SOV/21-59-5/26

On the Effect of the Pre-heating Temperature on the Residual $\rm S_tresses$ of the First and Second Kinds and the Fatigue Strength of Rolled Steel.

AUSOCIATION: Institut mashinovedeniya i avtomatiki AN UkrSSR (Institute of Mechanical Engineering and Automation of the AS UkrSSR)

PRESENTED September 26, 1958, by F.P. Belyankin, Member of the AS UkrSSR

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APPROVED FOR RELEASE: 08/31/2001

88689 S/137/61/000/001/033/043 18 1100 A006/A001 Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No. 1, pp. 36 - 37, # 1Zh277 AUTHORS: Yatsyuk, A.I., Shved, M.M. The Effect of Heating on Residual Stresses and Endurance Strength TITLE: of Rolled Steel "Nauchn. zap. In-ta mashinoved. i avtomat. AN USSR", 1960, Vol. 7, PERIODICAL: pp. 106 - 109 íX The authors investigated 45 grade steel. Residual stresses of the TEXT: I and II order were determined by X-ray analysis. It was established that residual stresses of the I and II order increased with higher temperatures of preheating the rolled specimens, raised up to 300°C. Further elevation of preheating temperature causes a decrease of the aforementioned values and at $> 550^{\circ}$ C residual stresses are eliminated. $\mathcal{O}_{\mathcal{U}}$ depends in the same way on the preheating temperature, the effect of rolling vanishes at > 550°C. It is assumed that the increase of residual compression stresses of the I order with higher preheating tem-Card 1/2

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S/137/61/000/001/033/043 A006/A001

The Effect of Heating on Residual Stresses and Endurance Strength of Rolled Steel

peratures can be explained by an increase in the volume of the plastically deformed metal zone. With higher preheating temperatures (up to 300° C) distortions in the cold hardened metal layere are developed which cause an increase of residual stresses of the II order. There are 5 references.

Z. F.

Translator's note: This is the full translation of the original Russian abstract.

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\$/813/62/000/001/007/008 X-ray method E193/E383 where Δa_{σ} is the change in the lattice parameter in the direction normal to the specimen surface caused by the residual stresses of the first type, a_{ψ} is the lattice parameter calculated from the pattern obtained at an angle γ , lattice parameter calculated from the pattern obtained by the a₁ is the right-angle and \rightarrow is the Poisson ratio. The variation in the true lattice parameter is then given by: $2\sqrt{(a_{\psi} - a_{\perp})}$ $\Delta a_N = a_1 - a_{1+} + \frac{-v_1}{-v_1}$ () + 1) $\sin^2\psi$ (9) where a_{H} is the lattice parameter of the metal in the initial state. When X-ray analysis is used to study the effect of the ambient media on a metal, the following cases are possible: 1. $a_{1,1} - a \neq 0$; $a_1 - a_2 \neq 0$; $a_2 - a_2 \neq 0$; $a_1 - a_2 \neq 0$; $a_2 - a_2 \neq 0$; $a_1 - a_2 \neq 0$; $a_2 - a_2 \neq 0$; $a_3 - a_4 \neq 0$; $a_4 - a_4 \neq 0$; $a_1 - a_2 \neq 0$; $a_2 - a_3 \neq 0$; $a_3 - a_4 \neq 0$; $a_4 = a_4 \neq 0$; $a_4 \neq 0$ $a_{ij} - a_{j} \neq 0; a_{j} - a_{ij} \neq 0; a_{j} - a_{ij} \neq 0;$ In this case, the external medium diffuses to a certain depth,

