KOROLEV, F.A.; KULIKOV, O.F.; YAROV, A.S.

Studying the emission and acceleration of electrons in a synchrotron by means of high-speed motion-picture photography. Usp.nauch.fot. 9:192-197 '64.

(MIR: 18:11)

ACC NR: AP7013155 SOURCE CODE: UR/0020/66/171/003/0616/0618

AUTHOR: Bragin, O. V.; Kulikov, O. F.; Liberman, A. L.; Kazanskiy, B. A. (Academician)

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, AN SSSR (Institut organicheskoy khimii AN SSSR); Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Behavior of benzene and some other organic compounds in a focused laser beam

SOURCE: AN SSSR. Doklady, v. 171, no. 3, 1966, 616-618

TOPIC TAGS: laser emission, laser beam, benzene, acrylonitrile, hydrocarbon, chromatography, EPR spectrometry, UV spectroscopy

SUB CODE: 07,20,11

ABSTRACT: The authors study the effect of laser emission on comparatively simple organic molecules which transmit light in the visible region of the spectrum. Benzene, *n*-heptane, cyclohexane, cyclopentane, cyclopentene, 1,2-dichlorocyclopentane and acrylonitrile were studied by exposure to laser emission at room temperature. The experiments were done in hydrogen, air, and a partial vacuum. Chromatographic, ultraviolet and electron

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UDC: 547.532

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ACC NR: AP7013155

paramagnetic resonance analysis showed that elemental dissociation under the effect of laser emission is characteristic for an entire series of organic compounds although the process takes place more easily for some than for others. The authors thank V. I. SHLYAPOCHNIKOV and A. A. SLINKIN for taking and identifying the ultraviolet and electron paramagnetic resonance spectra. [JPRS: 40,351]

Card 2/2

GRIGOR'YAN, G.S.[Hryhor'ian, H.S.], dots.; KISTANOV, Ya.A., dots.; FEFILOV, A.I., dots.; GENKINA, L.S.[Henkina, L.S.], dots.; VASIL'YEV, S.S.[Vasil'iev, S.S.], dots.; SEREBRYAKOV, S.V., prof.; DNEPROVSKIY, S.P.[Dnieprovs'kyi, S.P.], prof.; PIROGOV, P.V.[Pyrohov, P.V.], dots.; GOGOL', B.I.[Hohol', BI.], dots.; SMOTRINA, N.A., dots.; KULIKOV, O.G.[Kulikov, O.H.], dots.; KUZIN, M.I., dots.; DEMIDYUK, V.F.[Demydiuk, V.F.], red.; SKVIRSKAYA, M.P.[Skvyrs'ka, M.P.], red.; LEVCHENKO, O.K., tekhn. red.; SERGEYEV, V.F.[Serhieiev, V.F.], tekhn. red.

[Soviet trade economics] Ekonomika radians'koi torhivli; pid-ruchnyk. [By] G.S.Grigor'ian ta inshi. Kyiv, Derzhpolitvydav URSR, 1962. 500 p. (MIRA 16:11)

(Russia—Commerce)

KULIKOV, O. (Harkov)

New machines for the U.S.S.R. Electrotechnical Industry. Electrotehnica 11 no.2:77 F '63.

KULIKOV, O. (Kharkov)

Automatic lines with circular electric flux. Electrotehnica 11 no.3:111-112 Mr '63.

KULIKOV, O.I.

Glue mixer with a dumping mechanism. Leh.prom. no.3:64 Je - Ag '62.
(MIRA 16:2)

1. Vinnitskaya obuvnaya fabrika im. Shchorsa.
(Vinnitskaya -Shoe industry--Equipment and supplies)

KULIKOV, O. O. (Engineer)

"The Resonance Torsional Machine for Fatigue Testing," pp. 147-177 of the book "Studies on the Strength of Steel," Mashgiz, 1951

Translation W-23621, 21 Aug 52

KULIKOV, O. O.

KULIKOV, O. O. -- "Investigation of the Effectiveness of Surface Hardening Methods for Components, Operating at Variable Torsion." Sub 11 Feb 52, Central Sci Res Inst of Technology and Machine Building.(TsNIITMash). (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Vecharnaya Moskva, January-December 1952

KULIKOV, O.O., kandidat tekhnicheskikh nauk.

Hardenability of 9KhF steel subjected to surface hardening.
[Trudy] TSNIITMASH no.63:128-129 '54. (MLRA 7:9)
(Steel alloys--Hardening)

KULIKOV, O.O., kandidat tekhnicheskikh nauk.

Device for the running in of hollow chamfers of crankshafts. [Trudy] TSNIITMASH no.63:189-195 '54. (MLRA 7:9)
(Cranks and crankshafts)

KULIKOV,O.O., kandidat tekhnicheskikh nauk; BELYANIN,V.A., inzhener

Increasing roller hardness in tinning machines by rolling. [Trudy] TSNIITMASH no.70:163-175 '55. (MLRA 8:11)
(Tinning--Equipment and supplies) (Metal spinning)

KULIKOV, O.O., kandidat tekhnicheskikh nauk.

Studying the relation between an increase in fatigue limit and the properties of the cold worked layer of a smooth shaft in rolling. [Trudy] TSNIITMASH no.74:145-162 '55. (MLRA 9:1)
(Machinery--Testing) (Metals--Fatigue)

Malikov, O. O.
P.1-5

25(2,5) PHASE I BOOK EXPLOITATION SOV/2885

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya

Povysheniye prochnosti elementov konstruktsiy i detaley mashin (Increasing the Strength of Constructional and Machine Elements) Moscow, Mashgiz, 1959. 210 p. (Series: Its: [Sbornik] kn. 91) 5,500 copies printed.

Ed. (Title page): I. V. Kudryavtsev, Doctor of Technical Sciences, Professor; Ed. (Inside book): A. G. Nikitin, Engineer; Tech. Ed.: V. D. El'kind; Managing Ed. for Literature on Transport Machine Building (Mashgiz): K. A. Ponomarev, Engineer.

PURPOSE: This collection of articles is intended for designers, process engineers, and scientific research workers in the machine-building industry.

COVERAGE: The collection contains papers dealing with experimental work done recently by TsNIITMASh. The experiments are concerned with the practical use of surface work hardening in industry. Industrial practices intended to increase the strength and
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service life of machine parts and constructional elements are discussed. Several articles are devoted to problems of increasing the fatigue strength of machine parts by work hardening. Industrial practices of NKMZ in Kramatorsk in external burnishing of large machine parts are presented. Tools and fixtures used in surface work hardening are described. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

after long-time storage are discussed. The significance of residual stresses in increasing the fatigue strength of shafts by surface work hardening is pointed out.

Zavartseva, V. M. [Candidate of Technical Sciences]. Application of the Photoelastic Method of Stress Analysis in the Contact Zone of a Bent Beam With Bearing Clamps 23

Fringe photographs are shown of stress-concentration factors and lines of principal stresses in a cantilever shaft of rectangular cross-section with fitted bearing clamps made of IM-44 (phenolformaldehyde plastic). The stress distribution over contact areas between shaft and clamps is discussed. Conclusions are drawn on the basis of an analysis of the results of an investigation.

Zavartseva, V. M. Photoelastic Determination of Stresses in a Disk With a Keyway Under Uniform Internal Pressure 39

Stresses were determined for disks with one keyway, with

features of these phenomena and factors causing them are discussed

Khayet, G. L. [Candidate of Technical Sciences], D. A. Sten'ko, and B. A. Brusilovskiy, [Engineers]. Practice at the Novo-Kramatorskiy mashinostroitel'nyy zavod (Kramatorsk New Machine-building Plant) in External Burnishing of Large Machine Parts With Rollers 76

The technique of conducting experiments, the geometry of the tool, the principles of selecting the burnishing regime, and the devices used are described and discussed. A table with diagrams of burnished machine parts and data on effects of burnishing is presented.

