122

KROTKOV, B.P.; ZOTOVA, T.I.

Regular patterns in the distibution of bauxite deposits in the Urals. Dokl. AN SSSr 108 no.6:1144-1147 Je '56. (HIRA 9:10)

1. Institut geologicheskikh nauk Akademii nauk SSSR. Predstavleno akademikom A.V. Betekhtinym. (Ural Mountains--Bauxite)

APPROVED FOR RELEASE: 06/14/2000

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MEKLER, M.M., otv.red.; SHUROV, S.I., red.; BASHLAVINA, G.N., red.; VORONINA, A.N., red.; GUREVICH, I.V., red.; ZASLAVSKIY, I.I., red.; KOZLOV, F.M., red.; LARIN, D.A., red.; LYALIKOV, N.I., red.; MAMAYEV, I.I., red.; NIKISHOV, M.I., red.; RAUSH, V.A., red.; SAHOTLOV, I.I., red.; SIAIKOVA, Ye.A., red.; STROYEV, K.F., red.; SCHAITNEV, P.N., red.; TUTOCHKINA, V.A., red.; STROYEV, K.F., red.; BUSHUYEVA, M.P., red.kort; DYUZHYVA, A.M., red.kart; KEOTKOV, B.S., red.kort; MESTATSEVA, L.N., red.kart; PEKHOVA, Z.P., red.kort; POLYANISK.YA, L.A., red.kort; SAFRONOVA, V.A., red.kart; FEOTOVA, N.I., red.kart; FETISOVA, N.P., red.kart; CHERNYSHEVA, L.N., red.kart; BUKHANOVA, N.I., tekhn.red.; KUZNETSOVA, O.L., tekhn.red.; NIKOLAYEVA, I.N., tekhn.red.
[Atlas of the U.S.S.R. for the secondary school; course in economic geography] Atlas SSSR dlin srednei shkoly; kurs ekonomicheskoi geografii. Mostva, Glav.uprav.geodez. i knrtografii M-va geol.i okhrany nedr SSSR, (Geography, Economic--Maps)

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Colline March 19

Novye standarty na metallicheskie polufabrikaty i izvelija. (Vestn. Mash., 1950, no. 6. p. 69-70)

New standards for metallic half-finished products and articles.

DLC: TH4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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Novye standarty. (Vestn. Mash., 1950, no. 10, p. 71-73)

New standards.

LLC: THL.VL

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



ROLEN, L. V.

Novyi standart na konstruktsionnulu kalibrovannulu stal'. (Vestn. Mash., 1951, no. 1, p. 36-28)

The new standard for gauged structural steel.

DLC: THL. 74

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

FRETRE , D. V.

MECTKEV, D. A.

Standards, Engineering

New standards. Vost. mash. 31, No. 11, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September 1952 1953, Uncl.

CEROV, D. V.	P1 7#1137
-	USSR/Electricity - Standards Mar 52 Transmission Lines Welding Electrodes
	"New Standards on Steel Parts for Electrical Instal- lations," Engr D. V. Krotkov
	"Elektrichestvo" No 3, pp 75-77
	Summarizes and discusses the following new standards: (1) GOST 5800-51, "Stranded Steel Conductors For Overhead Transmission Lines," replacing OST/NKTP 8173/1001; and (2) GOST 2523-51, "Steel Electrodes for Arc-Welding and Fusing," replacing GOST 2523-44.
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MICTROV, D. V., Eng.

KROTKOV, D. V., Eng.

Electric Welding

New standards for electric welding equipment. Avtog. delo, 23, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1988, Uncl.

MRCTRUT, D. V.

FRATKOV, D. V.

Railroads, Rails

Standards for light rails. Torf. prom., 29, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1952 1953, Uncl.

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1,	KROTKOV, D.V. ENG.	
2.	USSR (600)	
4.	Steel-Standards	
7.	New standards. Vest. mash. 32 no. 7 1952	
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9.	Monthly List of Russian Accessions, Library of Congress,	
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- KROTKOV, D. V., Eng. 1.
- USSR (600) 2.

HUZGLAD TAXING HARD

- 4. Steel--Specifications
- 7. Establishment of standard trade marks of carbon steel for important welded construction, Aviog. delo, 24, No. 2, 1953.