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s/813/62/000/001/007/008 X-ray method E193/E383 changing the lattice parameter of the surface layer of the metal and giving rise to residual stresses of the first type; $a_{\mu} - a_{\perp} \neq 0; \quad a_{\perp} - a_{\mu} \neq 0; \quad a_{\perp} - a_{\mu} = 2 v (\mathbf{a}_{\psi} - \mathbf{a}_{\perp})$ $(v + 1) \sin^2 \psi$ The external medium diffuses to a certain depth, increasing the volume of the surface layer and setting up residual stresses of the first type but is not dissolved in the metal; 3. $a_{\parallel} - a_{\perp} = 0; \quad a_{\perp} - a_{\parallel} \neq 0$ In this case the external medium has diffused throughout the specimen studied, changing the lattice parameter in the entire 4. $a_{\mu} - a_{\perp} = 0; \quad a_{\perp} - a_{\mu} = 0.$ No diffusion of the external medium has taken place. SUBMITTED: June 26, 1961 Card 4/4

APPROVED FOR RELEASE: 08/31/2001

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107600	h2180 s/813/62/000/001/008/008 E073/E135	and the second
AUTHOR: TITLE: SOURCE: TEXT: of metal with hydr surface o	Shved, M.M. On the formation of residual stresses of the first Nind and changes in the crystal lattice produced by electrolytic hydrogen-saturation of steel Akademiya nauk Ukrayins'koyi RSR. Instytut Akademiya nauk Ukrayins'koyi RSR. Instytut mashynoznavstva i avtomatyky, L'viv. Voprosy mekhaniki mashynoznavstva i avtomatyky, L'viv. Voprosy mekhaniki real'nogo tverdogo tela. no.l. Kiev, 1962. 140-142. To elucidate the phenomena taking place in the layer adjacent to the surface as a result of its saturation adjacent to the surface as a result of its saturation for a X-ray method was used to investigate the for 2 hours), electrolytically-polished and saturated for 2 hours), electrolytically-polished and saturated for 2 hours), electrolytically-polished and saturated for 2 hours) aqueous solution of H2SO4, using a current ogen in a 26% aqueous durations. The lattice constants	H
at 700 C with hydr density C	for 2 hours), electrolytically of H ₂ SO4, using a current for 2 hours), electrolytically of H ₂ SO4, using a current ogen in a 26% aqueous solution of H ₂ SO4, using a current of 5 A/dm ² for various durations. The lattice constants of 5 A/dm ² for various durations. The lattice constants of 5 A/dm ² for various durations were measured at angles of a for hydrogen-saturation were measured at angles of a for hydrogen-saturation. The calculations were made by applying iron radiation. The calculations were made by applying iron radiation. $\Theta = 75^{\circ} 42^{\circ}$. line (310) K _{β1,3}	
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SHVED, M.M.

Measuring lattice parameters and residual stresses of the first order by means of X rays. Fiz.met.i metalloved. 13 no.l:146-148 Ja 162. (MIRA 15:3)

 Institut mashinovedeniya i avtomatiki AN USSR. (Crystal lattices) (Strains and stresses) (X rays--Diffraction)

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SHVED, M.M.

Gray diffraction method for studying the mechanism of the effect of external media on metals. Vop. mekh. real'. tver. tela no.1: (MIRA 16:1) 136-139 '62. (X-ray crystallography) (Dislocations in metals)

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SHVED, M.M.

Residual first-order stresses and variations in the lattice constant in steel due to electrolytic hydrogen absorption. Vop. mekh. real'. tver. tela no.1:140-142 '62. (MIRA 16:1) (Strains and stresses) (Steel--Hydrogen content) (Crystal lattices)

APPROVED FOR RELEASE: 08/31/2001

SHVED, M.M.

PARTICI 2

Measuring lattice parameter and residual stresses in semicrystals in the presence in them of solid solutions and unsymmetrical stressed state by plane. Vop. mekh. real. tver. tela no.::20-127 464.

