laxation spectrum was also obtained under stress rupture conditions: a temperature of 1500°C and a stress of 6.45 kg/mm$^2$. The background and peak height intensified as the holding time increased. These changes were caused by the increase in point defects and their agglomeration. The effect of thermal cycling on the relaxation spectrum and high temperature background on both polycrystalline and monocrystalline samples was presented. Internal friction was given as a function of thermal cycles at 1000, 1500, 2000, 2200, and 2600°C. In single crystals, the background increased at all temperatures, while the polycrystal parts of the background lying near the grain boundary peak did not change with thermal cycling. The absorption of vacancies and bivacancies by sinks was compensated for by the continuous generation of these defects during thermal cycling. This explained the low change in internal friction during thermal cycling in polycrystals where the grain boundaries act as sinks. Microstructures of thermally cycled specimens showed widening of grain boundaries and substructural networks. Orig. art. has: 4 figures.

SUB CODE: 11/ SUBM DATE: 02Apr66/ ORIG REF: 011/ OTH REF: 005



APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100830001-8"

(A) SOURCE CODE: UR/0000/66/000/000/0112/0118

AUTHOR: Aleksandrov, L. N.; Mordyuk, V. S.

ORG: none

TITLE: The parameters of recrystallization of refractory metals according to data on internal friction

SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye zharoprochnykh splavov (Properties and application of heat resistant alloys). Moscow, Izd-vo Nauka, 1966, 112-118

TOPIC TAGS: metal recrystallization, refractory metal, internal friction, relaxation process

ABSTRACT: If it is assumed that the time required for the attainment of a given degree of recrystallization is described by the relationship

$$t = A(\eta, T)\exp(U_{eff}/RT),$$

then a study of the kinetics of isothermal internal friction makes it possible to evaluate $U_{eff}$. Following the overall laws governing relaxation processes, the level of the internal friction $Q^{-1}$ varies according to the law

$$Q^{-1}(t) = Q_{\infty}^{-1} + (Q_0^{-1} - Q_{\infty}^{-1})\exp\left(-\frac{t}{\tau}\right), \quad (2)$$

Card 1/2

ACC NR: AT6034444

where $\tau$ is the relaxation time; $Q_0^{-1}$ and $Q_\infty^{-1}$ are the initial internal friction of a deformed sample and the internal friction after recrystallization. The article presents a series of curves illustrating the temperature dependence of the internal friction of deformed and recrystallized tungsten, and the temperature dependence of the heat resistance. Orig. art. has: 6 formulas and 5 figures.

SUB CODE: 11/ SUBM DATE: 10Jun66/ ORIG REF: 012/ OTH REF: 002

Card 2/2

ALEKSANDROV, L.N.; LYUBOV, B.Ya.

Concerning the theory of austenite transformation in the intermediate region. Probl. metalloved. i fiz. met. no.8:227-234 '64. (MIRA 18:7)

ALEKSANDROV, L.V.

At the exhibition of farm invention. Nauka i pered. op. v sel'khoz. 7 no.4:49-51 Ap '57. (MLRA 10:6)
(Agricultural machinery--Exhibitions)

ALEKSANDROV, M.

Efficient management of scientific technical societies.
NTO no.6:49-50 Je '59. (MIRA 12:9)

1.Predsedatel' TSentral'nogo komiteta profsoyuza rabochikh elektrostantsiy i elektropromyshlennosti.
(Research, Industrial)

ALEKSANDROV, [illegible]

From Sofia. Sov. torg. no.11:55-56 N '57. (MIRA 10:12)

1. Glavnyy redaktor zhurnala "Sotsialisticheska turgoviya."
(Bulgaria--Retail trade)

ALEKSANDROV, M.

Communications on the Thaelmann Collective Farm. Sov.sviaz 2 no.11:20-21 N '52. (MLRA 7:8)
(Telecommunication)

ALEKSANDROV, M.

New profession of Ivan Bondarenko. Znan.sila 36 no.3:12-13 Mr '61.
(MIRA 14:3)
(Swine houses and equipment)

ALEKSANDROV, M.

Replacing a vibratory converter with a thyratron. Radio no.4: 52-53 Ap '55. (MLRA 8:6)
(Electric current converters)

CHUMAKOV, N.; ALEKSANDROV, M.; ALEKSEYEV, A.

Provisions of the all-Union contest for the best suggestion for saving electric and heat power. Prom. energ. 13 no.5:34-35 My '58. (MIRA 11:8)

1. Nachal'nik Gosudarstvennoy inspektsii po promenergetike i energonadzoru Ministerstva elektrostantsiy (for Chumakov). 2. Predsedatel' TSentral'nogo Komiteta Soyuza rabochikh elektrostantsiy i elektropromyshlennosti (for Aleksandrov). 3. Predsedatel' TSentral'nogo pravleniay nauchno-tekhnicheskogo otdela energeticheskoy promyshlennosti (for Alekseyev).
(Power engineering--Competitions)

ALEKSANDROV, M.; STEPANOV, V.

The sixth day and ...the seventh day. Znan.sila 37 no.3:26-27 Mr '62. (MIRA 15:4)

(Embryological research)

ALEKSANDROV, M.A., kand.tekhn.nauk

Mounted flax puller. Trakt.i sel'khozmash. no.8:29-31 Ag '59. (MIRA 12:11)

(Flax--Harvesting)

ALEKSANDROV, M.A.

The TIN-1,5 mounted flax puller. Biul.tekh.-ekon.inform. no.8:65-67 '59. (MIRA 13:1)
(Flax processing machinery)

RAKITIN, Yu.V.; ZEMSKAYA, V.A.; ALEKSANDROV, M.A.