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

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1.	KFOIKOV, D. V., Eng.	· · · · · · · · · · · · ·	
2.	USSR 600	c.	
4.	Nickel Alloys - Standrds		
7.	Standards for nickel alloys and steel, Vest. mash, 33, No. 1, 1953.		
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9.	Monthly List of Russian Accessions, Library of Congress, April	1052 Unel	
7.	Monthly List of Mussian Accessions, Library of Congress,		
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		Pub. 123 - 33/38		
Authors		Krotkov, D. V.	• • •	
Title		New standards		
Periodical.	1	Vest. Mash. 9, 99-100, Sep 1954		
Abstract	1	The following new standard specifications for rolling stock (iven: (GOST 408-53) rolling stock shafts for wide-gage ra 3201-53) locomotive shafts for wide-gage rail; and (GOST 6 ing stock shafts made of carbon steel.		
Abstract Institution	·	(GOST A08-53) rolling stock shafts for wide-gage rail; and (GOST 6 3261-53) locomotive shafts for wide-gage rail; and (GOST 6		
	·	(GOST A08-53) rolling stock shafts for wide-gage rail; and (GOST 6 3261-53) locomotive shafts for wide-gage rail; and (GOST 6		
Institution	·	(GOST A08-53) rolling stock shafts for wide-gage rail; and (GOST 6 3261-53) locomotive shafts for wide-gage rail; and (GOST 6		
Institution	·	(GOST A08-53) rolling stock shafts for wide-gage rail; and (GOST 6 3261-53) locomotive shafts for wide-gage rail; and (GOST 6		

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Authors	1	Krotkov, D. V., Engineer	
Title	:	New standards	•
Periodicel	:	Vest. Mash., 34, Ed. 6, 104 - 105, June 1954	
Abstract	1	The following new standards are announced: GOST 4728-53 Axle Manufacturing for the Rolling Stock of Broad-Gage Rail- roads. GOST 2052-53 High-Quality, Hot-Rolled, Spring Steel. Technical Specifi- cations. Comments are given on the differences between the new standards and the old and the reasons for the changes.	
Institution	;	• • •	*
Submitted	:		
under Pres			







AVRASIN, Ya.D., kandidat tekhnicheskikh nauk; BERG, P.P., professor, doktor tekhnicheskikh nauk, BERNSHTEYN, M.L., kandidat tekhnicheskikh nauk; GENEROZOV, P.A., starshiy nauchnyy sotrudnik; GLINER, D.M., inshener; DAVIDOVSKAYA, Ye.A., kandidat tekhnicheskikh nauk; YELCHIH, P.M., inshener; YERMIN, N.I., kandidat fiziko-matematicheskikh nauk; IVANOV, D.P., kandidat tekhnicheskikh nauk "NOROZ, L.I., inzhener: KOBRIF, M.M., kandidat tekhnicheskikh nauk; KORITSKIY, V.G., dotsent; KROTKOV. D. V., inshener; KUDRYAVTSEV, I.V., professor, doktor tekhnicheskikh nauk; KULIKOV, I.V., kandidat tekhnicheskikh nauk; LEPETOV, V.A., kandidat tekhnicheskikh nauk; LIKINA, A.F., inthener; MATVEYEV, A.S., kandidat tekhnicheskikh nauk; MIL'MAN, B.S., kandidat tekhnicheskikh nauk; PAVLUSHKIN, N.M., kandidat tekhnicheskikh nauk; PTITSYN, V.I., inzhener [deceased]; RAKOVSKIY, V.S., kandidat tekhnicheskikh nauk, RAKHSHTADT, A.G., kandidat tekhnicheskikh nauk; BYABCHENKOV, A.V., professor, doktor khimicheskikh nauk; SIGOLAYEV, S.Ya., kandidat tekhnicheskikh nauk; SMIRYAGIN, A.P., kandidat tekhnicheskikh nauk, SUL'KIN, A.G., inshener; TUTOV, I.Ye., kandidat tekhnicheskikh nauk, KHRUSHCHOV, M.M., professor, doktor tekhnicheskikh nauk; TSYPIN, I.O., kandidat tekhnicheskikh nauk; SHAROV, N.Ya., inshener; SHERMAN, Ya.I., dotsent; SHMELEV, B.A., kandidat tekhnicheskikh nauk; YUGANOVA, S.A., kandidat fiziko-matematicheskikh nauk; SATEL', E.A., doktor tekhnicheskikh nauk, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor [Machine builder's reference book] Spravochnik mashinostroitelia; v shesti tomakh. izd-vo mashinostroit. lit-ry. Vol.6. (Glav. red.toma (MLRA 9:8)

E.A.Satel'. Izd. 2-oe, ispr. i dop.) 1956. 500 p.

