from  $0^{\circ}$ to -196°C) the strength of welds decreases, whereas the strength of base metal increases. In general, the results obtained demonstrated that the welds possessed a sufficiently high static strength as compared to the base metal at normal and at higher temperatures. The butt welds had the same static strength as the base metal. The spot welds had a lower strength at normal temperatures than the base metal. With rising temperatures this difference decreased, but at temperatures dropping below zero it increased and the strength of spot welds abruptly decreased in comparison with the base metal. The data obtained by L.N. Sokolov, V.P. Elyutin, and V.I. Yalesskiy ("Izvestiya Akademii Nauk SSSR" #3, 1954) are mentioned as being in accordance with the results of subject investigation.

The article contains 3 diagrams and 3 photographs (micro- and macro-structure).

Card 2/3

TITLE:

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,	TITLE:	Strength of Titanium "BTLA " and Its Weld Temperatures. (Prochnost' titana BTLA i dineniy pri razlichnykh temperaturakh).	135-5-8/14 ded Joints at Different ego svarnykh soye-	•		
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EL'YASH	EVA, M.A.	•
AUTHOR: TITLE:	EL'YASHEVA, M.A., POLITOVA, A.I. 32-6-32/54 The Automatic Arrangement of a Hydraulio Machine for Investigations with Repeated Static Stresses. (Avtomaticheskoye ustroystvo k gidravlicheskoy mashine diya ispytaniya povtorno-staticneskimi negruskami, Russian) Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 741-742 (U.S.S.R.)	
PERIODICAL:	For the purpose of investigating the static resistibility of materials hydraulic tensile testing machines (produced by the firm of Losenhausen as well as of the Russian type MUG) of 15 t each were used. They consist of a distributor box with 2 mancmeters (with adjustable contacts), a directioning device, a selemoid with lever transmission leading to the exhaust valve and a panel with the electric equipment. The box serves for the distribution of cil either to the mancmeter (in the case of investigations with repeated static stresses) or to the pendulum dynamometer (for static investigations). The distributor box together with the pendulum dynamometer is connected with the tube system leading to the cylinder. This system is used for measuring force. Stresses and loads are controlled by means of one of the two mancmeters, which are brought about automatically by means of two contacts	
<b>Card</b> 1/2		

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## CIA-RDP86-00513R00041211



MALOV, A.H., kand.tekhn.nauk; BABKIN, S.I., kand.tekhn.nauk; VOLKOV, S.I., kand.tekhn.nauk; GORODETSKIY, I.Ye., prof., doktor tekhn.nauk; GORODETSKIY, J.Ye., prof., doktor tekhn.nauk; ZAMALIN, V.S., inzh.; ISAYEV, A.I., prof., doktor tekhn.nauk; KEDROV, S.M., kand.tekhn.nauk; MARDANYAN, M.Ye., inzh.; PANCHENKO, K.P., kand. tekhn.nauk; SEKRETEV, L.M., inzh.; STAYEV, K.P., kand.tekhn.nauk; SYROVATCHENKO, P.V., inzh.; TAURIT, G.E., inzh.; KL'YASHEVA, M.A., kand.tekhn.nauk; KOYAN, V.M., prof., doktor tekhn.nauk, glavnyy red.; MARKUS, M.Ye., inzh., red. [deceased]; SOKOLOVA, T.F., tekhn.red.

[Manual for mechanical engineers; in two volumes] Spravochnik tekhnologa mashinostroitelia; v dvukh tomakh. Glav.red. V.M.Kovan. Chlenv red.soveta B.S.Balakshin i dr. Noskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.2. Pod red. A.N.Malova. 1959. 584 p. (MIRA 12:11)

(Mechanical engineering)