Kulikov, O.O. Effect of Work Hardening by Burnishing With Rollers and Some Loading Conditions on the Endurance Limit of Sections of Shafts With Press-fitted Machine Parts 95

The difference in behavior under cyclic loads between plain shafts and shafts with press-fitted machine parts is pointed

The investigation described in this article was conducted in order to establish the effect of extensive strain hardening on the fatigue resistance of heat-resistant steels. In addition to fatigue tests, short-time tensile, compression, impact, and hardness tests were taken. The tests were taken at room temperature (20°C) and at elevated temperatures (580°C). The effect of heat treatment on strain-hardened steels and the simultaneous effect of strain hardening and artificial aging were investigated.

The method of investigation and preparation of samples are described. The influence of temperature and external burnishing with rollers, the sensitivity to stress concentration, and the changes in microstructure due to cyclic

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design considerations and operating techniques are discussed.

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S/123/62/000/013/010/021
A004/A101

AUTHORS: Kulikov, O. O., Braslavskiy, V. M.

TITLE: Hardening of large-size parts by surface workhardening

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 29 - 30, abstract 13B181 (In collection: "Kachestvo poverkhnosti detaley mashin. v. 5". Moscow, AS USSR, 1961, 39 - 48)

TEXT: The authors investigate devices for and methods of surface hardening by workhardening which have been developed by TsNIITMASh and the Ural'skiy mashinostroitel'nyy zavod (Ural Mechanical Engineering Plant). A multipurpose roller device, which is mounted on the machine tool, has been developed for the hardening of smooth and projecting shaft parts by rolling. The optimum conditions of hardening by rolling depend on the type of the machine tool used. The feed during rolling is taken equal to 1/10 of the width of the contact trace of the roller on the part. Hardening is effected in one pass at a rotation speed of 30 - 80 m/min. With a pressure on the roller of 6 tons, a workhardened layer of 12 - 14 mm is obtained in grade 45 steel and of 5 - 6 mm in 35XHB (35KhNV) grade steel. In

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Hardening of large-size parts by surface workhardening S/123/62/000/013/010/021
A004/A101

this case the surface hardness is increased by 60 and 30% respectively. The surface hardening of fillets is carried out by rolling with rollers or balls. The rolling of fillets with a radius of up to 5 - 8 mm is successfully carried out on a single-roller device. For fillets with larger radii (up to 12 mm) it is expedient to effect rolling with balls whose diameter is equal to the double radius of the fillet. It is recommended to harden fillets with a radius of from 12 to 100 mm by fullering with strikers developing a high impact energy. A special device has been developed for hardening the fillets of cylinders of powerful presses by fullering with dynamic impact. Hardening by fullering makes it possible to produce a workhardened layer which is up to 25 - 28 mm deep on parts having very large overall dimensions. The authors present sketches of devices for the surface hardening of parts by workhardening. There are 6 figures and 8 references.

E. Spivak

[Abstracter's note: Complete translation]

Card 2/2

L 11[illegible]-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(b)/EWA(d)/EWA(c)
ACC NR: AT6000062 IJP(c) MJW/JD/HW/
EM/DJ/GS SOURCE CODE: UR/0000/65/000/000/0078/0088

AUTHORS: Braslavskiy, V. M.; Kulikov, O. O.

ORG: Conference on Strengthening Machine Parts, Moscow (Soveshchaniye po uprochneniyu detaley mashin)

TITLE: Surface deformation and residual stresses in cold rolling of heavy axles

SOURCE: Soveshchaniye po uprochneniyu detaley mashin. Moscow, 1962. Uprochneniye detaley mashin mekhanicheskim naklepyvaniyem (Work hardening of machine parts); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 78-88

TOPIC TAGS: metal surface, metal hardness, metal hardening, metal deformation, cold rolling, duraluminum, plastic deformation, metal stress, surface hardening, steel

ABSTRACT: The cold rolling treatment of heavy metal bars to produce surface deformations and residual stresses as a result of plastic deformation at the metal surface is discussed. Details of the rolling process are given, including the method of feeding and the type of contact. The sequence of formation and stabilization of the metal "wave" produced in the treatment of a part is explained and diagrammed. Data are presented on the depth of the groove obtained in various rolling treatments on duraluminum and on steels 20, 5, 50, 35KhN, and Kh2N2G. These data are used to obtain an empirical formula $L = 4\sqrt{\frac{P}{H}}$,

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ACC NR: AT6000062

for the width of the groove. Here L is the groove width, P is the rolling force in kilograms, and H is the Brinell hardness of the metal in kg/mm^2. The distribution of surface hardness was studied with respect to the rolling parameters. The dimensions and hardness of the rolled surfaces of several metals are tabulated. The method of Zachs was used to determine tangential and radial residual stresses. Formulae used are

$$\sigma_t = E\left[(F_H - F)\frac{d\varepsilon}{dF} - \frac{F_H + F}{2F}\varepsilon\right],$$

$$\sigma_r = E\frac{F_H - F}{2F}\cdot\varepsilon,$$

where σ_t and σ_r are the tangential and radial stresses respectively, $F = \pi R^2$ is the studied layer's surface area, E is the modulus of elasticity, F_H is the area corresponding to the inner diameter of the disk, and $\varepsilon = f(F)$ is the relative variation of the inner diameter. The effects of various stress categories are shown graphically, and residual stresses occurring in steels 50 and 34KhNIM are compared. Graphs are also presented showing the effect of pressure on hardening and residual stresses. Orig. art. has: 6 figures, 4 tables, and 5 equations.

SUB CODE: 11/ SUBM DATE: 24Apr65/ ORIG REF: 011/ OTH REF: 002

Card 2/2 HW

L 27935-66 EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(b)/ETC(m)-6

ACC NR: AP6017728 IJP(c) JD/DJ SOURCE CODE: UR/0122/66/000/003/0081/0081

AUTHOR: Kulikov, O. O. (Candidate of technical sciences); Nemanov, M. S. (Engineer)

ORG: none

TITLE: Scientific and technical conference on improving the strength and longevity of components

SOURCE: Vestnik mashinostroyeniya, no. 3, 1966, 81

TOPIC TAGS: plastic deformation, surface hardening, metal rolling, bending strength, fatigue strength, metallurgic conference

ABSTRACT: This article is a report on the second scientific conference on improving the strength and durability of machine components by plastic surface deformation which was held October, 1965 in Perm. The conference was organized by the Perm Oblast Board of NTO Mashprom(Scientific and Technical Organization of the Machine Building Industry), the Central Office of Technical Information of the Western Urals Sovnarkhoz, the Central Scientific Research Institute of Technology and Machine Building, the Perm Polytechnical Institute and the Perm Hall of Engineering.