(Machinery--Construction)

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L 7870-66 EWT(d)/FBD/EWT(1)/EEC(k)-2 RB/GW/JS-2 ACC IR: AP5026722 / SOURCE CODE: UR/0141/65/008/005/1 AUTHUR: Krotikov, V. D.; Lastochkin, V. P.; Stankevich, K. S.	602
(Nowhow issledowatel'skiy radiofizicheskiy institut pri Gor'kovskom unive	ersitete)
TITLE: Measurement of the absorption of decimeter radio waves in the atmo	osphere
50110/17. TV1/Z. Radiofizika. v. 8, no. 5, 1965, 1044	
TOPIN TAGS: radio astronomy, atmospheric radiation, radio wave absorption	
ABSTRACT: The vertical distribution of the temperature of the intrinsic of the atmosphere was measured at wavelengths 16.3, 18.9, 21, and 30.6 c altitude range from 5 to 30°. The directivity patterns of the antenna sy altitude range from 5 to 30°.	stem at s of the
half-power level were 24°, 30°, 35°, and 40°. The origination temperatures for sign atmosphere were determined by comparing the antenna temperatures for sign the atmosphere with the discrete source Cassiopacia-A. The total absorp at the zenith could be determined from the measured and theoretical value antenna temperature as a function of the altitude angle. The total absorp the zenith direction was found to be 0.66 db $\pm 15\%$ for all temperatures,	tion as of the ption in
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esuring Instruments Instruments instrum Sensivity of recuits," I. N. Krotkov, t of Metrol imeni bridge circuit and cal- ty to a relative change of the arms. Given a sauring Oct 51 Instruments (Contd) eents, determines the nec- conditions for obtaining mitted 30 Aug 50. 201747	KR(YI'KOV , 1	И.	number of bridge elem essary and sufficient max sensitivity. Sub	USSR/Electricity - Me	Considers a balanced bridge culates its sensitivity to a of resistance in one of the	"Elektrichestvo" No 10, pp 59-66	"Calculation of the P Electric Measuring Ci All-Union Sci Res Ins Mendeleyev	USSN Electricity - Ma
		2011 4 7		ZOII47 Measuring Oct 51 Instruments (Contd)	idge circuit and to a relative c the arms. Give	.0, pp 59-66		Oct

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VSSR/Electricity - Bridge Circuits Oct 52 "Classification of DC and AC Bridge Circuits," I. N. Krotkov, Cand Tech Sci, All-Union Sci Res Inst imeni Mendeleyev "Elekrichestvo" No 10, pp 60-67 Discusses some general facts on bridges composed of linear elements and used for the measurement of the elec circuit perameters (R, L, M, and C). Gives a new classification and system of symbols of these circuits which makes possible their analysis. Submitted 24 May 52. 231729

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San and the second s KROTKOV, I.N.; GUSHCHINA, T.M. Method for precise checking of condensers with different initial capacitunce ratings. Trudy inst. Kom. stand., mer i izm. prob. no.39:93-104. (MIRA 14:3) (Electric capacitors-Testing) 1 NI 19771 (1972)

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KROTKOV, I. N.

Doc Tech Sci - (diss) "New methods and apparatus for precision measurements of inductivity, resistance, and capacity." Lenin-grad, 1961. 27 pp with diagrams; (Leningrad Polytechnic Inst imeni M. I. Kalinin); 250 copies; free; bibliography at end of text (23 entries); (KL, 7-61 sup, 229)

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KROTKOV, I.N.

[New equipment and techniques for precise measurement of inductance, resistance, and capacitance; author's abstract of his dissertation for the degree of doctor of technical sciences]Novye metody i apparatura dlia tochnykh izmorenii induktivnosti, soprotivleniia i emkosti; avtoreferat dissertatsii na soiskanie uchenoi stepeni doktora tekhnicheskikh nauk. Leningrad, Leningradskii politekhnicheskii in-t im. M.I.Kali-nina, 1961. 26 p. (MIRA 15:12)

(Electric measurements)

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REARNOV, I.N.

- - ;4

Methods and Equipment for accurate measurements of paste intractoristics of dielectrics in rallob oadcasting frequency range. Izm.tekh.no. 4:54-59 Ap tt4. (MLR4 17:7)