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25(1)	sov/135-59-3-11/2	4	•
AUTHOR:	El'yasheva, M.A., Candidate of Technical Sciences		
TITLE:	The Effect of the Spot Spacing on the Fatigue Strength of Spot Weld Joints (Vliyaniye shaga na ustalostnuyu prochnost tochechnykh soyedineniy)	8 - 1	
PERIODICAL:	Svarochnoye proizvodstvo, 1959, Nr 3, pp 22-23 (USSR)	a Alan Alan Alan	
ABSTRACT:	The results of an experimental investigation of the effect <b>spot.weld spacing in spot weld</b> joints are given. Con trary to the case of the static strength, the fatigue stren- limit of sheet metal in a spot weld joint decreases with an increasing space between the spot welds, and the loading upon one single spot increases. The fatigue strength of a spot weld joint as a whole decreases when the spot spacin- increases. There are 3 graphs and 1 table.	ngth n	
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8.7200	S/135/60/000/007/002/014 A006/A002	
AUTHORS:	Silin, L.L., Kuznetsov, V.A., Engineers, El'yasheva, M.A., Candidate of Technical Sciences	
TITLE:	The Strength of <u>Weld Joints in Aluminum Alloys</u> Produced by <u>Ultrasonic</u> <u>Welding</u> Process 70	
PERIODICAL:	Svarochnoye proizvodstvo, 1960, No. 7, pp. 5-8	
(AMg3M) and to (AMg3M) and 1 breaking test plates joined ' $Y3\Gamma$ -10" (UZ tool with a r of the tool p the transmiss	Information is given on results of investigations into the strength is produced by ultrasonic welding and subjected to static and vibration the effect of temperature. Specimens made of 0.8 mm thick "AMr 3M" 1.2 mm thick " $\Pi$ 16M" (D16M) alloys were subjected to shearing and is at 20, 100, 150, 200 and 250°C. The specimens consisted of two by overlap welding on a laboratory installation equipped with a GG-10) generator and a " $\Pi$ (M-7" (PSM-7) transformer. A conic steel removable spheric " $WX$ 15" (ShKh15) steel tip was used. The dimensions provided for a triple augmentation of the oscillation amplitude during and from the transformer to the work piece. The amplitude was measur- netless vibrometer. The welding time was controlled by the " $\Pi$ B-52"	×
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The Strength of Weld Joints in Aluminum Alloys Produced by Ultrasonic Welding Process

(PV-52) electric chronoscope. The frequency of oscillations remained constant during all the experiments; it was checked by a " $3\Gamma_{-11}$ " (ZG-11) sound generator and a " $3O_{-}$ " (EO-7) cathode oscillograph. Welding parameters are given in a table. Specimens for comparative tests were welded on a standard spot welding machine using the conventional technology. A comparison of results leads to the following conclusions: The static strength of joints in D16M and AMg3M alloys produced by ultrasonic welding and subjected to shearing and breaking tests at room and higher temperatures is not below the strength of joints obtained by resistance welding. A raise of the temperature to 150°C reduces the strength to  $2O_{-25\%}$ ; and to  $4O_{-}45\%$  at 250°C. The fatigue limit of overlap joints produced by ultrasonic welding is similar to that of analogous joints obtained by contact welding. Vibration strength of ultrasonic weld joints is extremely high and approaches that of the base metal. It is by 30% higher than the vibration strength of resistance-welded joints. In static tests the stability of strength of ultrasonic welds is lower than that of resistance weld joints. The dispersion

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S/135/60/000/007/0C2/014 A006/A002 The Strength of Weld Joints in Aluminum Alloys Froduced by Ultrasonic Welding Process of results obtained from vibration tests is practically similar for both cases. There are 5 figures and 5 references: 3 Soviet and 2 English. ASSOCIATION: Institut metallurgii imeni A.A. Baykova AN SSSR (Institute of Metallurgy imeni A.A. Baykov, AS USSR) Kuznetsov, V.A.; NIAT, El'yasheva, M.A.

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CIA-RDP86-00513R00041211

FRIDMAN, Yakov Borisovich; ZILOVA, Tat'yana Kirillovna; DEMINA, Nina Ivanovna; BOEYLEV, A.V., doktor tekhn. nauk, retsenzent; <u>EL'YASHEVA, M.A., kand. tekhn. nauk, red.; HUPAKOVA, O.N.,</u> red.; NOVIK, A.Ya., tekhn. red.