Preharvest chemical desiccation of rice. Izv. AN SSSR. Ser. biol. 26 no.5:729-739 S-O '61. (MIRA 14:9)

1. The Kuban Experimental Rice Plantation, Institute of Plant Physiology, Academy of Sciences of the U.S.S.R., Moscow.
(RICE--HARVESTING) (DRYING AGENTS)

ALEKSANDROV, M. A

GENKIN, Israil' Borisovich; ALEKSANDROV, Marks Aleksandrovich; KOVALEVA, A.A., vedushchiy red.; POLOSINA, A.C., tekhn. red.

[Economics and organization of large subassembly construction of drilling stations] Ekonomika i organizatsiia krupnoblochnogo sooruzheniia burovykh. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 135 p. (MIRA 11:7)
(Petroleum engineering--Equipment and supplies)

ALEKSANDROV, M.A., inzh.

Straightening the deflected column in a shop without interrupting its operations. Nov. tekh. i pered. op. v stroi. 20 no.1:18-20 Ja '58. (MIRA 11:2)
(Columns, Iron and steel)

SMIRNOV, K.F., elektrosvaishchik; ALEKSANDROV,M.A., slesar.

Device used for simultaneous heating of water and sand in concrete mixers. Rats. i izobr. predl. v stroi. no.5:8-9 '58.
(MIRA 11:6)

1.Stroitel'nyy uchastok-2 tresta Baltransstroy (for Smirnov), Riga, ul. Lachplesha, d. 36.
(Heating plants) (Concrete mixers)

ALEKSANDROV, M.A.

Attachment for double-action pile hammers used in driving pile-planking. Rats. i izobr. predl. v stroi. no.5:84-86 '58.
(MIRA 11:6)

(Piling (Civil engineering)) (Hammers)

KOTLYAR, Mikhail Davydovich; ALEKSANDROV, Mark Aleksandrovich; ISAYEVA, V.V., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Drilling practices of the progressive Al'met'yevsk Oil Well Drilling Trust] Opyt raboty peredovogo tresta Al'met'evburneft'. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 52 p. (MIRA 13:11)
(Al'met'yevsk region--Oil well drilling)

BARKAN, D.D.; TIKUNOV, P.R.; SHEKHTER, O.Ya.; PREOBRAZHENSKAYA, N.A.; SAVINOV, O.A.; LUSKIN, A.Ya.; GREBENNIK, A.A.; MERZLYAK, TS.N.; ALEKSANDROV, M.A.; TSAPLIN, S.A.; PAVLOVA, A.B.; DITRIKH, Yu.V.; KHAVIN, B.N., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Instructions for driving and extracting steel pile planks using SN 59-59 vibrator.] Instruktsiia po pogruzheniiu i izvlecheniiu stal'nogo shpunta vibropogruzhateliami SN 59-59. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 46 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Nauchno-issledovatel'skiy institut osnovaniy i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury SSSR (for Barkan, Tikunov, Shekhter, Preobrazhenskaya). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (VNIIGS) (for Savinov, Luskin). 4. Fundamentproyekt (for Grebennik, Merzlyak). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut stroitel'nogo i dorozhnogo mashinostroyeniya (VNIIStroydormash) (for TSaplin). 6. Gidroproyekt (for Pavlova). 7. Gidrospetsfundamentstroy (for Ditrikh). (Vibrators) (Piling (Civil engineering))

ZABEZHINSKIY, V.I., inzh.; ALEKSANDROV, M.A., inzh.

Calculation of the mechanical strength of cantilever beams under the action of distributed loads. Vest.mash. 42 no.3:51-54 Mr '62. (MIRA 15:3)
(Beams and girders)

ALEKSANDROV, M.A., kand. tekhn. nauk

IMN-1 flax pick-up and thrasher. Biul. tekh.-ekon.inform. Gos.nauch.-issl.inst.nauch. i tekh.inform. no.3:55-57 '63. (MIRA 16:4)

(Flax processing machinery)

ALEKSANDROV, Marks Aleksandrovich; ISAYEVA, V.V., ved. red.; STAROSTINA, L.D., tekhn. red.

[Economic aspects of the use of turbodrills] Ekonomika ekspluatatsii turboburov. Moskva, Gostoptekhizdat, 1963. 64 p. (MIRA 16:11)
(Turbodrills) (Oil well drilling)

KORSHUNOV, I.V.; ALEKSANDROV, M.A.

Economic conditions for selecting the form of the organization to run drilling crews. Neft. khoz. 41 no.7:10-13 Jl '63
(MIRA 17:7)

ALEKSANDROV, M.A.

Method for claculating the cost per meter of footage as a function of the drilling regime parameters. Trudy VNIIBT no.14:192-196 '65. (MIRA 18:5)

ALEKSANDROV, Mikhail Aleksandrovich; MEL'MAN, S.M., otv. red.; REZNIKOV, V.L., red.

[Calculated waste; some aspects of the U.S.A. economic aid to the developing countries] Raschetlivaia rastochitel'nost'; nekotorye aspekty ekonomicheskoi pomoshchi SShA razvivaiushchimsia stranam. Moskva, Nauka, 1965. 65 p. (MIRA 18:8)

SMETANIN, A.P., kand. sel'khoz. nauk; KIRICHENKO, K.S., kand. sel'khoz. nauk; ZAYTSEV, V.B., kand. sel'khoz. nauk; ALEKSANDROV, M.A.; ORLOVA, V.P., red.