APPROVED FOR RELEASE: 06/14/2000

 $E_{WP}(k)/S_{WT}(d)/E_{WP}(h)/T/E_{WP}(1)/S_{WP}(v)$ ACC NR AP6019570 AUTHOR: <u>Arutyunov, V. O.</u> (Doctor of technical sciences); Babskiy, Ye. V.; Dzharak'yan, T. K; Krotkov, I. N.; Tishchenko, M. I. BOURCE CODE: UR/0115/66/000/004/0003/0006 ORG: TITLE: Role and problems of metrology in biology and medicine SOURCE: Izmarital'nava takhnika, no. 4, 1966, 3-6 TOPIC TAGS; modical metrology, biological netrology, medical equipment standards, medical-instrumentation ر بلتي ما جي TOPIC TAGS: <u>monical</u> metrology, Diological networks, medical equipment standards, medical instrumentation standards, biological equipment standards, medical instrumentation JUE ABSTRACT: Particular need is felt for standardizing <u>medical equipment</u> Wand for the automatic control regulation of bion ABSTRACT; Particular need is felt for standardizing medical equipment used for the automatic control, registration, and regulation of bio-inverse in functions on wall as for designing artificial organs. The Used for the Automatic control, registration, and regulation of biological filterions, as well as for designing artificial organs. The in diagnosing treating and biological theorem. logical finctions, as well as for designing artificial organs. The importance of standard criteria in diagnosing, treating, and preventing measured with maximum importance of standard criteria in diagnosing, treating, and preven disease requires that physical parameters be measured with maximum for which is diretable to positive without untreaching maximum "Lugage requires that physical parameters be measured with maximum "Curkey Witch is difficult to achieve without universally accepted "and and "see of quantitatively evalue Sourcey Witch is difficult to achieve without universally accepted andards. The ever-expanding mass and use of quantitatively evaluated bored and processed data onlys for the development and establishment Linuaran, inc ever-expanding mass and use or quantitatively evaluated tored, and processed data calls for the development and establishment in avaitem of standard measurement units functionally valuated to units Dored, and Processed data CALLS for the development and establishment A System of standard measurement units functionally related to units abvaical and chemical measurement as vall as the consolidation of ^{A System} of standard measurement units functionally related to units physical and chemical measurement, as well as the consolidation of a :0, ød [SP] and built. Vis none/ SUBM DATE: SUBAPPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630010-5" Card 2/2 af



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AUTHORS :	S/196/63/000/001/034/035 E194/E155	•
TITLE:	Krotov, P.V., Boldov, M.Ye., and Shvionov, I.V. An investigation of silicon rectifiers	
PERIODICAL:	Referativnyy zhurnal, Elektrotekhnika i energetika, no.1, 1963, 11-12, abstract 1 L 46. (Tr. Tsentr. ni. in-ta mekhaniz. i energ. lesn. prom-sti, v.34, 1962, 53-69)	•
gauge electr silicon rect timber and p coupled weig rectifiers w manufacturin	In addition to their known advantages, silicon have good resistance to shock and vibration so that they have good resistance to shock and vibration so that they have good resistance to shock and vibration so that they have good resistance to shock and vibration so that they have good resistance to shock and vibration so that they have good resistance to shock and vibration so that they in the source of the source of the source of the have good resistance to shock and made a narrow- ifiers and meeting the requirements stipulated for the have good resistance of the source of the source of the have good resistance of the source of the source of the ere tested and recommendations were made to the factory in silicon rectifiers type $\{1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,$	
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MINEYEV, P.A., insh.; GUREVICH, Ye.S., insh.; SHINKA, V.Ya., insh.; BUKHTER, Ye.Z., insh.; SHCHERBAROV, V.S., insh.; IL'INA, N.I., insh.; GLUKHOV, V.V., insh.; GOGOLINA, T.V., imsh.; KAOTKOV, V.M., imsh.; STASHIN, Ye.A., imsh.; KUSHTER, A.P., Insh.; TEPMAKOVA, P.L., insh.; PAULOV, R.V., insh., red.; KASPEROVICH, N.S., Kaidisd-va; UVAROVA, A., tekhn. red. [Catalog of refrigeration equipment] Katalog kholodil'mogo oborudovaniia. Moskva, Mashgis, 1963. 186 p. (MIRA 16:7) 1. Russia (1923- U.S.S.R.) TSentral'moye konstruktorskoye byuro kholodil'mogo mashinostoryeniya.2. TSentral'noye konstruktorskoye byuro kholodil'mogo mashinostifyreniya (for all except Kasperovich, Uvarova). (Refrigeration and refrigeratimg machimery--Catalogs)

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SIELINSKIT, G.I., kand.ped.nauk(Leningrad); KNOTKOV, V.V.; PLETHER, fu.V.
Useful, but poorly written book ("Chemistry made interesting" by I.I.Znikovskii. Reviewed by G.I.Shelinskii, V.V.Krotkov, IU.V.Plotner). Khim.v shkole 14 no.5:84-87 S-0 '59. (MIRA 12:12)
1. Mariyskiy pedagogicheskiy institut, g.Toshkar-Ola (for Krotkov). 2. Kalininskiy pedagogicheskiy institut (for Pletner).
(Chemistry--Study and teaching) (Zaikovskii, I.I.)