Determining the E and \checkmark elastic constants by means of X-rays. Ibid.:128-135

Using the X-ray diffraction method for determining residual stresses of the first kind in case of a stressed state by volume. Ibid.:136-141 (MIRA 17:11)

APPROVED FOR RELEASE: 08/31/2001



APPROVED FOR RELEASE: 08/31/2001

ACC NR: AP7004183 (N) SOURCE CODE: UR/0369/66/002/006/0661/06	63
AUTHOR: Pokhmurskiy, V. I.; Boltarovich, A. V.; Shved, M. M.; Karpenko, G. V.	
ORG: Physicomechanical Institute, Academy of Sciences, UkrSSR, L'vov (Fiziko- mekhanicheskiy institut AN UkrSSR)	
TITLE: Effectiveness of surface strain hardening in increasing the fatigue and corrosion-fatigue strength of some stainless steels	
SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 6, 1966, 661-663	
TOPIC TAGS: Strain hardening, stainless steel, martensitic ferritic atributes st austenitic martensitic stainless steel, precipitation hardening, fatigue strangth, strain hardenings steel/Kh17N2 stainless steel, Kh17N5M3 stainless steel consume	eel,
ABSTRACT:	
Specimens of martensitic-ferritic Kh17N2 stainless steel were annealed at 1000C, oil quenched and tempered at 580C; specimens of precipitation-	
hardenable Kh17N5M3 stainless steel were annealed at 950C, air cooled, refrigerated at -70C, and aged at 450C. The heat-treated specimens were cold rolled to determine the	
effect of surface strain hardening on the fatigue and corrosion-fatigue	
strengths. It was found that the fatigue strength of Kh17N2 steel	
increases slightly (about 10%) with increased pressure of rolling and	
reaches its maximum at a pressure of about 50 dan. Increasing the pressure to 100 dan caused a sharp decrease in fatigue strength due to peeling and	
Card 1/2 UDC: none	

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330015-8"

AP7004183 ACC NR: laminating of the surface. The rolling pressure magnitude has a similar effect on the corrosion-fatigue strength, which was maximum at about 65 dan. Cold rolling of Kh17N5M3 steel with 100 dan of pressure increases the fatigue strength by 30%, the corrosion-fatigue strength by more than 2.5 times, and the rupture life under high stresses 30-50 times. It is concluded that surface strain hardening is not very effective in increasing Khl7N2 steel and high rolling pressures even the fatigue strength of have a harmful effect. However, this method is very effective for increasing the fatigue strength and, particularly, the corrosion-fatigue strength of Kh17N5M3 steel, in which the strengthening effect increases with increasing rolling pressure. Orig. art. has: 3 figures and 1 table. SUB CODE: 11, 13/ SUBM DATE: 14Aug66/ ORIG REF: 007/ ATD PRESS: 5115 2/2 Card

APPROVED FOR RELEASE: 08/31/2001

121.1

MIKHAL'CHENKO, V.M. [Mykhal'chenko, V.M.]; MISNICHENKO, O.M.; MARCHENKO, T.I.; MIKHAYLOVA, M.Y. [Mykhailova, M.I.]; SHVED, M.P.; OSTAPENKO, M.G. [Ostapenko, M.H.]; BULDEY, I.A.; MARKIN, M.S., glav. red.; CSTAPENKO, M.G. [Ostapenko, M.H.], otv. za vyp.; MINEVICH, M.I. [Minevych, M.I.], tekhn. red.

> [Soviet trade in the Ukrainian S.S.R.; statistical abstract] Radians'ka torhivlia v Ukrains'kii RSR; statystycnyi zbirnyk. Kyiv, Derzh. stat. vyd-vo, 1963. 318 p. (MIRA 16:9)

1. Ukraine. Statistichekkoye upravleniye. 2. Otdel statistiki torgovli TSentral'nogo statisticheskogo upravleniya pri sovete ministrov Ukr. SSR (for Mikhal'chenko, Misnichenko, Marchenko, Mikhaylova, Shved, Ostapenko, Buldey). 3. Nachal'nik TSentral'nogo statisticheskogo upravleniya Ukr.SSR (for Markin). (Ukraine--Commerce) (Ukraine--Statistics)

APPROVED FOR RELEASE: 08/31/2001

GRINBERG, I.V.; KORZHIDSKIY, A.F.; MASLYAKEVICH, Ya.V.; SHVED, N.A. Study of the nature of new rare organic minerals in Transcarpathia. Dokl. AN SSSR 158 no.1:116-118 S-C '64 (MIRA 17:8) 1. Institut geologii goryuchikh iskopayemykh AN UkrSSR. Predstavleno akademikom A.P. Vinogradovym.