[Rice cultivation on the "Slavianskii" State Farm; based on experience with M.E.Baranova's group] Vozdelyvanie risa v sovkhoze "Slavianskii"; na opyte zvena M.E.Baranovoi. Moskva, Kolos, 1965. 129 p. (MIRA 18:7)

ALEKSANDROV, N.I., doktor med.nauk; GEFEN, N.Ye., doktor med.nauk

Current state, further ways and prospects for the development of chemical vaccines; a review of the literature. Voen.-med.zhur. no.1:53-60 '65. (MIRA 18:10)

ALEKSANDROV, N.I.; GEFEN, N.Ye.; DOBROVOL'SKIY, K.F.; YEZEPCHUK, Yu.V.; LEBEDINSKIY, V.A.; MIKHAYLOV, B.Ya.; RUNOVA, V.F.; SEREGINA, A.I.; FILIPPENKO, A.I.

Immunogenicity of chemical anthrax vaccine in experiments on sheep. Zhur. mikrobiol., epid. i immun. 42 no.1:57-60 Ja '65.
(MIRA 18:6)

SOLOV'YEV, P.I.; ALEKSANDROV, M.D.

Increasing the size of packages on RTT-168 coiler-rovers. Tekst. prom. 24 no.8:37-38 Ag '64. (MIRA 17:10)

1. Glavnyy inzh. pryadil'no-tkatskoy fabriki "Kommunisticheskiy avangard" Verkhne-Volzhskogo soveta narodnogo khozyaystva (for Solov'yev). 2. Nachal'nik byuro tekhnicheskoy informatsii pryadil'no-tkatskoy fabriki "Kommunisticheskiy avangard" Verkhne-Volzhskogo soveta narodnogo khozyaystva (for Aleksandrov).

ALEKSANDROV, M. I., Engr. Cand. Tech. Sci.

Dissertation: "Investigation of the Process of Brake Locking." Central Sci Res Inst of Technology and Machine Building - "TsNIITMASh." 22 Dec 47.

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

15-57-1-1072

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1, p 172 (USSR)

AUTHORS: Aleksandrov, M. I., Yagovkin, V. I.

TITLE: The Compilation of Geological Data for a Metallogenic Map of Central Kazakhstan (Sostavleniye geologicheskoy osnovy dlya metallogenicheskoy karty Tsentral'nogo Kazakhstana)

PERIODICAL: Sb. nauch-tekhn. inform. M-vo geol. i okhrany nedr, 1955, Nr 1, pp 5-19

ABSTRACT: The authors report the results of controlled correlation surveys in 1954, having as their goal the more accurate determination of the stratigraphy, intrusive activity, and structure of the Shetskiy, Aktogay, and Karkaralinsk regions of Kazakhstan. In the Shetskiy and Aktogay regions important ore zones of considerable interest occur: the Uspenskiy zone of crumpling, the

Card 1/3

The Compilation of Geological Data (Cont.)

Permian. The stratigraphic outline worked out by the authors may be easily correlated with that adopted for the northern Balkhash region. The intrusive rocks of the regions are chiefly Hercynian granitoidal masses, among which early Hercynian and late Hercynian units may be distinguished. An intra-Visean ("Saur") phase of folding is recognized. In the Karkaralinsk region a group of sedimentary and volcanic-sedimentary rocks of Lower Carboniferous age and a volcanic sequence of upper Paleozoic age have been distinguished. These were formerly considered to be either Silurian, Devonian, or Lower Carboniferous. Early Hercynian, middle Hercynian, and late Hercynian intrusive rocks are differentiated in this region. Young faults, strongly expressed in features of relief, are widespread. The authors emphasize the different character in the folding of the older complexes. They distinguish a Sudetka phase and a Saur phase of folding, a folding before the Upper Carboniferous and also at the boundary between the Silurian and the Devonian.

Card 3/3

A. V. G.

ALEKSANDROV, M.I.

Experience in the adoption of new equipment. Tekst. prom. 20 no. 11:59-61 N '60. (MIRA 13:12)

1. Glavnyy inzhener Klintsovskoy shpagatnoy fabriki. (Klintsy--Twine)

ALEKSANDROV, M.K.

Crop quality as related to the defoliation of the cotton plant.
Izv. AN Uz.SSR no.1:50-56 '53. (MIRA 11:3)
(Uzbekistan--Cotton growing) (Defoliation)

ALEKSANDROV, M.K.

Fiber formation in checkrowed cotton. Dokl. AN Uz. SSR no.7:41-44 '56. (MIRA 12:6)

1.Predstavleno chlenom-korrespondentom AN UzSSR A.I. Avtonomovym.
(Cotton)

ALEKSANDROV, M.K.

Effect of certain cultivation factors on the quality of cotton fibers. Izv.Otd.est.nauk AN Tadzh.SSR no.14:95-103 '56. (MLRA 9:10)

1. Institut sel'skogo khozyaystva AN Uzbekskoy SSR.
(Cotton) (Fibers)

ALEKSANDROV, M.K.

Formation of the cotton fiber as affected by growing conditions.
Izv.Otd.est.nauk.AN Tadzh.SSR no.15:79-87 '56. (MLRA 10:2)

1. Institut sel'skogo khozyaystva AN Uzbekskoy SSR.
(Cotton growing) (Fibers)

ALEKSANDROV, M.K.; GERASIMOVA, V.F.

Quality of raw cotton and fiber following the defoliation of cotton by means of new chemicals. Izv. AN Uz. SSR no. 9:43-47 '56.
(MIRA 14:5)

(Cotton) (Defoliation)

ALEKSANDROV, ML.