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Abs Jour	man and Animal Physiology. Nervous System. T-10 : Rof Zhur - Biologiya, No 1, 1959, No. 3874
Author Inst Titlo	: Kurilov, N. V.; Krotkova, A. P. : Moscow Institute of Veterinary Modicine : Conditioned Gastric Secretion Reflex in Horses
Orig Pub	: Tr. Mosk. vet. akad., 1957, 20, 150-154
Abstract	: In 2 foals, an increase in gastric secretion was observed at the usual time of feeding (time reflex) in response to a mechanical distontion of the stomach walls (intro- duction of 1.5 l of air) and as the result of showing food to hungry animals (manipulations connected with pre- paration for feeding). According to the author, the contradictory data in literature with respect to the presence of a conditioned gastric secretion reflex in horses should be attributed to errors in the methods of investigation K. S. Ratner
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7. Dearerating feed water with increased pressure. Izv. VTI 21 no. 11, 1952. Monthly List <u>If Russian Accessions</u> , Library of Congress, <u>February</u> 1953, Unclassified.	- • •		•
7. Dearerating feed water with increased pressure. Izv. VTI 21 no. 11, 1952. Monthly List <u>If Russian Accessions</u> , Library of Congress, <u>February</u> 1953, Unclassified.	4. Ford 1	Water Purification	
Monthly List of Russian Accessions, Library of Congress, Pebruary 1953. Unclassified.	7. Dearer	rating feed water with increased pressure. Izv. VTI 21 no. 11, 1952.	- -
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ORG: First Leningrad Medical Inst institut) TITLE: The immunological reactivit pressure in a pressure chamber		CODE: UR/0016/66/000	1000 100	
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TUPIC TAGS: mouse, immunology	mmunobiol, no o	scaphylo	COCCUR	e
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AESTRACT: The resistance of mice to studiec under conditions of decreased pure antigen). Infection took place	Vpoxia, starbur			1 '
Studiec under constance of min	Spheric production	occus, typhata		i
The animals you of down	typhoid boat	infective in bact	rial	
Dure antigen) vaccinated with	atmosuboni	and stanhall disease		1
studied under conditions of mice to studied under conditions of decreased The animals were vaccinated with a ch parameters were: "altitude"-4000 m (ions; the viability of typhoid a	emical the pres	sure in .	36	1.
as found that "altitude", place of	on the 10 moid mo	novaccine pressure cl		
ions; the sistance to 4000 m (75 m/se 10-12th d	ay after (0.3 ml; 30	comper.	
tout Vianijito	TOUCH TOW TO	Vool Vool	PE OT	
1.99 timpectively). The was 2.22 tim	neg bi, was 1.99	time-	ec. It	1
that of the postvaccinat	dominisher than th	at migher, while	e condi-	
altitude"-4000 m (ions; the viability of typhoid a taphylococcus-infected mice was 2.22 tin 1.99 times that of the control group	(t immunity ind	er (and control grow	nat or	
taphylococcus-infected mice was 2.22 times that of the control group 1.59 times that of the control group UDC: 616	4.1). To t	ent anti-typhoid)	/ ⁽ [™] = 3.1	
taphylococcus-infected mice was 2.22 tin 5.5, respectively). The postvaccinat 1.59 times that of the control group 1/2 UDC: 616	927+616.081	the effects or o	reased	
		-27.3-092 0 001 02	partial	· [

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ACC NR: AP7004719 pressure on this phenomenon, 16 mice were placed in a ten-liter jar, through which humidified O_2 was circulated at 0.4 liters/min for 15 min. Unvaccinated mice received O₂ only after infection, while vaccinated mice were exposed after vaccination and infection. Oxygen saturation took place prior to "ascent." This series showed that curing 02 inhalation, the resistance of the animals increased by 2.00-2.03 (t = 6.0 - 8.9). Postvaccination typhoid immunity was 1.99 times greater than that of the control group. The data showed that the immunological reactivity of mice increased during decreased atmospheric pressure as well as during increased oxygen saturation. However, exposure to oxygen prior to "ascent" apparently eliminated the favorable effect of decreased atmospheric pressure on the immunological condition SUB CODE: 06/ SUBM DATE: 17Jan66 [WA-22] Card 2/2

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Fr. Fr. - - F BYELOZOROV, S.T.; KROTKOVA, O.O., redaktor; KALASHNIKOVA, O.G., tekhnichniy redaktor ホモビガ [Askaniya-Nova; a manual for leaders of school excursions] Askaniia-Nova; posibnyk dlia kerivnykiv shkil'nykh ekskursii. Kyiv, Dersh.uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1956. (Askaniya-Nova--Zoological gardens) (MIRA 10:6) . . . STREET, STREET,

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KROTKOV', YE. YE.
Krotkova, Ye. Ye. "Investigation of the tendency of steel to aging following deformation." Min Higher Education USSR. Moscow Order of Lenin and Order of Labor Red Banner Higher Technical School iment Baucan. Moscow, 1950. (Dissertation for the Degree of Candidate in Technical Science)
So: Knizhneya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