APPROVED FOR RELEASE: 08/31/2001

GRINBERG, L.V.; SHVED, N.A.

Gravimetric microchromatographic analysis of bitumens (on the group composition of natural oils and bitumens). Znur. anal. khim. 19 no.11:1385-1390 '64. (MIRA 18:2)

1. Institute of Geology and Geochemistry of Mineral Fuels. Ukrainian S.S.R. Academy of Sciences, Lvov.

APPROVED FOR RELEASE: 08/31/2001

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001550330015-8

s/263/62/000/019/003/004 1007/1207

AUTHOR: Shved, N.N.

TITLE:

Device for determining vibration semitivity

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 19, 1962, 16, abstract 32.19.119 (Tr.Leningr. sangigien.med.in-ta, no. 73, 1961, 19)

TEXT: Brief description is given of a device for determining vibration sensitivity of various portions of the human body. The device permits investigations at an oscillation frequency of 20 to 250 cps and varying amplitude. Sound-frequency oscillations generated by a sound oscillator are fed to a power amplifier and further, through a commutating device and fed to a power amplifier and further, through a commutating device and investigations instrument, to the excitation winding of a miniature electrodynamic vibrator that convorts electric oscillations into mechanical vibrations. Finally, the oscillations are transmitted through a circular tip to that portion of the human body subjected to the investigation. The device enclosed in a metal casing is portable and is fed from the mains (network). Its weight is 5 kg.

[Abstracter's note: Complete translation.] Card 1/1

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CIA-RDP86-00513R001550330015-8

s/194/62/000/010/044/084 A061/A126

Shved, N.N. AUTHOR:

Instrument for the determination of the surface reflection factor TITLE:

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962, 9, abstract 10-5-17ch (Tr. Leningr. san.-gigiyen. med. in-ta, 1961, 73, 10 - 11)

An ΦCK (FSK) photoconductive cell connected to one of the arms of an electric bridge is used as the pickup in the instrument described. The recording is made visually on the dial of a 100- μ a M-24 (M-24) micro-ammeter. The standard of whiteness is white chalk paper, and the standard of absorbing surface is black velvet.

G.I.

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 08/31/2001

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		S/058/62/000/011/023/061 A160/A101	
AUTHOR:	Shved, N. N.		
TITLE:	A flame photometer		
PERIODICAL:	Referativnyy zhurnal, Fizika, no. 1 abstract 116217 ("Tr. Leningr. san. 1961, 73, 48 - 50)	1, 1962, 24, -gigiyen. med. in-ta",	
A1711/07			/
TEXT: investigatio	A description is given of an instru ns in the flame of acetylene.	ment designed for diagnostic	
investigatio		ment designed for diagnostic	
investigatio	ns in the flame of acetylene.	ment designed for diagnostic	
investigatio	ns in the flame of acetylene.	ment designed for diagnostic	

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77159 sov/129-60-1-7/22

AUTHOR: Shved, S. A. (Engineer)

TITLE: Acid-Resistant Castings Nonsusceptible to Intercrystalline Corrosion

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, 1960, Nr 1, pp 20-24 (USSR)