Reports were heard and discussed at the conference on new research in the field of surface hardening by plastic deformation and on technical experience in the use of this technique. Included in these reports were: "New Research in the Field of Surface Hardening of Components by Cold Working" by Doctor of Technical Sciences, Professor I. V. Kudryavtsev (TsNIITMASh, Central Scientific Research Institute of Technology and Machine Building); "Surface Hardening of Machine

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Components by Induction Heating and Rolling" by Candidate of Technical Sciences A. S. Venzhega, Candidate of Technical Sciences M. Ya. Belkin, Engineer G. P. Kalyagina and Engineer L. A. Ryabova(Staro-Kramatorsk Machine Building Plant); "Research on Roller-Hardening the Chamfers of Multistep Rollers" by Candidate of Technical Sciences O. O. Kulikov (TsNIITMASh) and Engineer M. S. Nemanov (Perm Polytechnical Institute); "Combination Method for Increasing the Bending Fatigue Strength of Gear Teeth" by Candidate of Technical Sciences G. Z. Zaytsev (TsNIITMASh); "Increasing the Durability of Helical Springs by Plastic Surface Deformation" by Professor V. P. Ostroumov (Izhevsk Institute of Mechanics) and a number of other reports.

In discussing the reports, mention was made of the need for a reliable and simple method for checking surface quality when the plastic surface deformation is used for hardening. A resolution was made on finding means for further development and more widespread use of this technique for surface hardening. A collection of the materials of the second conference will be published by the Perm Oblast Board of NTO Mashprom and the Perm' Polytechnical Institute in cooperation with TsNIITMASh. [JPRS]

SUB CODE: 11, 20, 13 / SUBM DATE: none

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927420014-2"

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Scientific and technical novelties at the VNITT-All-Union Scientific Research Institute. Elektrotechnika 56 no.1/2:83 F '63.

CHUVIN, V.P.; KULIKOV, O.T., inzh.; LADIN, M.N., inzh.; LATSKIY, V.I., inzh.; ZIMIN, V.A., inzh.; LEVCHENKO, K.P., inzh.; LEVIN, S.S., inzh.; SERGEYEV, V.V., inzh.

"Ural-61" boring machine. Gor.zhur. no.2:53-55 F '64.
(MIRA 17:4)

1. Glavnyy instruktor Magnitogorskogo zavoda gornogo oborudovaniya (for Chuvin). 2. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo oborudovaniya, Sverdlovsk (for Latskiy, Zimin, Levchenko, Levin, Sergeyev).

KULIKOV, P., inzh.; ARBUZOV, N., inzh.-mekhanik; BORISOV, K., inzh.-konstruktor

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1. Tekhnicheskiy otdel Izmail'skogo porta (for Kulikov).

KULIKOV, P.A., inzh.

Experience in using boiler operating on gas and oil.
Teploenergetika 8 no.6:28-30 Je '61. (MIRA 14:10)

1. Azerbaydzhanskaya energeticheskaya sistema.
(Boilers)

KULIKOV, P.B., inzh.

Present-day methods for collecting and treating statistical information and their use in the analysis of the operation of electric current supply systems of electric railroads. Trudy MIIT no.199:27-34 '65. (MIRA 18:8)

KULIKOV, P.G. (Leningrad)

Effect of phenamine on hypnoids. Trudy Gos. nauch.-issl. inst. psikh. 40:291-303 '63 (MIRA 17:8?)

KULIKOV, P.G.

Significance of the piezopulsographic method in the study of vascular reactivity in neuroses. Vop. psikh. nevr. no.10:147-155 '64. (MIRA 18:12)

1. Otdeleniye nevrozov i pogranichnykh sostoyaniy (nauchnyy rukovoditel' - prof. Ye.K.Yakovleva) Leningradskogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta imeni V.M.Bekhtereva (direktor - B.A.Lebedev).

[redacted], V.I.

The manufacture of food and commercial products in the fishing industry Moskva, Pishchepromizdat, 1947. 176 p. (50-37171)

SH335.K6

1. Fishery products.

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Regeneration of used vegetable oil. P. I. Kulikov. *Rybnoe Khoz.* 27, No. 5, 45-6(1951).—Vegetable oil used for cooking shows a gradual rise of acid no. with use. In order to regenerate the oil for further use after a no. of cycles of operations like fish frying, the oil is washed with H_2O, warmed to 70-5°, and neutralized with stirring by means of 20% NaOH (total 3% by wt.) and 10% Na_2CO_3 (5% by wt.). The oil is allowed to settle and after sepn. is ready for further use. The resulting soap floats on top and is readily sepd. The oil after recovery should be washed with hot H_2O and its acidity tested before being sent back to the frying plant. The final product should have acid no. under 1.1.

G. M. Kosolapoff

KULIKOV, P.I.

Scientific-technical conference of workers of the fish processing industry. Biul.tekh.-ekon.inform. no.7:69-70 '61. (MIRA 14:10)
(Fish processing plants)

KULIKOV, P.I.

Technical developments in the fishing industry. Biul.tekh.-ekon.-inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. no.3:45-47 '62. (MIRA 15:5)

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VLASHCHENKO, L.F.; NOVIKOV, V.M.; ZINOV'YEVA, M.M.; SIDOROVA, A.P.; KARDASHOVA, A.A.; KLEYMENOV, I.Ya.; KRASNOPOL'SKIY, N.M. [deceased]; LUKASH, Ye.G.; SAMOFALOV, P.Ye.; YASHINA, Ye.I.; KULIKOV, P.I., dots., retsenzent; MAKAROVA, T.I., kand. tekhn. nauk, retsenzent; MERENBURG, A.N., spets. red.; KOSSOVA, O.N., red.; SOKOLOVA, I.A., tekhn.red.

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Introduction of new equipment in the enterprises of the food industry. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 18 no.1:51-54 Ja '65. (MIRA 18:4)

KULIKOV, Petr Kuz'mich; BUKRINSKIY, V.A., otvetstvennyy redaktor; SLOVOROSOV, A.Kh., redaktor izdatel'stva; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Methods of exploring dislocations of strata] Metody poiskov smeshchennogo kryla plasta. Moskva, Ugletekhizdat, 1956. 31 p. (Coal mines and mining) (MLRA 9:9)

[illegible] V, P. [illegible], [illegible] Cand [illegible] Sci--([illegible]) "[illegible] of [illegible] Prokop'[illegible] [illegible] of [illegible]." [illegible], 19[illegible]. [illegible] pp ([illegible] Order of Labor and Banner Polytec' Inst [illegible] [illegible], [illegible] of [illegible]), [illegible] copies (KL, 21-[illegible], 1[illegible])

KULIKOV, P.K.

Tectonics of the western part of Prokop'yevsk District in the Kuznetsk Basin. Izv. TPI 90:174-185 '58. (MIRA 12:2)

1. Predstavleno professorom doktorom A.A. Belitskim.
(Prokop'yevsk District--Geology, Structural)

KULIKOV, P.K.

Re-examining the properties of Kuznetsk coals used in power engineering. Razved.i okh.nedr 25 no.11:23-24 N '59. (MIRA 13:5)

1. Kombinat Kuzbassugol'.
(Kuznetsk Basin--Coal)

KULIKOV, P.K.

Conditions for the formation of juncture structures of zones of folding of different age. Dokl. AN SSSR 148 no.6:1368-1369 F '63. (MIRA 16:3)

1. Tyumenskiy filial Sibirskogo nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya. Predstavleno akademikom A.A.Trofimukom.

(Geology, Structural)

KULIKOV, P.K.

Determining the positions of massive formations on the basis of their fracturing. Izv. vys. ucheb. zav.; geol. i razv. 7 no.9:123-124 S '64. (MIRA 17:10)

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ANAPREYCHIKOV, V.V.; KULIKOV, P.P., starshiy inzhenor

What should a signaling and communications district be like?
Avtom., telem. i sviaz' 5 no.3:16 Mr '61. (MIRA 14:9)

1. Nachal'nik Leningrad-Baltiyskoy distantsii signalizatsii i svyazi Oktyabr'skoy dorogi (for Anapreychikov). 2. Otdel signalizatsii i svyazi Buyskogo otdeleniya Severnoy dorogi (for Kulikov).
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LEVIN, V.Ya., otv. red.; STAROBINSKIY, M.M., otv. red.; KULIKOV, P.S., red.