For a Broad Spreading of Technical Ideas. Leka Promishlenost (Light Industry), #10:27:Oct. 1955

FRENKEL, P.M.; AYZENBERG, Ya.M.; BAZAROV, A.R.; PISHCHIK, M.A.; CHETYRKINA, V.G.; SHISHKIN, R.G.; KOSENKO, I.S.; RUBINCHIK, M.I.; AVRAMENKO, V.N.; ALEKSANDROV, M.M.; VASIL'YEV, V.A., red.

[Use of prestressed reinforced concrete in foreign countries] Primenenie predvaritel'no napriazhennogo zhelezobetona za rubezhom. Moskva, Stroiizdat, 1964. 85 p. (MIRA 17:6)

ALEKSANDROV, M.M.

AID P - 569

Subject : USSR/Mining

Card 1/1 Pub. 78 - 6/22

Author : Aleksandrov, M. M.

Title : Determination of the initial stock data for construction or expansion of drilling pipe bases

Periodical : Neft. Khoz., v. 32, #8, 26-27, Ag 1954

Abstract : The author offers a method for the determination of basic data on drilling pipe supply under the consideration of the annual replacement of pipe stock and total pipe length in all oil wells.

Institution : None

Submitted : No date

ALEKSANDROV, M.M.

Quantitive determination of friction of a drilling tool against the walls of a crooked well. Izv. vys. uchab. zav.; neft' i gaz 2 no.4:41-48 '59. (MIRA 12:10)

1.Groznenskiy neftyanoy institut.
(Oil well drilling)

ALEKSANDROV, M.M.

Determining the torsion angle of drill pipes when using a turbodrill in a well of complex profile. Izv. vys. ucheb. zav.; neft' i gaz 2 no.8:17-23 '59. (MIRA 12:11)

1.Groznenskiy neftyanoy institut.
(Oil well drilling)

ALEKSANDROV, M. M., Cand [redacted] Tech Sci -- "On the force of friction in curved wells under drilling." Baku, 1960. (Min of Higher and Secondary Specialized Education USSR. Azerbaydzhan Order of Labor Red Banner Inst of Petroleum and Chemistry im M. Azizbekov). (KL, 1-61, 191)

ALEKSANDROV, M.M.

Determining the actual weight of a tool in drilling controlled crooked wells. Izv. vys. ucheb. zav.; neft' i gaz 3 no.1:35-41 '60. (MIRA 14:10)

1. Groznenskiy neftyanoy institut.
(Oil well drilling)

FEDOROV, V.S.; ALEKSANDROV, M.M.

Problem of pipe freezing under hydrostatic pressure. Izv. vys. ucheb. zav.; neft' i gaz 3 no.4:29-36 '60. (MIRA 15:6)

1. Groznenskiy neftyanoy institut.
(Oil well drilling)

ALEKSANDROV, M.M.

Value of the coefficient of friction of a drilling tool during its motion in a crooked well and means for simplifying the calculations of friction forces. Izv.vys.ucheb. zav.; neft' i gaz 3 no.6:39-46 '60. (MIRA 13:7)

1. Groznenskiy neftyanoy institut.
(Oil well drilling)

ALEKSANDROV, M.M.

Friction in the process of drilling deflected holes with bottom motors and estimating the actual load on the bit. Izv. vys. ucheb. zav.; neft' i gaz 5 no.1:19-22 '62. (MIRA 16:11)

1. Groznenskiy neftyanoy institut.

ALEKSANDROV, M.M.

Determining the frictional force in the movement of drilling pipes in deep slightly deflected holes. Razved. i okh. nedr 29 no.7:32-37 Jl '63. (MIRA 16:9)

1. Groznenskiy neftyanoy institut.
(Boring) (Friction)

ALEKSANDROV, M.M.

Effect of frictional force in a well on the efficient of the intermediate speeds of a draw works. Izv. vys. ucheb. zav.; neft' i gaz 5 no.11:17-20 '62. (MIRA 17:6)

1. Groznenskiy neftyanoy institut.

ALEKSANDROV, Mikhail Mikhaylovich

[Determining the forces of resistance in borehole drilling] Opredelenie sil soprotivleniia pri burenii skvazhin. Moskva, Nedra, 1965. 175 p. (MIRA 18:3)

BELIKOV, V.G.; ALEKSANDROV, M M.

More about the problem of determining the basic hydraulic parameters of a turbine drilling rig. Izv. vys. ucheb. zav.; neft' i gaz 8 no.1:117-119 '65. (MIRA 18:2)

1. Groznenskiy neftyanoy institut.

ALEKSANDROV, M.N.

Effect of dynamic factors on the specification of strength dimensions of anchor chains. Trudy LKI no.34:5-13 '61. (MIRA 15:8)

1. Kafedra konstruktsii sudov Leningradskogo korablestroitel'nogo instituta.
(Anchors) (Ships--Hydrodynamics)

ALEKSANDROV, M.N.

Experimental determination of the coefficients of resistance of steel cables surrounded by a flow moving in the direction of the axis of the cable. Trudy LKI no.32:15-18 '60. (MIRA 15:2)

1. Kafedra konstruktsii sudov leningradskogo korablestoritel'nogo instituta.
(Frictional resistance(Hydrodynamics)

SHMAKOV, Mikhail Georgiyevich; KLIMOV, Andrey Stepanovich; ALEKSANDROV, M.N., kand. tekhn. nauk, retsenzent; MALOMEDOV, A.N., inzh., retsenzent; KRAKOVSKIY, I.I., doktor tekhn. nauk, prof., nauchn. red.; SHAKHNOVA, V.M., red.