[Using the method of rolled-on gratings in investigating plastic deformation and breakdown] Izuchenie plasticheskoi deformatsii i razrusheniia metodom nakstannykh setok. Moskva, Gos. nauchno-tekhn. izd-vo Oborongiz, 1962. 187 p. (MIRA 15:4)

(Deformations (Mechanics)) (Plasticity)

APPROVED FOR RELEASE: Thursday, July 27, 2000

EL	YASHEVA, M.A.	75-92 45	
•	PHAUE I DOOK EXPLOITATION SOV/6025		
•	Soveshchaniye po ustalosti metallov. 2nd., Noscow, 1950.		
• •	Tsiklicheskaya prochnost' metallov; Eaterialy vtorego boveshchani; po ustalosti metallov, 24 - 27 maya 1960 g. (Cyclic Hetal Strength; Materials of the Second Conference on the Patigue of Metals, held May 24 - 27, 1960) Meacew, Ind-vo AN SSSH, 1962. 338 p. Errata slip inserted. 2000 copies printed.	78.	
: :	Resp. Ed.: I. A. Oding, Corresponding Member of the Academy of Sciences of the USSH; Ed. of Fubliching House: A. H. Chernov; Tech. Ed.: A. P. Guseva.		
	PURPOSE: This collection of articles is intended for scientific research workers and motallurgists.	· .	
	COVERAGE: The collection contains papers presented and discussed at the second conference on fatigue of metals, which was held at the Institute of Hetallurgy in day 1960. These papers deal with the nature of Tatigue fracture, the mechanism of formatic		
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Cyclic Metal Strength (Cont.))

### SOV/6025

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and growth of fatigue cracks, the role of plastic deformation in fatigue fracture, an accelerated method of determining fatigue strength, the plotting of fatigue diagrams, and various fatigue test methods. New data are presented on the sensitivity of high-strength steel to streng concentration, the effect of stress concentration on the criterion of fatigue failure, the effect of the size factor on the strength of metal under cyclic loads, and results of endurance tests of various machine parts. Problems connected with cyclic metal toughness, internal friction, and the effect of corrosion media and temperature on the fatigue strength of metals are also discussed. No personalities are mentioned. Each article is accompanied by references, mostly Soviet.

TABLE OF CONTENTS:

NATURE OF FATIGUE FRACTURE

Oding, I. A. Diffusionless Mechanism of Formation and Growth of Card 2/1

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Cyclic Metal Strength (Cont.) SOV/60	25	•		2 - 2 	
Zaytsev, G. Z. Accumulation of Plastic Strain Under Cyclic Loading	61			а 1	
Grigorovich, V. K. Fatigue Fracture in Relation to the Fibre Orientation in Steel Parts	73				•
Zaythev, A. M. Investigation of Laws Governing the Formation of Fatigue Fractures	82	,	1		
Kobrin, M. M., and <u>P. I. Sokolovskiy</u> . Special Features of Steel Fracture Under Cyclic Loads in Relation to Anisotropy of Its Structure	94				
FATIGUE TEST METHODS			a - 1	•	
Ivanova, V. S. and S. Ye Gurevich. Experimental Verification of the Accelerated Method for Determining Fatigue Strength	02 110				
Elyasheva, M. A. Investigating the Possibility of Applying the Accelerated Method for Determining the Fatigue Strength Card 4/9				1	
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		<b>8/137/62/000/012/</b> A006/A101	/051/085
AUTHOR:	El'yasheva, M. A.	,	
TITLE:	Investigating the possibility determining the fatigue limit conditions and different tech	y of using the high-speed method t under asymmetrical cyclic load nnical processings	l for ling
PERIODICAL:	Referativnyy zhurnal, Metallu 12I635 (In collection: "Tsil AN SSSR, 1962, 123 - 133)	urgiya, no. 12, 1962, 103, abstr klich. prochnost' metallov", Moz	act scow,
values for during chan other techn data presen processing	od proposed by V. S. Ivanova for the critical number of cycles, ges in the conditions of the su ical factors in symmetrical and ted are of a statistical nature of fatigue curves, obtained du	obtained in the checking of an or the purpose of determining $\sigma_{i}$ $N_{\rm Cr}$ , are given for different ma urface layer, the welding method d asymmetrical loading cycles. e and based on the systematization ring investigations of the effect , Mg and Ti-alloy specimens, all	aterials, and The ion and bt of
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Investigating the possibility of ... S/137/62/000/012/051/085 A006/A101 steels and other materials. The author shows the satisfactory agreement of Ner in the comparison of specimens subjected to different technical treatment (for the same material). N<sub>Cr</sub> values for alloys do not agree in particular cases, with the critical number of cycles for pure metals; this is explained by the . effect of alloying elements upon physical constants, such as specific heat capacity, melting point, and E. The asymmetry of the cycles under otherwise equal conditions, has no noticeable effect on the magnitude of N<sub>cr</sub>. It is concluded that the accelerated method of determining the cyclic strength is promising in the solution of various technical problems. However, its wide use is limited by the lack of checked fatigue criteria for the majority alloys, and because concrete data are not available on the limitations and the permissible application fields of the method (scale factor, test conditions, etc.). The author points to the necessity of continuing research in this direction by special investigations and the statistical processing of the experimental data available. L. Gordiyenko [Abstracter's note: Complete translation] Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000