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[Power metal cutting] Silovoe rezanie metallov. Kuibyshevskoe knizhnoe izd-vo, 1953. 76 p. (MIRA 12:3)

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(Metal cutting)

GUSEV, Ignat Fedorovich, strogal'shchik; KULIKOV, P., red.; SPIRIDONOV, N., tekhn.red.

[Machining metals by planing] Stroganie metallov silovym metodom. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1954. 29 p.
(MIRA 12:8)

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FOMIN, Kirill Alekseyevich, tokar'; KUZ.IKOV, P.S., redaktor; KOSYKH, S.I., tekhnicheskiy redaktor

[Rapid cutting of screw threads on screw-cutting lathes equipped with thread indicators] Skorostnoe narezanie rez'b na tokarno-vintoreznom stanke s primeneniem rez'boukazatelia. [Kuibyshev] Kuibyshevskoe knizhnoe izd-vo, 1956. 24 p. (MLRA 10:9)
(Screw cutting)

BOIUNGEN, I.N., inzh.; VINOGRADOV, K.V., inzh.; VELLERSHTEYN, A.L., inzh.; GOL'DGOF, B.G., inzh.; KUZ'MIN, V.S., inzh.; KULIKOV, P.S., inzh.; LEBEDEV, N.N., inzh.; LEVI, S.S., kand.tekhn.nauk; ROZANOV, M.S., inzh.; SIDOROV, V.N., inzh.; SOKOLOV, D.V., inzh.; SLONIM, N.M., inzh., laureat Stalinskoy premii; EPSHTEYN, A.L., inzh.; ANTRUSHIN, B.D., inzh., nauchnyy red.; SIMAKOV, S.N., inzh., nauchnyy red.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINEVICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; ZIMIN, P.A., red.; VDOVENKO, Z.I., red.izd-va; SHIROKOVA, G.M., red.izd-va; EL'KINA, E.M., tekhn.red.

[Power engineering handbook for construction work] Spravochnik energetika na stroitel'stve. Izd.2., perer. i dop. Pod red. N.N. Lebedeva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 736 p. (MIRA 13:11)
(Power engineering)

137-1958-3-4919

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 66 (USSR)

AUTHOR: Kulikov, P. V.

TITLE: Production of Crude Bronze in Shaft Furnaces in Conjunction With the Blowing of Converters (Polucheniye chernovoy bronzy v shakhtnykh pechakh s produvkoy v konverterakh)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 13, pp 19-22

ABSTRACT: In 1952 a special shaft furnace was constructed for processing of return slags with resulting production of crude bronze. The furnace was rectangular in cross section, with a 2 m^2 area occupied by 12 tuyeres (each 150 mm in diameter) situated at a height of 4 m above the charge opening and an 0.6 m deep hearth. The crude bronze was discharged directly from the hearth into the molds, while the slags were channeled into a settling tank. The pressure of the blast was equivalent to 300 mm H_2O. The composition of the charge was as follows: 22 percent coke, 73-70 percent converter slag, 18-17 percent anodic slag, 4.5 - 8.7 percent limestone, and 4.5 - 4.3 percent quartz. It was proposed that in the future the crude bronze be smelted in basic shaft furnaces periodically and without any interruptions of the basic process,

Card 1/2

Production of Crude Bronze in Shaft Furnaces (cont.)

and that it then be cast by means of slag-casting equipment. This procedure reduced the number of operating personnel and eliminated unnecessary moving of the entire supply of raw material. The smeltings were carried out on acidic slags composed of 2.5 percent SiO_2, 35 percent FeO, and 7 percent CaO. The blast pressure was approximately 800 mm H_2O. In order to prevent freezing of the slags, bimetal was introduced into the charge; this increased the FeO content to 40-42 percent, and reduced the SiO_2 content to 20-23 percent. The blast pressure was raised to 1100 mm H_2O. The furnace was loaded daily with 7-9 bronze charges, composed of 2000 kg of coke, 4000 kg of anodic slag, 1800 kg of return slag, 2000 kg of converter slag, 500 kg of regenerator Cu, 800 kg of bimetal, 350 kg of limestone, and 250 kg of quartz. The smelting time was reduced from 24.46 hrs in 1952 to 15.82 hrs in 1956. The average composition of bronze and slags is shown in a tabular form.

G. S.

Card 2/2

KULIKOV, P.YE.

SOKOLOV, D.Ya., doktor tekhnicheskikh nauk; VARKHOTOV, T.L., inzhener; KULIKOV, P.Ye., inzhener; FLEKSER, Ya.N., kandidat tekhnicheskikh nauk; MELITSIN, M.V. inzhener, redaktor; SAFONOV, P.V., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor.

[Collection of drawings of hydrotechnic installations in rural hydroelectric power stations] Atlas gidrotekhnicheskikh sooruzhenii sel'skikh gidroelektrostantsii. Moskva, Gos.izd-vo litry po stroit. i arkhit., 1956. 53 plans. (MLRA 10:6)

(Hydroelectric Power Stations)

EBIN, L.Ye.; GANELIN, A.M.; GILINSKIY, A.M.; GORNOVESOV, G.V.; ZLATKOVSKIY, A.P.; KAUFMAN, B.M.; KISELEV, N.A.; KULIKOV, P.Ye.; LEVIN, M.S.; SLAVIN, M.P.; SMIRNOV, B.V.; SMIRNOV, V.I.; SMIRNOVA, I.S.; TARASOVA, V.Ye.; CHEBOTAREV, V.I.; SHATS, Ye.L.; ENTIN, I.A.; IOSIPYAN, S.G., redaktor; SARKISYAN, A.M., redaktor; SMIRENSKIY, M.D., redaktor; TEPLITSKIY, Ya.S. redaktor; KOMAROVA, V.M., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor.

[Rules for the operation of electric installations in rural areas] Pravila tekhnicheskoi ekspluatatsii sel'skikh elektroustanovok. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957. 183 p. (MLRA 10:4)

1. Russia (1923- U.S.S.R.) Glvanoye upravleniye sel'skikh elektrostantsii.
(Electric power plants) (Electricity in agriculture)

KULIKOV, Petr Yegorovich, inzh.; RABINOVICH, Naum Isayevich, inzh.; ROZHANSKIY, G.S., dotsent, kand.tekhn.nauk, retsenzent; CHESNOKOV, A.V., inzh., retsenzent; KRYUKOV, V.L., inzh., red.; NAKHIMSON, V.A., red.izd-va; UVAROVA, A.F., tekhn.red.

[Operation of farm irrigation pumping stations] Ekspluatatsiia sel'skikh orositel'nykh nasosnykh stantsii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 157 p. (MIRA 12:4)
(Irrigation) (Pumping machinery)

SITKOVSKIY, P.A.; KOMAROV, G.V.; BRUSENTSEV, V.F.; KREMENETSKIY, N.N.; MAMAYEV, M.G., kand.tekhn.nauk; SMIRNOV, A.V., kand.tekhn.nauk; AFANAS'YEV, I.V.; VOLOD'KO, I.F., kand.tekhn.nauk; BEGLYAROV, S.A.; KONDRAT'YEV, V.V.; KARLINSKAYA, M.I.; NIKOLAYEV, M.I., kand.tekhn. nauk; DOROKHOV, S.M.; PISHCHUROV, P.V.; KLIMENTOVA, A.V.; ROZENBLAT, Zh.I.; PANDEYEV, V.V., kand.tekhn.nauk; KULIKOV, P.Ya.; SHIMANOVICH, S.V.; DELITSIN, M.V., retsenzent; BRAUDE, I.D., retsenzent; BARYSHEV, A.M., retsenzent; GRIGORYANTS, A.S., retsenzent; IGNATYUK, G.L., retsenzent; KALABUGIN, A.Ya., retsenzent; KREMENETSKIY, N.D., retsenzent; POPOV, K.V., retsenzent; ORLOVA, V.P., red.; LETNEV, V.Ya., red.; SOKOLOVA, N.N., tekhn.red.; FEDOTOVA, A.F., tekhn.red.