[Anchor and mooring gear; design and calculation] IAkornye i shvartovnye ustroistva; proektirovanie i raschet. Leningrad, Sudostroenie 1964. 415 p. (MIRA 18:1)

ALEKSANDROV, M.N., inzh.; VAVIN, V.N., inzh.; VESELOV, S.V., inzh.

Spontaneous frequency separation in the DFZ-2 differential-phase filter of high-frequency protection. Elek.sta. 29 no.11:82 N '58. (MIRA 11:12)

(Electric filters)

ALEKSANDROV, N.M.; RODIONOVA, L.P.

Nuclear magnetic resonance in a polycrystalline hydrate of uranium trioxide. Zhur.strukt.khim. 3 no.1:97-98 Ja-F '62.
(MIRA 15:3)

1. Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta i Radiyevyy institut imeni V.G.Khlopina, Leningrad.

(Uranium oxides--Spectra) (Nuclear magnetic resonance and relaxation)

ALEKSANDROV, M. P.

Tormozy pod"emno-transportnykh mashin [Brakes in hoisting and conveying machinery]. Moskva, Mashgiz, 1953. 228 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 12 March 1954.

GURARI, Natan Grigor'yevich; ALEKSANDROV, M.P., dotsent, kandidat tekhnicheskikh nauk, retsenzent; FALEYEV, G.A., inzhener, retsenzent; DEDUKH, V.A., inzhener, spetsredaktor; IVANOVA, N.M., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor

[Hoisting and transporting equipment in the meat and dairy industry] Pod"emno-transportnoe oborudovanie miasnoi i molochnoi promyshlennosti. Moskva, Pishchepromizdat. Pt.1. [Load-lifting machines and elevators] Gruzopod"emnye mashiny i elevatory. 1956. 192 p.
(Hoisting machinery) (MLRA 10:1)

Name: ALEKSANDROV, Mikhail Pavlovich

Dissertation: Study of thermal conditions of crane-brakes

Degree: Doc Tech Sci

Affiliation: [not indicated]

Defense Date, Place: 7 May 56, Council of Moscow Order of Lenin and Order of Labor Red Banner Higher Tech School imeni Bauman

Certification Date: 6 Jul 57

Source: BMVO 18/57

ALEKSANDROV, M.P.

NIKOLAYEVSKIY, G.M., kandidat tekhnicheskikh nauk; ALEKSANDROV, M.P., kandidat tekhnicheskikh nauk; AKSENOV, I.P., kandidat tekhnicheskikh nauk; MEKLER, A.G., kandidat tekhnicheskikh nauk; SPITSYNA, I.O., kandidat tekhnicheskikh nauk; ZORINA, Z.M., inzhener; VOROBKOV, G.N., inzhener; IVASHKOV, I.I., kandidat tekhnicheskikh nauk; POLKOVNIKOV, V.S., kandidat tekhnicheskikh nauk; MODEL', B.I., tekhnicheskiy redaktor

[Calculations for crane mechanisms and parts for hoisting and conveying machines] Raschety kranovykh mekhanizmov i detalei pod"emno-transportnykh mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 435 p. (MIRA 10:8)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut pod"yemno-transportnogo mashinostroyeniya
(Cranes, derricks, etc.)

ALEKSANDROV, Mikhail Pavlovich, doktor tekhn. nauk; OSTOL'SKIY, V.I., kand. tekhn. nauk, red.; OSIPOVA, L.A., red. idz-va; KL'KIND, V.D., tekhn. red.

[Brakes for hoisting machinery] Tormoza pod"emno-transportnykh mashin. Izd.2., ispr. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 315 p. (MIRA 11:7)

(Hoisting machinery--Brakes)

25(2) PHASE I BOOK EXPLOITATION SOV/1947

Moscow. Vyssheye tekhnicheskoye uchilishche im. N. E. Baumana.

Povysheniye dolgovechnosti detaley mashin; sbornik statey (Extending the Service Life of Machine Parts; Collection of Articles) Moscow, Mashgiz, 1959. 161 p. (Series: Its: [Trudy] 91) Errata slip inserted. 6,000 copies printed.

Eds. (Title page): E. A. Satel', Honored Worker in Science and Technology, Doctor of Technical Sciences, Professor and D. N. Reshetov, Doctor of Technical Sciences, Professor; Ed. (Inside book): R. M. Korableva, Engineer; Tech. Ed.: V. D. El'kind; Managing Ed. for Literature on General Technical and Transport Machine Building (Mashgiz): K. A. Ponomareva, Engineer.

PURPOSE: This collection of articles is intended for mechanical and metallurgical engineers and technicians.

COVERAGE: Articles included in this collection were presented to the Scientific and Technical Convention held at the Moscow Higher Technical School in 1957. The Convention met to explore the possibilities of extending the service life of machines and their parts. The articles cover problems pertaining to machine

Card 1/4

building, engineering, and the thermal and chemical treatment of the materials used for machine parts. Pretreatment and processing of machine parts and the materials from which they are made are reviewed, and ways of extending their service life explored. Causes of material corrosion, fatigue, and deterioration are investigated. Problems of extending the service life of automobiles, lowering their weight, improving the wear resistance of brake linings, and eliminating overheating are discussed. In addition, low temperature cyanidation of structural steel is described, and the durability of tractor transmissions and ways of improving it dealt with. The book contains numerous graphs, tables, illustrations and formulas. Individual articles are accompanced by references.

TABLE OF CONTENTS:

AVALIABLE: Library of Congress

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Card 4/4

Aleksandrov, M.P.