		S/124/63/000/003/064/065 D234/D308
AUTHOR:	El'yasheva, M. A.	
TITLE:	different technologics	possibility of application of an determining the fatigue limit asymmetric fatigue cycle, with al treatments
	Referativnyy zhurnal, stract 3V507 (In collectallov, M., AN SSSR, 1	Mekhanika, no. 3, 1963, 71, ab- ection: Tsiklich. prochnost me-
The specime	ns had different states	ves of specimens made of alu- s and alloyed steels subject to metric and asymmetric cycles of the surface layer. The method factors were varied The method
nova (Trir	w ccop une accelerat	of the surface layer. The method factors were varied. The data ed method proposed by V. S. Iva- 1960, no. 1; Zavodskaya labora- - RZhMekh, 1951, 19501) on the
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Investigation of the ... S/124/63/000/003/064/065 D234/D308 basis of the hypothesis of energetic similarity of fatigue destruction and melting of metals. The values of the cyclical constant of destruction  $\alpha_0$  were taken from Ivanova's papers for pure metals corresponding to the bases of alloys used in the present paper. The critical number of cycles  $N_{\underline{k}}$  was determined from the experimental value of fatigue limit. It is shown that N<sub>k</sub> for the same metal or alloy depends little on the cycle asymmetry and the technology of preparation of the specimens. [Abstracter's note: Complete trans-lation.] Card 2/2 

VOLKOV, S.I., kand. tekhn. nauk [deceased]; GORODETSKIY, I.Ye., doktor tekhn. nauk, prof. [deceased]; GOROSHKIN, A.K., inzh.; DOSCHATOV, V.V., inzh.; ZAMALIN, V.S., inzh.; KEDROV, S.M., kand. tekhn. nauk; MALOV, A.N., kand. tekhn.nauk, prof.; MARDANYAN, M.Ye., inzh.; PANCHENKO, K.P., kand. tekhn. nauk; ROZHDESTVENSKIY, L.A., kand. tekhn. nauk; SEKRETEV, D.M., inzh.; SYROVATCHENKO, P.V., kand. tekhn. nauk; TAURIT, G.E., inzh.; <u>EL'YASHEVA, M.A.</u>, kand.
tekhn. nauk; YAKUSHEV, A.I., doktor tekhn.nauk, prof.; KOVAN, V.M., doktor tekhn.nauk, prof., red. [deceased]; SERGEYEV, V.M., inzh., red. izd-va; CHERNOVA, Z.I., tekha. red.; EL'KIND, V.D., tekhn. red.

> [Handbook for the mechanical engineer] Spravochnik tekhnologamashinostroitelia; v dvukh tomakh. Glav. red. W.M.Kovana. Moskva, Mashgiz. Vol.2. 1963. 912 p. (MIRA 16:7) (Machinery--Design and construction)

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ARKHANGEL'SKIY, N., BABAYEV, M., GLADXOV, M., EL'YASHEVICH, Z., KAMYSHKO, A.; KUZYATIN, G., KULIYEV, S., MOVSESOV, N., POPOV, A., PORTHOY, T., RIZNIK, A., SEROVA, Ye., TARASOV, A., TULIN, V., SHISHKIN. O., SHKOL'NIKOV, B., SHTURMAN, L., CHESNOKOV, V., EFENDIZADE, A. K.N.Kulizade, candidate of engineering. Energ. biul. no. 523-24

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APPROVED FOR RELEASE: Thursday, July 27, 2000