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KROTKOVI,YE. Category : USSR/Solid State Physics - Phase Transformation in Solid Bodies E-5 Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3853 Author : Krotkova Ye Ye., Pogodina-Alekseyeva, K.M. Title : On a Procedure for Testing Carbon Structural Steel for Tendency to Deformation Aging Orig Rub : Termicheskaya obrabotka metallov (MVTU, 70). M., Mashgiz, 1956, 64-76 Abstract : The conditions under which the tendency of carbon structural steel to deformation aging manifests itself most clearly are explained. These conditions are brought about by the following combination of treatments: 1) cutting specimens from the head portion of the ingot along the rolling length in a direction perpendicular to the direction of the rolling; 2) prior compression of the specimens by 10%; 3) artificial aging at 250° for 1 hour and 4) testing for impact at the temperature of the upper threshold of cold-brittleness of the steel. The authors deem it advisable to use the ratio of impact viscosity before and after aging as a measure of brittleness produced by the aging. Card : 1/1

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AUTHORS:	from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 219 (USSR) Pogodina-Alekseyeva, K. M., Krotkova, Ye. Ye.
TITLE:	The Effect of Actual Grain Size on Processes of Aging in MST.3 Structural Steel (Vliyaniye velichiny deystvitel'nogo zerna na stareniye stroitel'noy stali MSt.3)
PERIODICA	L: V sb.: Term. obrabotka i prochnosť metallov i splavov. Moscow, Mashgiz, 1958, pp 5-18
ABSTRACT:	The hardness and the a _k (resilience) of killed open-hearth MSt.3 steel of standard composition were investigated after the steel had been subjected to various forms of treatment while in a state of pre- liminary overheating (normalization at 1350°C for a period of 7 min), as well as after normalization at 920° which was carried out in order to obtain different grain sizes. It was established that overheating reduces the quantity of work required to fracture a specimen in an impact test to a value of 19 kgm, the difference in properties of over- heated and normal steel remaining practically unaffected by various forms of heat treatment. Although, unlike fine-grained steel, the coarse-grained steel is less susceptible to brittleness resulting from

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The Effect of Actual Grain Size on Processes of Aging (cont.) tempering, work hardening, and thermal aging, its mechanical properties are affected by strain aging to a greater degree. However, the displacement of the upper threshold of cold shortness is identical in both cases. The effects of stra SOV/137-58-11-21378 upper threshold of cold shortness is identical in both cases. The effects of strain aging are connected with processes of cold hardening: As the ductility diminishes during cold working, the tendency toward brittleness during subsequent aging M. G. Card 2/2

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Moscow. Moskovskoye vyssheye tekhnicheskoye uchilishche. Kafedra "Termicheskaya obrabotka metalloy"
Termicheskaya obrabotka i prochnost' metallov i splavov; sbornik statey (Heat Treatment and Strength of Metals and Alloys; Collection of Articles) Moscow, Mushgiz, 1958. 177 p. 5,500 copies printed.
Ed. (title page): Pogodin-Alekseyev, G.I., Doctor of Technical Sciences, Professor; Ed. (inside book): Yegorkina, L.I.; Tech. Ed.: Tikhanov, A.Ya.
PURPOSE: This book is intended for engineers and technicians in the machine- building industry, scientific workers at research institutes and industrial laboratories, and for students taking advanced courses at higher technical institutes.
COVERAGE: This collection of articles is devoted to problems of mechanization and automation of heat-treating processes and to investigations of the mechan- ical properties of metals and alloys as affected by their composition and by heat-treatment conditions. The experimental work was done by researchers at the Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana (Moscow High-
Card 1/12 Moscow High-
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630010- Heat Treatment and Strength of Metals and Alloys (Cont.) 650
Heat Treatment and Strength of Metals and Alloys (Cont.) 650 er Technical Institute imeni Bauman), the Vsesoyuznyy zaochnyy politekhnich- eskiy institut (All-Union Correspondence Polytechnic Institute), The L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute), and the Stalingrad-
er Technical Institute imeni Bauman), the Vsesoyuznyy zaochnyy politekhnich
 Heat Treatment and Strength of Metals and Alloys (Cont.) 650 er Technical Institute imeni Bauman), the Vsesoyuznyy zaochnyy politekhnich- eskiy institut (All-Union Correspondence Polytechnic Institute), The L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute), and the Stalingrad- akiy mekhanicheskiy institut (Stalingrad Mechanical Institute). For references TABLE OF CONTENTS: Pogodina-Alekseyeva, K.M., Candidate of Technical Sciences, Docent: Krotkown Ye.Ye., Candidate of Technical Sciences, Docent: Krotkown
Heat Treatment and Strength of Metals and Alloys (Cont.) 650 er Technical Institute imeni Bauman), the Vsesoyuznyy zaochnyy politekhnich- eskiy institut (All-Union Correspondence Polytechnic Institute), The L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute), and the Stalingrad- skiy mekhanicheskiy institut (Stalingrad Mechanical Institute). For references and further coverage, see Table of Contents. TABLE OF CONTENTS:



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Heat Treatment and Strength of Metals and Alloys (Cont.) 650

Kuznetsov, I.V., Engineer. Mechanization and Automation of Heat-treating Processes at 1 GPZ (Pervyy Gosudarstvennyy podshipnikovyy zavod: First State Bearing Plant)

According to Kuznetsov, the output of bearings greatly increased at the plant after World War II, both in actual volume and in number of types. As a result, a special office was created at the plant for designing and putting into operation more modern, efficient heat-treating equipment. Such new equipment, now in operation at the plant, includes electric hardening furnaces with vibrating floors; conveyer-type electric and gas furnaces; rotary gas and electric furnaces; shaft-type electric furnaces for carburizing, hardening, and tempering of large-sized parts; conveyer-type electric tempering furnaces; pusher-type annealing furnaces; and high- and low-temperature electric muffle furnaces. The new equipment has made possible the complete automation of heat-treating processes. Various problems of further improving heat-treating equipment are discussed.

Sidunova, O.I., Candidate of Technical Sciences. Effect of the Diameter of Tensile-test Specimens on the Mechanical Properties of [Aluminum] Alloy AL4 in Ordinary and Isothermal Heat Treating

It is shown that as the diameter of the specimens is increased, the tensile Card 5/12 strength and elongation decrease, both with ordinary and isothermal heat

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 Heat Treatment and Strength of Metals and Alloys (Cont.) 650 treating. This seeming contradiction is explained by a favorable interaction between the cooling rate and thermal stresses in the case of the small-diameter specimens. There are 2 references, both Soviet. Pogodin-Alekseyev, G.I., Doctor of Technical Sciences, Professor; Vasil'yeva, A,G Candidate of Technical Sciences. Strength and Plasticity of Steel in the Recrystallization Temperature Range The authors describe anomalous changes in strength and plasticity which occur during the recrystallization temperature range. There are 9 references, of which 8 are Soviet and 1 is German. Rakhshtadt, A.G., Candidate of Technical Sciences, Docent; Shur, D.M., Engineer. Properties and Heat Treatment of the strength of the stren	
 small-diameter specimens. There are 2 references, both Soviet. Pogodin-Alekseyev, G.I., Doctor of Technical Sciences, Professor; Vasil'yeva, A,G Candidate of Technical Sciences. Strength and Plasticity of Steel in the Recrystallization Temperature Range The authors describe anomalous changes in strength and plasticity which occur during the recrystallization temperature range. There are 9 references, of which 8 are Soviet and 1 is German. Rakhshtadt, A.G., Candidate of Technical Sciences 2 and 1 Sciences 2. 	
Recrystallization Temperature Range The authors describe anomalous changes in strength and plasticity which occur during the recrystallization temperature range. There are 9 refer- ences, of which 8 are Soviet and 1 is German. Rakhshtadt. A.G., Candidate of Technical Sciences 2	-
Rakhshtadt. A.G., Candidate of Thebnical Seterate Destroyed	53
A highly sensitive method was developed and a device designed for testing the properties of metal displacement of and a device designed for testing	65
were made of beryllium bronze, phosphor bronze, and a high-alloy steel (N36KhTYu) containing nickel, chrome, titanium, and aluminum. Tests made on the diaphragms after heat treatment showed that their properties depend strongly on the temperature and length of aging, during which a decompos- ition of solid solutions takes place. Aging the manual treatment which a decompos-	
elastic limit up to a certain maximum, whose position in time depends on Eard 6/12	

Heat Treatment and Strength of Metals and Alloys (Cont.) 650

the temperature of aging. Hysteresis, residual deformations, and sag are at their minimum approximately at those temperatures at which the properties associated with strength are most pronounced. Thus it is seen that these properties of the diaphragms are linked with the structure of the alloys: the higher the resistance to the development of microplastic deformations, the smaller the degree of hysteresis. On the basis of these findings, certain methods of heat treatment are recommended for diaphragms made of the alloys specified above. There are 43 references, of which 25 are Soviet, 17 English, and 1 is French.

Pogodin-Alekseyev, G.I., Doctor of Technical Sciences, Professor; Fetisova, M.M., Cancidate of Technical Sciences. Change in Microstructure, Type of Fracture, Hardness, and Coercive Force of Steel in the Blue-brittle State 115

The authors' investigations led to the following conclusions: 1. The change in the type of fracture of the specimens corresponds to the change in toughness and plasticity in the blue-brittle temperature range. At testing temperatures of 100-400°C., the fracture changes from coarsely 'ibrous to finely fibrous. At 400° crystalline zones appear. At 525-550° the crystalline zones achieve their maximum extent, and the plane of fracture becomes "stepped", as if laminated. At higher temperatures, the fracture again becomes fibrous. 2. A microscopic study of crack distribution showed that at 525-550° the fracture ordinarily takes place along the grain boundaries, but in tough specimens it is usually transcrystalline. No substant-