[Handbook for hydraulic and agricultural engineers] Spravochnik gidrotekhnika melioratora. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 766 p. (MIRA 12:3)

(Hydraulic engineering) (Agricultural engineering)

KOTENEV, Ivan Vasil'yevich, insh.; ORAKHELASHVILI, M.M., kand.tekhn. nauk, retsenzent; KULIKOV, P.Ye., insh., red.; AVSHAROVA, Ye.G., red.izd-va; ML'KIND, V.D., tekhn.red.

[Improvement in the performance of Kaplan turbines in agricultural hydroelectric power plants] Uluchshenie raboty propellernykh turbin sel'skikh gidroelektrostantsii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 116 p. (MIRA 12:9)
(Hydraulic turbines) (Hydroelectric power plants)

KULIKOV,S.A.; YAKOVLEVA,A.V.

A fluorite vacuum monochromator. Izv. AN SSSR. Ser. fiz. 19 no.1:86-87 Ja-F '55. (MLRA 8:9)
(Spectrum analysis) (Spectrometer)

24(7) PHASE I BOOK EXPLOITATION SOV/1700

Lvov. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii, 1956. t. II: Atomnaya spektroskopiya (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol 2: Atomic Spectroscopy) [Lvov] Izd-vo L'vovskogo univ., 1958. 568 p. (Series: Its: Fizicheskiy sbornik, vyp. 4(9)) 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Resp. Ed.); B.S. Neporent, Doctor of Physical and Mathematical Sciences; I.L. Fabelinskiy, Doctor of Physical and Mathematical Sciences; V.A. Fabrikant, Doctor of Physical and Mathematical Sciences; V.G. Koritskiy, Candidate of Technical Sciences; S.M. Rayskiy, Candidate of Physical and Technical Sciences; L.K. Klimovskaya, Candidate of Physical and Mathematical Sciences; V.S. Miliyanchuk (Deceased), Doctor of Physical and Mathematical Sciences; A.Ye. Glauberman, Doctor of Physical and Mathematical Sciences; Ed.: S.L. Gazer; Tech. Ed.: T.V. Saranyuk.

PURPOSE: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

COVERAGE: This volume contains 177 scientific and technical studies of atomic spectrography presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables, and atlases of spectral lines, spark spectrographic analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochemistry in metallurgy, and principles and practice of spectrochemical analysis.

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Materials of the 10th All-Union Conference (Cont.) SOV/1700

Card 10/31

GERASIMOVA, N.G.; IVANOVA, M.K.; KULIKOV, S.A.; LOMONOSOVA, T.N.; YAKOVLEVA, A.V.

Investigating the reflection and transmission of various materials in the vacuum ultraviolet. Fiz.sbor. no.4:146-148 '58. (MIRA 12:5)

(Ultraviolet rays) (Reflection (Optics))

AKSENOVICH, G.I.; GAL'PERIN, Ye.I.; ZAYONCHKOVSKIY, M.A.; KULIKOV, S.A.

Recording the moment of explosion in deep seismic prospecting.
Razved. i prom.geofiz. no.23:21-30 '58. (MIRA 11:12)
(Prospecting--Geophysical methods)

GERASIMOVA, N.G., KULIKOV, S.A.

Vacuum monochromators and some measurements in the ultraviolet range of the spectrum. Opt.-mekh.prom. 25 no.1:17-24 Ja '58. (MIRA 11:7)

(Monochromators) (Spectrum, Ultraviolet--Measurement)

S/051/62/013/005/017/017
E032/E414

AUTHOR: Kulikov, S.A.

TITLE: Conference on the apparatus and methods of investigation used in the vacuum ultraviolet

PERIODICAL: Optika i spektroskopiya, v.13, no.5, 1962, 754-755

TEXT: The above conference was held in Leningrad between May 17 and 19, 1962. 150 Delegates took part and 32 papers were read including the following: G.P.Startsev et al: Description of three vacuum spectrometers [two-meter, normal incidence spectrograph СП-99 (SP-99) for the region 500 to 3000 Å, the plane-grating spectrograph СП-104 (SP-104) for the region from 1100 Å to the visible and the ВМ-140 (VM-140) monochromator (oblique incidence) for the 200 to 1500 Å region]. M.Ye.Akopyan, I.I.Balyakin, F.I.Vilesov: The ВМ-3 (VM-3) vacuum monochromator with a 1.5 m diffraction grating and its use in the 1050 to 4000 Å region. N.G.Gerasimova and G.P.Startsev: Detailed study of the image quality of the 1 m diffraction monochromator ВМ-70 (VM-70). A.Ye.Kolesnikov, V.V.Krasavin, N.A.Pavlenko and G.P.Startsev: Description of a fast, six-channel vacuum