ABSTRACT: Additions of chromium ferrite to austenitic acid-resistant steel without titanium were found to promote resistance to intercrystalline corrosion. The author explains this fact by the peculiarities of chromium and carbon migration along the **Q** - and **Y**-phase boundaries. In cast steel, chromium ferrite (maximum 20 to 25%) is distributed at random, which distinguishes that type of steel from rolled steel. Minimum additions of 0.3% Ti produce hard, brittle dendritic inclusions along grain boundaries. Further additions increase brittleness. In quantities over 0.35 to 0.40%, Ti affects the plastic properties of 1Kh18N9T-steel adversely. The author investigated possibilities of finding a substitute for

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Acid-Resistant Castings Nonsusceptible to Intercrystalline Corrosion

77159 SOV/129-60-1-7/22

1Kh18N9T-steel (composition: C, 0.12%; Si, 0.8; Mn, 2.0; Cr, 17.0 to 20.0; Ni, 8.0 to 11.0; Ti, 5%) by testing 40 specimens with a low Ti content and 6 Kh18N4G4-steel (composition not given) specimens with regular Ti content. Sequence of tests: Specimens were cast into sand molds according to State Standards (GOST 977-53). Test billets ($25 \times 30 \times 200$ mm) were cut by electric arc method, hardened together with castings, planed and ground to specifications. The procedure was followed by A-2 State Standard (GOST 6032-51) tests (description of test not given) and results verified by 90° bending and tenfold magnification of the surface. Specimens with less than 0.15% Ti showed no tendency toward intercrystalline corrosion. The author found the presence of Ti to exert a decisive influence on the amount of the α -phase. In order to obtain 10 to 25% α -phase after hardening, which ensures a high degree of corrosion-resistance, the author recommends Kh2ON8-steel of the following composition: C, 0.11%; Si, maximum C.8%; Mn, 1 to 2%; Cr, 18.5 to

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Acid-Resistant Castings Nonsusceptible to Intercrystalline Corrosion

77159 S0V/129-60-1-7/22

21%; Ni, 7.5 to 9%; Ti, 0.12 to 0.20%. The steel has excellent casting properties and a high degree of soundness. Strength and plastic properties are superior to those of 1Kh18N9T-steel. Good casting and mechanical properties were also observed in Kh18N4Gnsteel. The author emphasizes that in quantities over 0.30% Ti causes the formation of nonmetallic inclusions; dendritic inclusions of titanium sulfides form along grain boundaries. There are 3 tables; and 4 Soviet references.

ASSOCIATION: Myshega Fitting Plant (Myshegskiy armaturnyy zavod)

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001550330015-8

SHVED, T.L. kand.tekhn.nauk

Reciprocal motion of loci of instantaneous acceleration centers on a plane figure and stationary plane. Trudy OTIP i KHP 8 no.1:75-88 '57.