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ial difference in the structure of tough and brittle specimens was observed at magnifications of up to 1700 times. 3. The hardness of specimens that were impact-tested at blue-brittle temperatures and cooled to room temperature was rather high as compared with specimens tested at lower temperatures. This indicates a certain residual brittleness caused by the impact test in the 500-550° range. 4. Measurement of the coercive force of brittle and tough specimens showed no numerical difference for specimens retaining some brittleness after being heated in the blue-brittle range. Hence it is seen that the development of blue brittleness is not accompanied by a decomposition of solid solutions. 5. On the basis of the above, it would appear that the marked lowering of plasticity caused by blue brittleness is associated with a deformation process or with diffusion processes developing at elevated temperatures in the boundary layers of the grains, which processes, however, do not lead to the precipitation of dissolved constituents, but do cause embrittlement of the grain boundaries. There are 3 references, all Soviet.

Arkhipov, A.M., Candidate of Technical Sciences. Heat Treatment for Improving the Properties of Cast Iron Teemed in Metal Molds

Author's conclusions: 1. Temper hardening is necessary for obtaining a uniform structure along the cross section of the specimen, for increasing hardness and wear resistance, and for improving the mechanical properties of the cast iron. 2. Quenching results in an increase in hardness and a

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decrease in strength. 3. Tempering at a temperature of 350-450°C. results in a uniform structure, decreased internal stresses, and miximum possible tensile strength, together with reduced hardness. 4. Quenching of cast iron teemed in metal molds is more effective than quenching of ordinary gray iron, since in the former case the graphite inclusions, strongly affecting the mechanical properties, differ greatly in shape, size, and distribution from those in ordinary gray iron. There are 5 references, all Soviet.

Arkhipov, A.M., Candidate of Technical Sciences. Effect of Silicon Content on the Mechanical Properties of Cast Iron Teemed in Metal Molds 139 The author's investigation shows that the graphitizing action of silicon in cast iron is at its maximum when the silicon content is about 3 percent. Five heats of gray iron were studied, the specimens differing only in their silicon content (1.41%, 1.63%, 1.84%, 2.16%, and 2.37%)and in the method of casting (in permanent metal molds and in loam molds). Results showed that both tensile strength and hardness decreased as the silicon content increased, regardless of the type of mold, but that the tensile strength of the specimens cast in metal molds exceeded that of those cast in loam molds by about 1.5 percent. A linear relationship between tensile strength and silicon content was established, and an empirical formula derived for calculating the tensile strength of a specimen of known silicon content. It was established that the chilled surface

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Heat Treatment and Strength o:	f Metals and Alloys (Cont.) 650
or such castings, while the	permanent molds is much harder than the core ere is much less difference in the hardness of of castings made in loam molds. There are
in an Ultrasonic Field The authors studied the eff metal cooling in the mold. lead-antimony alloy, a zinc 180 kc/sec were employed. was produced; in the second macrostructure or the micro dendritic macrostructure re	er; Pogodin-Aleksevev, G.I., Doctor of Tech- operimental Device for Crystallizing Alloys fects of ultrasonic vibrations on molten Three cases were investigated, namely, a e-tin alloy, and pure zinc. Vibrations of In the first case a refined grain structure 1, little effect was observed on either the ostructure; and in the third case a non- sulted, in contrast to the dendritic macro- metal. There are 8 references, of which 7
Rakhshtadt, A.G., Candidate of Engineer. A Method of Determi tions	Technical Sciences, Docent; Kremnev, L.S., ning Energy Dissipation in Elastic Vibra-
A new method is proposed fo the vibrations of a specime Card 10/12	157 r determining the energy dissipation in n fixed at one end in a test stand designed

Heat Treatment and Strength of Metals and Alloys (Cont.) 650

by S.O. Tsobkallo. The method is based on the determination of the path of motion of the specimen. The authors obtain equations that give the relationship between the elastic energy stored in the specimen, the amplitude of vibrations, the amount of energy dissipated, and the damping factor. The equations further account for the magnitude of working stresses imposed on the specimens and also determine energy dissipation per cycle, which is not obtainable ordinarily with the damping factor alone. These considerations, when applied to N36KhTYu steel, show that dissipated energy per cycle as a function of stress loading rises with increased stress, which is explained as the effect of microplastic deformation. At the same time, the higher the resistance of the metal to small plastic deformations, i.e., the higher the elastic limit, the smaller the dissipation increment. In particular, minimum values for the dissipation increment and its rate of increase are observed in specimens tested after hardening from a temperature of 950°C. and aging at 700° for 2 hours, when their elastic limit is at its maximum. There are 3 references, all

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