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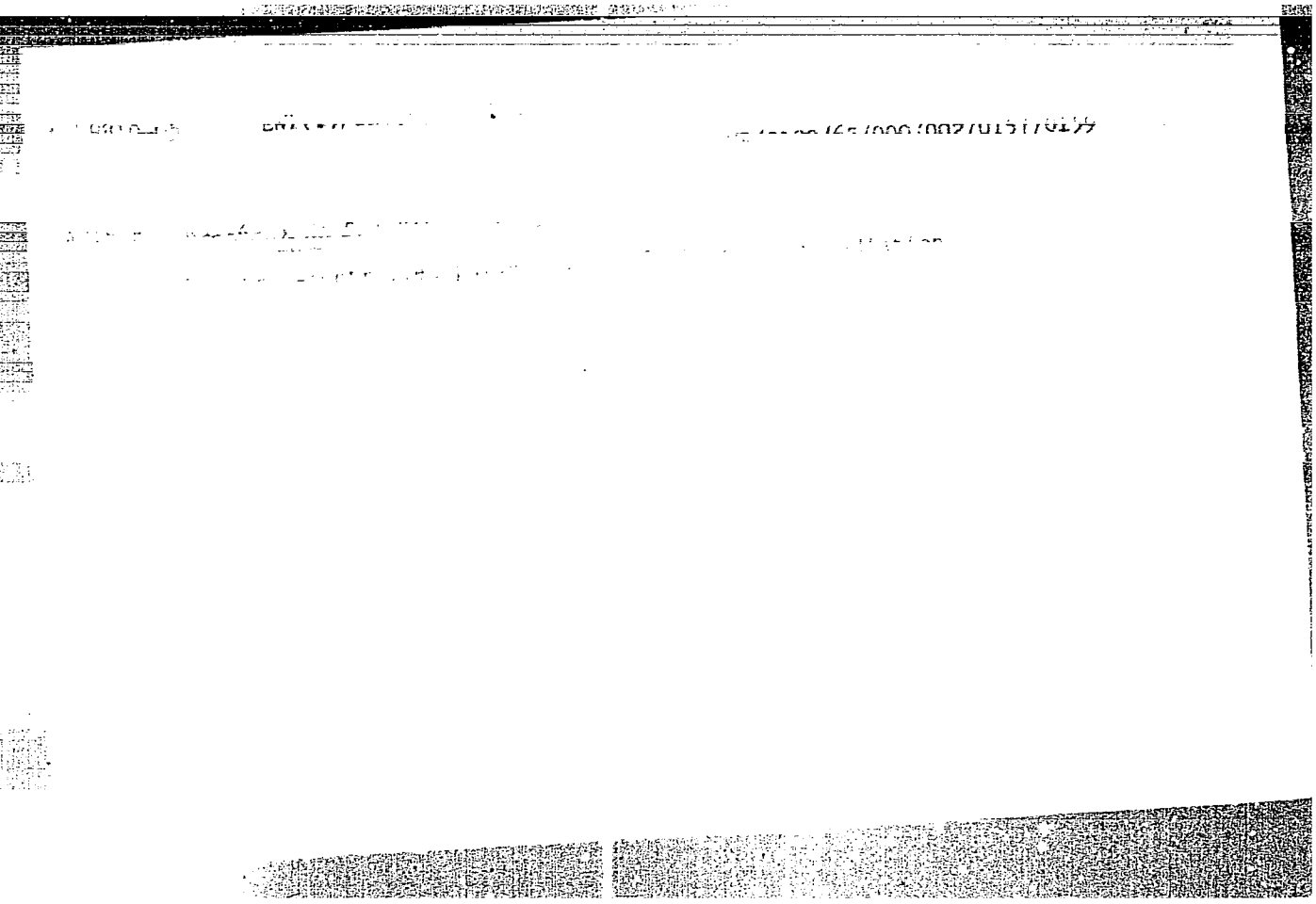
spectrometer for the 200 to 2000 Å region. A.N.Zaydel': Exploitation of the ДФС-5 (DFS-5) and ДФС-5 (DFS-6) spectrographs and their main disadvantages. T.A.Klimova, S.A.Orlova, Yu.V.Romanova, M.G.Fridman and R.I.Tveryankina: New vacuum spectrometers developed by the GOMZ Works [ДФС-31 (DFS-31), СП-68 (SP-68), ВМР-1 (VMR-1)]. F.M.Gerasimov and S.S.Naumov: Technology of preparation of aluminium and glass gratings for vacuum spectrometers. S.A.Kulikov and V.G.Nikitin: Method of studying the efficiency of diffraction gratings. A.P.Lukirskiy and Ye.P.Savinov: Working conditions for diffraction gratings and the reflecting power of glass and titanium-covered surfaces for ultrasoft X-rays. M.K.Ivanov and G.P.Startsev: Apparatus for depositing aluminium films protected by magnesium-fluoride films. E.I.Levitina: Chemical methods of improving the stability and reflectivity of aluminium mirrors. O.M.Sorokin: Indium, tin and aluminium film filters for the region below 1200 Å. S.A.Kulikov, Yu.A.Snigirev and G.P.Startsev: A pulse-operated coaxial light source giving continuous emission in the vacuum ultraviolet. N.S.Sventitskiy and L.N.Kaporskiy: Possible applications of a low-voltage vacuum light source and the effect of the parameters

of the discharge circuit on the nature of the spectrum. L.N.Kaporskiy, F.Z.Pedos and E.I.Shlepkov: Spectral-line catalogues for carbon, silicon, iron, aluminium, copper phosphide and sulphur for the vacuum ultraviolet. S.A.Yakovlev: A xenon lamp emitting the resonance line 1470 Å. Ye.I.Krasnova and A.V.Yakovleva: Measurement of the relative line intensities in the nitrogen multiplets at 1492 to 1745 Å. V.A.Arkhangel'skaya and G.S.Ivanov-Kholodnyy: An instrument for the determination of solar radiation energy, incorporating a thermal luminescence phosphor. A.M.Tyutikov: Secondary-emission multipliers (conditions of operation and analysis of errors). O.M.Sorokin and A.M.Tyutikova: Control of the long-wavelength part of the spectral characteristics of the photocathode of secondary-emission multipliers with the aid of dielectric coatings. Yu.A.Shuba, A.A.Guzhev, N.P.Shabakov and V.L.Makarov: Spectral characteristics of the photocathodes of secondary-emission multipliers incorporating semiconductor and dielectric coatings. M.A.Rumsh: Operation of secondary-emission multipliers in the range 300 to 1.5 Å. I.T.Zhukov and I.P.Zapesochnyy: Photo-electric apparatus for the determination of the optical

excitation functions in the vacuum ultraviolet. N.G.Morozov and G.P.Startsev: Determination of the relative spectral sensitivity of photographic materials in the range 1000 to 2800 Å. V.M.Uvarov: New photographic materials produced by NIKFI for the vacuum ultraviolet. A.V.Yakovlev, V.A.Arkhangel'skaya, N.G.Gerasimov and T.V.Razumov: Methods of measuring the relative and absolute energy in the vacuum ultraviolet. The vacuum spectrographs ДФС-5 (DFS-5 and ДФС-6 (DFS-6) did not satisfy modern requirements. It was recommended that new spectrometers for the vacuum ultraviolet should be developed and mass-produced.



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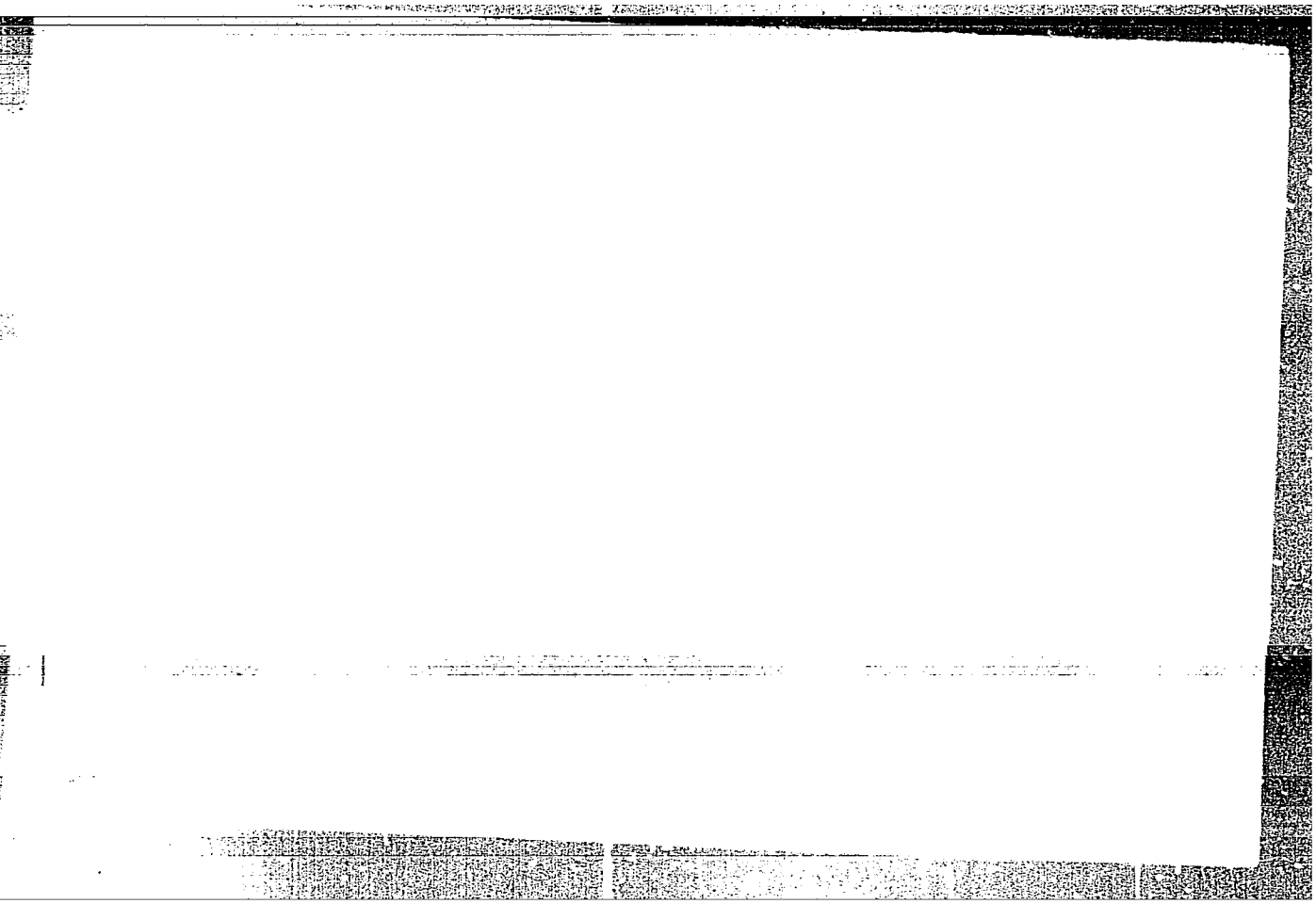