PHASE I BOOK EXPLOITATION SOV/3604

Akademiya nauk SSSR. Institut mashinovedeniya

Povysheniye effektivnosti tormoznykh ustroystv. Sbornik frikcionnykh materialov (Increasing the Efficiency of Braking Devices; Friction Materials) Moscow, Izd-vo AN SSSR, 1959.
Properties of Friction Materials). 1,800 copies printed.
183 p. Errata slip inserted.

Resp. Ed.: V.S. Shchedrov, Doctor of Technical Sciences, Professor; Ed. of Publishing House: F.S. Polyanin; Tech. Ed.: T.V. Polyakova.

PURPOSE: This collection of articles is intended for engineers and scientific workers specializing in brakes and friction materials.

COVERAGE: The first group of articles deals with basic design requirements for increasing the life and efficiency of brake; fields of application of new friction materials, the third group with testing methods and the results of investigations of friction pairs and brakes, and the fourth group with the design of brakes and calculation data. No personalities are mentioned. References accompany most of the articles.

TABLE OF CONTENTS:

PART III. METHODS OF TESTING AND INVESTIGATING FRICTION PAIRS AND BRAKES



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Card 7/7

ALEKSANDROV, M.P., doktor tekhn.nauk, prof.

Increasing the wear resistance of friction linings of crane brakes.
[Trudy] MVTU no.91:81-94 '59. (MIRA 12:7)
(Cranes, derricks, etc.--Brakes)

PHASE I BOOK EXPLOITATION SOV/5122

Aleksandrov, Mikhail Pavlovich, Doctor of Technical Sciences, Professor Pod"yemno-transportnyye mashiny (Hoisting Machinery and Conveyors) Moscow, Mashgiz, 1960. 300 p. Errata slip inserted. 25,000 copies printed.

Reviewers: Kafedra pod"yemno-transportnykh mashin Leningradskogo politekhnicheskogo instituta im. M.I. Kalinina, Department Chairman: A.I. Dukel'skiy, Professor; Kafedra pod"yemno-transportnykh mashin Ural'skogo politekhnicheskogo instituta im. S.M. Kirova, Acting Department Chairman: K.S. Veselkova, Candidate of Technical Sciences, Docent.

Ed.: E.A. Beynenson, Engineer; Ed. of Publishing House: A.G. Nikitin; Tech. Ed.: V.D. El'kind; Managing Ed. for Literature on General Technical and Transport Machine Building: A.P. Kozlov, Engineer.

PURPOSE: This textbook is intended for students taking general courses in hoisting machinery and conveyors at schools of higher technical education.

COVERAGE: Concise descriptions are given of principal designs of hoisting machinery and conveyors. Operational principles, fundamentals of calculating and designing, and applications to assembly-line and automated production are discussed.

Card ~~1/6~~

Information on the following topics and items is included: stability, steady motion, starting, applying brakes, permissible unit stresses, safety precautions, load-lifting devices, jacks, hoists, tackles, brakes, stopping devices, drums, drive units, hoist trolleys, elevators, and belt, chain, gravity, vibrating, and pneumatic conveyors. No personalities are mentioned. There are 29 references: 28 Soviet and 1 German.

TABLE OF CONTENTS:

ALEKSANDROV, Mikhail Pavlovich, prof., doktor tekhn.nauk; BEYNZNSON, E.A., inzh., red.; NIKITIN, A.G., red.izd-va; KL'KIND, V.D., tekhn.red.

[Hoisting and confeying machinery] Pod"emno-transportnye mashiny. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 300 p. (MIRA 13:10)
(Hoisting machinery) (Conveying machinery)

ALEKSANDROV, M.P.

Use of similitude theory apparatus for determining the heating of braking devices. Trudy MIIT no.139:263-270 '61. (MIRA 16:4)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.
(Dimensional analysis) (Brakes)

RUDENKO, N.F.; ALEKSANDROV, M.P.; LYSYAKOV, A.G.; TREYYER, V.N., doktor tekhn. nauk, prof., retsenzent; BULATOV, S.I., red. izd-va; DEMKINA, N.F., tekhn. red.

[Course project in the design of hoisting machinery] Kursovoe proektirovanie gruzopod"emnykh mashin. Moskva, Mashgiz, 1963. 303 p. (MIRA 16:9)

1. Chlen-korrespondent AN Bel.SSR (for Treyyer)
(Hoisting machinery--Study and teaching)

KUKIENYY, A.A.; ALEKSANDROV, M.P., doktor tekhn. nauk, prof., retsenzent; STRELETSKAYA, L.F., inzh., red.

[Throwing machines] Metatel'nye mashiny. Moskva, Mashinostroenie, 1964. 195 p. (MIRA 17:10)

PANYUKHIN, V.I., kand. tekhn. nauk; ALEKSANDROV, M. P., doktor tekhn. nauk, retsenzent; SAVEL'YEV, Ye.Ya., red.

[Automatic brakes released by the engine of the mechanism] Avtomaticheskie tormoza, razmykaemye dvigatelem mekhanizma. Moskva, Mashinostroenie, 1964. 93 p. (MIRA 17:9)

ALEKSANDROV, M.P.; GUT'YAR, Ye.M., doktor tekhn. nauk, prof., retsenzent

[Braking devices for machinery] Tormoznye ustroistva v mashinostroenii. Moskva, Mashinostroenie, 1965. 675 p. (MIRA 18:7)

ALEKSANDROV, Mikhail Pavlovich; OVSYANNIKOVA, Z.G., red.

[Hoisting and conveying machinery] Pod"emno-transportnye mashiny. Moskva, Vysshaia shkola, 1965. 333 p. (MIRA 18:8)

RADEVA, N.G.; ALEKSANDROV, M.R.