## 1 SOV/3-58-11-17/38 Netsenko, A.V., Candidate of Economic Sciences, and El'yash-AUTHOR3: ova, L.L., Assistant In This Way the Ability of Creative Thinking is Being Developed (Tak razvivayetsya umeniye tvorcheski mysliti) TITLE: Vestnik vyschey shkoly, 1958, Nr 11, pp 45 - 49 (USSR) PERIODICAL: The Chair of Political Economy of the Leningrad Polytechnical Institute is devoting much consideration to seminar ABSTRACT: exercises, particularly to the method in which they are conducted. The main purpose of a seminar is to arouse in youth love for science, inquisitiveness, ability to think independently and to understand the complicated phenomena of social life. For this reason, the Chair strives to ensure that the students comprehend well the material they are dealing with, that they know how to prove the correctness of the theses expressed, can reply to questions for which there are no ready answers in the textbook, apply the matter they have learned to events of international and domestic

life, etc. The authors then go on to explain how a seminar can be made creative. For this purpose they quote an ex-

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Fhyuk	im, S.B.		•
AUTHORS:	Gorelik, R. Ya., <u>Elyukim, S. B.</u> 119-1-10/13		
TITLE:	Piston Pressure Gauge With Automatic Load Shifts (Porshnevoy manometr s avtomaticheskoy smenoy gruzov).		
PERIODICAL:	Priborostroyeniye, 1958, Nr 1, pp. 29-29 (USSR)	.	
ABSTRACT:	The characteristic feature of this pressure gauge consists in a stepwise arranged headpiece which is rigidly connected to the piston. When moving upward the load is taken up stepwise. In the moment when the load on the piston does no longer touch the body of the pressure gauge a constant pressure establishes itself in the whole measuring system which is equal to the weight of the load plus piston divided by the effective surface on which the load is placed. At this moment the measurement is performed. Together with the piston pressure gauge there are connected 2 signal pressure gauges, 2 relays, 2 magnetic valves and a pressure equalizing reservoir, and they are on the one side connected with the compressed air distribution system and on the other side with a 220 V and 27 V system, This represents the total measurement system.		
Card 1/2	system.		

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211 Piston Pressure Gauge With Automatic Load Shifts 119-1-10/13 There are 2 figures. AVAILABLE: Library of Congress 1. Pressure gages-Operation Card 2/2

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	ACCESSION NR: AP5021863 UR/0280/65/000/004/0192/0194	
	AUTHOR: Mosevitskiv T c Attack All	
	TITLE: A problem of nonlinear programming	
	TUTLE: A problem of nonlinear programming SOURCE: AN SSSR. Izvestiya, Tekhnicheskaya kibernetika, no. 4, 1965, 192-194	
	TOPIC TAGS: nonlinear programming, algorithm, computer programming, nonlinear	
	ABSTRACT: Numerous technological objects may be described by a system of alge- braic or transcendental equations. In the majority of constants	
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	study and optudizing of a contrained of nonlinear equitions or for the	
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+	to a universal program of local analysis of nonlinear equations and inequalities	
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	on the M-20 computer. program has already be "The authors thank V. tion in the discussion Orig. art, has: 11 fo	A. Khodakov	Hod N N	tor the i	solution o	f numerou	is problems.	
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	L 45854-66 ACC NR: AP6020359 () SOURCE CODE: UR/0104/66/000/003/0083/0084 AUTHOR: Kholyan, A. M. (Engineer); Elyukim, S. B. (Engineer); Onuchin, V. Ya. (Engineer);
••••	Kravets, A. A. (En. )
	OBC: None
	TITLE: Application of computy : for designing cable recoverys
1.1	SOURCE: Elektricheskiye. st atell, no. 3, 1966, 85-84
	SOURCE: Elektricheskiye. strateii, no. 3, 1966, 83-84 TOPIC TACS: electric rugir aring, electric cable, electric network, electronic computer / N-20 electric computer
1.	ABSTRACT: Application / r electronic computers to wiring design and circuit calculations is discussed in connection with a paper published by the Ural Branch of the Teploelektro- proyekt Institute. The paper in question deals with design considerations and economics
	of wiring raceway systems used at electric power plants for auxiliary power circuits. An electronic computer of M-20 type was used by the Institute for circuit and conductor cal- culations on the basis of layouts providing information on cable raceways, cable crossings junctions, riser columns, interconnections, etc. Numbers were assigned to each raceway, column, connection and special tabular graphs were prepared. The mathematical aspect of calculations is discussed by the authors and some examples of using graphs are explained. Various versions for economical cable laying (shortest distance, cable weight) are briefly examined. The results obtained in cable raceway calculations include the cable length, panel number, consumer number and interconnection numbers.
	SUB CODE: 09/ SUBM DATE: None
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