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L 3891-66 EWT(1)

ACCESSION NR: AP5017494 UR/0368/65/002/006/0546/0549

535.33:535.89

AUTHOR: Krasavin, V. V.; Kulikov, S. A.; Mishchenko, Ye. D.; Startsev, G. P.

TITLE: Measurement of the density of the radiation spectrum of a pulsed source in the far ultraviolet region

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 6, 1965, 546-549

TOPIC TAGS: UV spectroscopy, emission spectrum, flash lamp

ABSTRACT: This is a continuation of earlier work by the authors (PTE No. 2, 138, 1965) on measurements of the spectrum below 100 nm, where the radiation from a pulsed source with repetition frequency 50 cps and duration 2--3 μsec was described. The original apparatus employed an FEU-29 photomultiplier with a luminescent sodium salicylate screen, and the average current was measured with a microammeter (M-59). In the present investigation the apparatus was improved by using a more sensitive photomultiplier (FEU-39) and replacing the microammeter with an automatic recording peak voltmeter. The recording circuit consists of two blocks, a cathode follower with a set of integrating cells, and the peak voltmeter with its independent power supply. The peak voltmeter circuit is briefly described and a sample of the spectrum in the 90--20 nm region is given. The described circuit has high sensitivity

Card 1/2

L 3891-66
ACCESSION NR: AP5017494

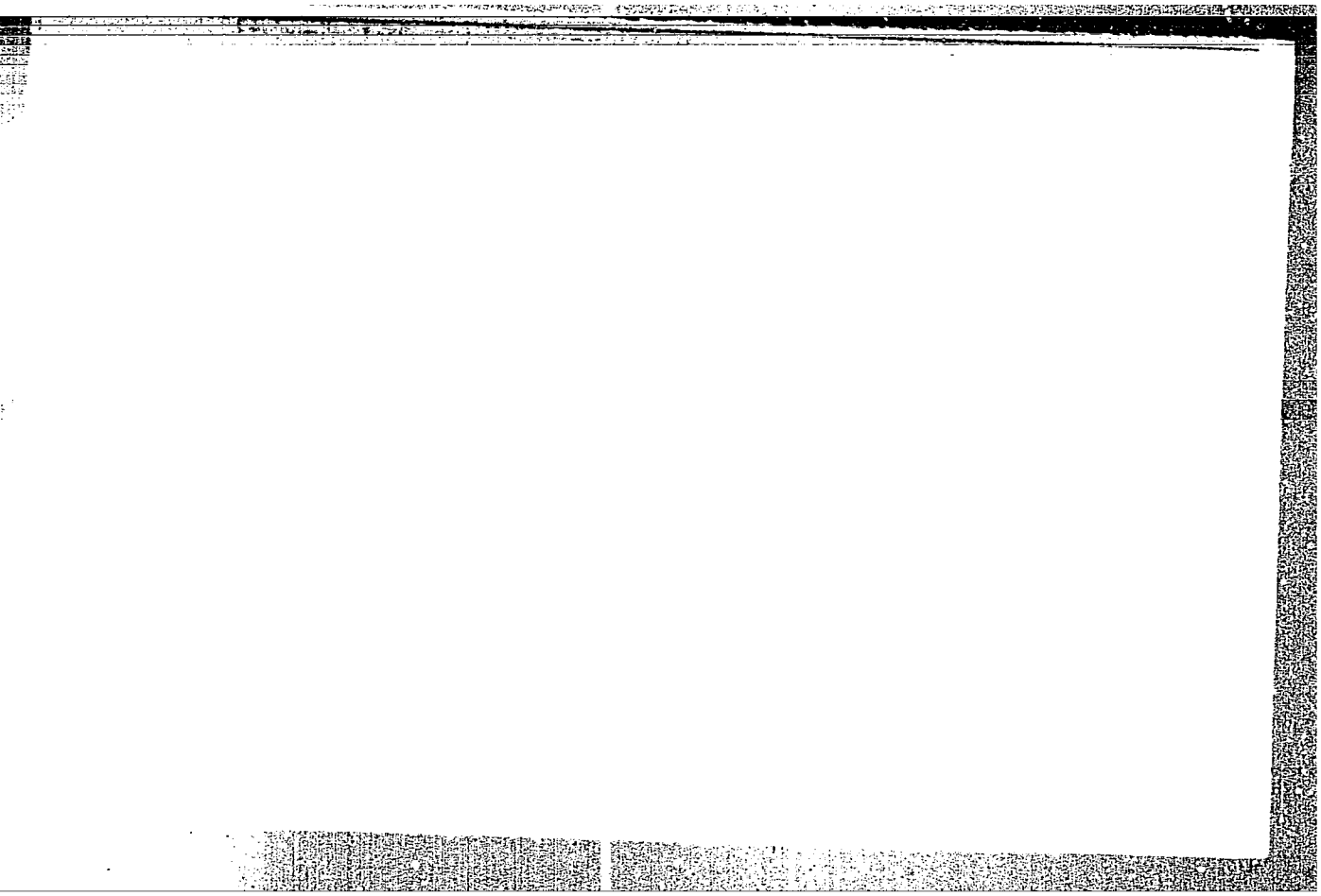
and a resolution of 0.01 nm over the entire region of the spectrum. Orig. art. has: 2 figures and 3 formulas.