Clinical characteristics of the course of primary cancer of the lung according to data of the therapeutic department of the district hospital in the city of Stara Zagora. Suvrem.med.,Sofia no.11:25-33 '59.

1. Iz Okruzhnata bolnitsa - St. Zagora. Gl. lekar: P. Fuchidzhiev.
(LUNGS neopl.)

RADEVA, N.G.; ALEKSANDROV, M.R.

Clinical observations in combinations of peptic ulcer and hypertension. Suvrem med., Sofia no.6:38-47 '60.

1. Iz Okruzhnata bolnitsa, St.Zagora (Gl. lekar: Fuchedzhiev)
(PEPTIC ULCER compl.)
(HYPERTENSION compl.)

ALEKSANDROV, M. S. Doctor of Medical Science

Formation of an Artificial Vagina with the Sigmoid Flexus

Akusher i Ginekol. #1, 1949

Gynecological Clinic, Inst. imeni Sklifosovskiy

ALEKSANDROV, M.S., doktor meditsinskikh nauk.

Peridural anesthesia in gynecological practice. Sov.med. no.2: 26-29 F '54. (MLRA 7:1)

1. Iz ginekologicheskoy kliniki Moskovskogo gorodskoge nauchno-issledovatel'skoge instituta skoroy pomeshchi im. Sklifosovskoge (direktor M.M.Tarasov). (Gynecology) (Anesthesia)

M.S.

ALEKSANDROV, Mikhail Sergeyevich

[Formation of an artificial vagina from the sigmoid flexure]
Obrazovanie iskusstvennogo vlagalishcha iz sigmovidnoi kishki.
M, Medgiz, 1955 185 p. (MLRA 8:11)
(VAGINA—SURGERY)

ALEKSANDROV, M.S., professor; KOVALEVA-KRYUKOVA, K.I.

Reinfusion in ectopic pregnancy. Akush. i gig. 33 no.2:63-66 Mr-Ap '56. (MLRA 9:7)

1. Iz ginekologicheskoy kliniki (zav.-prof. M.S.Aleksandrov) Instituta imeni Sklifosovskogo

(BLOOD TRANSFUSION
autotransfusion in ectopic pregn. )
(PREGNANCY, ECTOPIC
autotransfusion in)

ALEKSANDROV, Mikhail Sergeyevich

[Surgical treatment of fibromyomas of the uterus; conservative surgery in neoplasms of the uterus] Khirurgicheskoe lechenie fibromiom matki; konservativno-plasticheskie operatsii na matke pri fibromiomakh. Moskva, Medgiz, 1958. 214 p. (MIRA 12:3)
(UTERUS--TUMORS)

MARTYNOVA, V.A.; ALEKSANDROV, M.S., prof.

Preparation of a sterile and stable dicaine solution for peridural anesthesia. Apt. delo 9 no. 4:46-51 Jl-Ag '60. (MIRA 13:8)

1. Laboratorii tekhnologii lekarstvennykh form i galenovykh preparatov TSentral'nogo aptechnogo nauchno-issledovatel'skogo instituta i ginekologicheskaya klinika Instituta im. Sklifosovskogo.

(TETRACAINE)

ALEKSANDROV, M.S.(MOSCOW, USSR)

Konservative and plastische Operationen am Uterus bei Myomen.

Report submitted for the 3rd World Congress, Intl Federation of Gyneology and Obstetrics, Vienna, Austria, 3-9 Sep 1961.

ALEKSANDROV, Mikhail Sergeyevich; SHINKAREVA, Lyidmila Fedorovna; MOLCHANOVA, G.Ya., red.; KUZ'MINA, N.S., tekhn. red.

[Extra-uterine pregnancy] Vnematochnaia beremennost'. Moskva, Medgiz, 1961. 218 p. (MIRA 15:3)
(PREGNANCY, EXTRA-UTERINE)

ALEKSANDROV, M.S., prof.

Late results in 241 cases of colpopoiesis. Akush.i gin. no.4: 83-87 '61. (MIRA 15:5)

1. Iz ginekologicheskoy kliniki (rukovoditel' - prof. M.S. Aleksandrov) Moskovskogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni N.V. Sklifosovskogo (dir. - zasluzhennyy vrach UkrSSR M.M. Tarasov).

(VAGINA--SURGERY)

ALEKSANDROV, M.S., prof.

275 colpopoiesis operations. Vest.khir. no.10:123-127 '61.
(MIRA 14:10)
1. Iz ginekologicheskoy kliniki (rukovod. - prof. M.S. Aleksandrov) Moskovskogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta skoroy pomoshchi im. N.V. Sklifosovskogo (dir. - zasluzh. vrach USSR M.M. Tarasov).
(VAGINA—SURGERY)

ALEKSANDROV, M. S.

"Distribution of Phases of Oscillations
in the Sum of a Harmonic Signal and Noise"
(Vestnik NII MRTP 3(54)/55/36-42) --
RTiE 3/56/334

Scientific Research Institute Ministry of Radio Engineering Industry
(NII MRTP)

ALEKSANDROV, M. S.

"High Frequency Band Amplifier With Negative Feedback" TR. Vses. Zaoch. Energ. In-ta, No 4, 1954, 3-11

Computation of feedback circuit parameters is attempted by using specified characteristics of one stage amplifier. It is shown that with variation of second tube slope the amplification resonance curve and the frequency band-pass may be varied. Two designs of feedback coupling are offered. A variation of the grid bias of the control grid of the second tube allows widening of the frequency band-pass by twofold without effecting the asymmetry of the resonance curve, nor the amplification factor. (RZhFiz, No 11, 1955)

AUTHOR: Aleksandrov, M. S., Candidate of Technical Sciences 30-1-18/39

TITLE: Industrial Exhibition of Radio Engineering and Television (Promyshlennaya vystavka po radiotekhnike i televideniyu).