1. Kafedra matematiki Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti. (Notion) (Geometry, Plane)

APPROVED FOR RELEASE: 08/31/2001

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9(AUTHOR: Shved, V. (Rozhishchenskiy rayon Volynskoy oblasti) TITLE: In the Rozhishchenskiy Rayon They Do Not Cooperate With Radio Amateurs FERIODICAL: Radio. 1959, Nr 7. p 16 (USSR) ABSTRACT: There are only a few radio amateurs in the Rozhish- chenskiy rayon, among them V. Krizhanovskiy, S. Kozel, V. Yatsenko, I. Kravchuk. The local DOSAAF Committee, Chairman Ivolga does not show any interest in radio amateur activities. Radio amateur sections could be organized at different installations in this area, for example at the Zoovettekhnikum, but DOSAAF does not use existing possibilities. Radio parts are diffi- cult to obtain, since the manager of Raypotrebsoyuz, Yakovlev, does not show any interest in procuring them.			
91AUTHOR:Shved, V. (Rozhishchenskiy rayon Volynskoy oblasti)TITLE:In the Rozhishchenskiy Rayon They Do Not Cooperate With Radio AmateursPERICDICAL:Radio. 1959. Nr 7. p 16 (USSR)ABSTRACTThere are only a few radio amateurs in the Rozhish- chenskiy rayon, among them V. Krizhanovskiy, S. Kozel, V. Yatsenko, I. Kravchuk. The local DOSAAF Committee, Chairman Ivolga, does not show any interest in radio amateur activities. Radio amateur sections could be organized at different installations in this area, for example at the Zoovettekhnikum, but DOSAAF does not use existing possibilities. Radio parts are diffi- cult to obtain, since the manager of Raypotrebsoyuz, Yakovlev, does not show any interest in procuring them.	<u>^</u>		
 TITLE: In the Rozhishchenskiy Rayon They Do Not Cooperate With Radio Amateurs PERICDICAL: Radio. 1959. Nr 7. p 16 (USSR) ABSTRACT: There are only a few radio amateurs in the Rozhish-chenskiy rayon, among them V. Krizhanovskiy, S. Kozel, V. Yatsenko, I. Kravchuk. The local DOSAAF Committee, Chairman Ivolga, does not show any interest in radio amateur activities. Radio amateur sections could be organized at different installations in this area, for example at the Zoovettekhnikum, but DOSAAF does not use existing possibilities. Radio parts are difficult to obtain, since the manager of Raypotrebsoyuz, Yakovlev, does not show any interest in procuring them. 	90		
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ABSTRACT There are only a few radio amateurs in the Rozhish- chenskiy rayon, among them V. Krizhanovskiy, S. Kozel, V. Yatsenko, I. Kravchuk. The local DOSAAF Committee, Chairman Ivolga, does not show any interest in radio amateur activities. Radio amateur sections could be organized at different installations in this area, for example at the Zoovettekhnikum, but DOSAAF does not use existing possibilities. Radio parts are diffi- cult to obtain, since the manager of Raypotrebsoyuz, Yakovlev, does not show any interest in procuring them.	TITLE:	In the Rozhishchenskiy Rayon They Do Not Cooperate With Radio Amateurs	
chenskiy rayon, among them V. Krizhanovskiy, S. Kozel, V. Yatsenko, I. Kravchuk. The local DOSAAF Committee, Chairman Ivolga, does not show any interest in radio amateur activities. Radio amateur sections could be organized at different installations in this area, for example at the Zoovettekhnikum, but DOSAAF does not use existing possibilities. Radio parts are diffi- cult to obtain, since the manager of Raypotrebsoyuz, Yakovlev, does not show any interest in procuring them.	PERIODICAL:	Radio, 1959, Nr 7, p 16 (USSR)	
Card 1/1	ABSTRACT	chenskiy rayon, among them V. Krizhanovskiy, S. Kozel, V. Yatsenko, I. Kravchuk. The local DOSAAF Committee, Chairman Ivolga, does not show any interest in radio amateur activities. Radio amateur sections could be organized at different installations in this area, for example at the Zoovettekhnikum, but DOSAAF does not use existing possibilities. Radio parts are diffi- cult to obtain, since the manager of Raypotrebsoyuz, Yakovlev, does not show any interest in procuring	
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SHVED, V.I.

Significance of para-strains in the active detection of subjects spreading dysentery bacelli. Zhur. mikrobiol. epid.i icmun. 31 no.6:46-47 Je '60. (SHIGELLA PARADYSENTERIAE) (ESCHERICHIA COLI)

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SMOIT YERINOVA, N. 7. THETTO, V. S.

Uifect of the temperature of thermal processing of gas coals on the yield and composition of lower phenols. Izv. TPI 126:15-20 (MIRA 18:7)

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CIA-RDP86-00513R001550330015-8

KALINICHENKO, V.F., kand.tekhn.nauk; KIRICHUK, B.N., inzh.; SHVED, Yu.M., inzh.

Automation of the crushing and sorting plant at the "Severnaya" Mine. Gor.zhur. no.12:46-48 D '64. (MIRA 18:1)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy hog.

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