PERICDICAL: Vestnik AN SSSR, 1958, Vol. 28, Nr 1, pp. 98-100 (USSR)

ABSTRACT: At the exhibition, which took place at Zurich from August 21 to August 28, apparatus of both Swiss and other origin were on show. The Soviet Union was not represented at this exhibition. In the field of measuring apparatus and laboratory equipment the following may described as interesting:
1) A set of apparatus for the accurate measurement of frequencies made by the British firm of Irmac.
2) A set of apparatus for the testing of servomechanisms and for the recording of phase- and amplitude frequency characteristics mad by the British firm of Solartron.
3) A noise developer produced by Rode-Schwarz, Munich.
4) A retranslation television set of 0,5 kW in the antenna, produced by the firm of Roschi, Bern.
5) Oscillographs produced by the American firm of Dumont.
6) A meteorological radiolocation station for aircraft produced by the firm of RCA, U.S.A.

Card 1/2

Industrial Exhibition of Radio Engineering and Television. 30-1-18/39

7) A double-band magnetophone produced by SABA, German Democratic Republic.
This exhibition did not convey any reliable information concerning the present stage of the radio engineering industry in America. No reports were made on the exhibition. The Soviet delegation received permission to visit a number of Swiss Radio plants. Swiss radio engineering industry is characterized by its low production figures; producers build comparatively expensive apparatus which are, however, of high quality and reliable. Many parts are imported. The Swiss Radio industry has much experience in the production of radio sets for use in polar and tropical regions.

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1. Radio-Instrumentation-Exhibition

Card 2/2

Aleksandrov, M.S.

В. И. Хутчо

Стационарные импульсные процессы в статистической радиофизике.

11 июня
(с 18 до 22 часов)

М. С. Александров

Распределение разности фаз колебаний в сумме гармонического сигнала, шума и коррелированной шумовой помехи.

В. С. Фейгинов

Некоторые теоремы конструктивной теории информации для дискретного канала с шумовой памятью.

О. С. Шилов

Определение вероятности ошибки сообщения в транспортированных кодированных с помехами потоках.

Р. Р. Варшамов

Некоторые вопросы теории линейного кодирования

12 июня
(с 10 до 16 часов)

Н. П. Бабич

Системы передачи дискретных сигналов с фазоразностной манипуляцией.

6

В. М. Тихонов

Оптимальный прием сигналов с ЧИМ с [redacted]

Г. И. Рунков,
Г. М. Хавлюков

Свет как канал передачи информации

Г. И. Рунков,
Г. М. Хавлюков

О квантовых флюктуациях электромагнитного поля в свете с импульсной передачей и приеме информации

А. А. Сычев

Некоторые соображения по построению приборов «ВАЛ-КОД»

12 июня
(с 18 до 22 часов)

В. И. Марютин

Групповые передачи знакопеременных сигналов и их преимущества

Л. Д. Кокоцкий

Вопросы потенциальной помехоустойчивости при кодировании сигналов

7

report submitted for the Centennial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications im. A. S. Popov (VNOIRE), Moscow, 8-12 June. 1959

"Phase distribution differential oscillations in conjunction with fluctuating signals, noise and corrected noise interference."

67976

9,3240

SOV/112-59-21-44869

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 21, p 175 (USSR)

AUTHOR: Aleksandrov, M.S.

TITLE: Some Remarks on the Negative Input Resistance of a Cathode Follower

PERIODICAL: Tr. Vses. zaochn. energ. in-ta, 1958, Nr 9, pp 204-214

ABSTRACT: The complex dynamic input resistance of a cathode follower is determined. A qualitative comparison of the circuits of the cathode follower and of the generator, built on a "capacitive 3-point" circuit, is made, which shows the identity of the switching-on circuit of the tube in both cases, and the presence of a negative active input resistance of the cathode follower, which causes self-excitation of the latter. The results obtained specify the character of the complex input resistance for the cathode follower: 1) The input resistance and the input capacitance of the cathode follower depend on the frequency; 2) the active component of the input resistance of the cathode follower is usually negative; 3) the active input resistance for the cathode follower has, on higher

Card 1/2

Some Remarks on the Negative Input Resistance of a Cathode Follower

frequencies, the lowest absolute value and does not depend on the frequency; 4) on lower frequencies the absolute value of the negative active input resistance increases in inverse proportion to the square of frequency; 5) to obtain the maximum possible dynamic active input resistance, a definite relation between the parameters of the circuit and the tube of the cathode follower must be kept.

V.M.L.

BASHARINOV, A.Ye., doktor tekhn.nauk, red.; ALEKSANDROV, M.S., kand.tekhn. nauk, red.; VORONIN, K.P., tekhn.red.

[Reception of pulse signals in the presence of noise; collection of translated articles] Priem impul'snykh signalov v prisutstvii shumov; sbornik perevodnykh statei. Pod red. A.E.Basharinova i M.S.Aleksandrova. Moskva, Gos.energ.izd-vo, 1960. 381 p. (MIRA 14:1)

(Pulse techniques (Electronics))

ALEKSANDROV, M.S.

The IDK instrument for measuring statistical characteristics of random voltages. Prob.i tekh.eksp. no.4:77-81 Jl-Ag '60. (MIRA 13:9)

1. Institut radiotekhniki i elektroniki AN SSSR.
(Electronic measurements)