ASSOCIATION: none

SUBMITTED: 03Sep64 ENCL: 00 SUB CODE: OP

NR REF SOV: 002 OTHER: 002

Card 2/2



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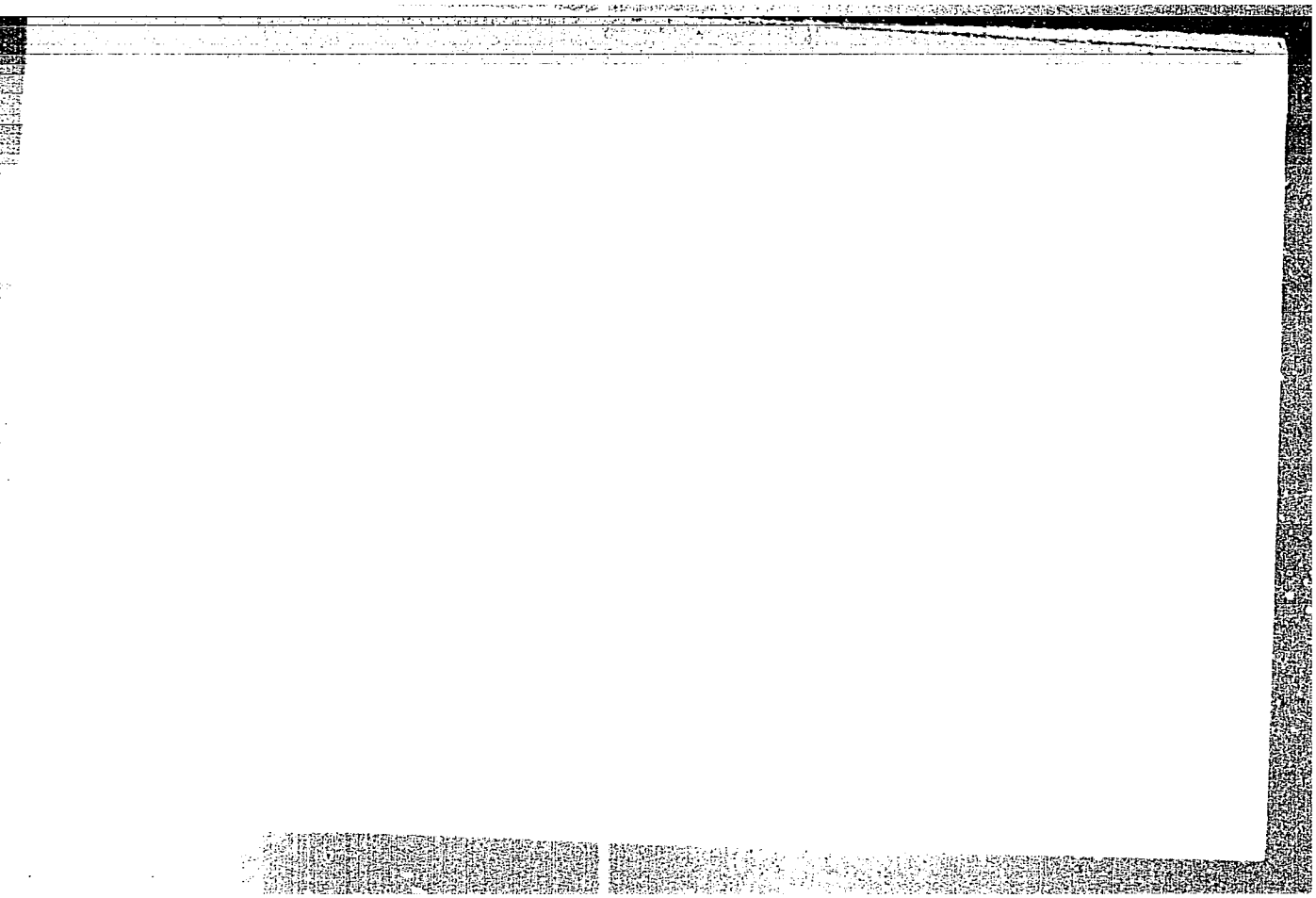
L 63551-65

ACCESSION NR: AP5016838



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927420014-2"

L 26604-66 EWT(1)

ACC NR: AP6010451 SOURCE CODE: UR/0368/66/004/003/0267/0269

AUTHORS: Mishchenko, Ye. D.; Kulikov, S. A.; Startsev, G. P.

ORG: none

TITLE: Cathodoluminescent receiver of the open type for short wave ultraviolet radiation 58 8

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 3, 1966, 267-269

TOPIC TAGS: cathodoluminescence, uv radiation, uv receiver, electron multiplier, secondary electron emission, luminophor, quantum yield

ABSTRACT: The authors describe a radiation receiver which begins to operate stably at pressures 1 N/m^2 at relatively low supply voltage, of the order of 600 V. At 200 V its sensitivity becomes equivalent to that of a secondary electron multiplier of the open type. The receiver is based on the principle of electronic conversion of light, wherein the ultraviolet radiation incident on the cathode knocks out electrons that are focused by an immersion objective onto a cathode

Card 1/3 UDC: 621.383.4

L 26604-66
ACC NR: AP6010451

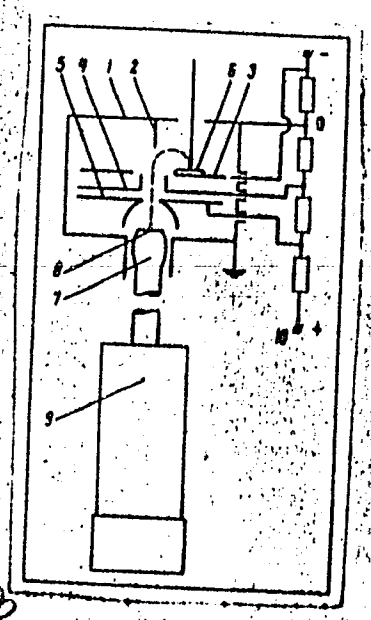


Fig. 1. Diagram of radiation receiver. 1 -- Brass cylinder, 2 -- focusing rod, 3 -- control electrode, 4 -- focusing diaphragm, 5 -- anode, 6 -- cathode, 7 -- light pipe, 8 -- cathode luminophor, 9 -- photomultiplier, 10 -- high voltage terminal.

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luminophor. The glow of the luminophor excited by the electrons is recorded with a photomultiplier. The main difference between this receiver and the scintillation receiver is the use of an efficient luminophor and the absence of an aluminum layer on the luminophor. The photocurrent is linearly related to the incident light flux and its sensitivity depends on the voltage applied to the electrodes. The sensitivity depends little on the pressure. By using different luminophors it is possible to modify the properties of the receiver for individual applications (registration of constant and pulsed light flux without afterglow, registration of pulsed light fluxes against the background of strong electric interference, and others). The spectral dependence of the quantum yield can be modified by using different cathodes. Orig. art. has: 3 figures, 1 formula, and 1 table.

SUB CODE: 20/ SUBM DATE: 24Feb65/ OTH REF: 003

KULIKOV, S.F.

4

USSR

1003. **Distribution of anabasine between benzene and saturated aqueous solutions of sodium sulphate.** *Kh. R. Rakhimov, S. F. Kulikov and S. N. Nabikhodzhaev* (*Dokl. Akad. Nauk Uzb. SSR*, 1953, [9], 19–21; *Referativnyi Zh., Khim.*, 1954, Abstr. No. 33,622).—The solubility of anabasine in 1 M Na_2SO_4 soln. at 25° C is 1·2 per cent. by wt. and in 1·5 M Na_2SO_4 soln. it is 0·75 per cent. When 1·5 M Na_2SO_4 is added to alkaline soln. of anabasine sulphate, 97 per cent. of the anabasine separates; a single extraction with benzene separates 99·05 per cent. of the anabasine.

E. HAYES

(2)

KULIKOV, S. G., inzh.; SHIKUNOV, Ya. S., inzh.

Automatic conveying of fabric pieces. Mekh.i avtom.proizv. 18 no. 5:18-20 My '64. (MIRA 17:5)

15-57-4-4848

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 116 (USSR)

AUTHOR: Kulikov, S. I.

TITLE: Sedimentary Manganese Ores of the Middle Maykopian in the Northern Caucasus (Osadochnyye margantsovyye rudy srednego Maykopa na Severnom Kavkaze)

PERIODICAL: Vopr. mineralogii osadoch. obrazovaniy. Books 3-4. L'vov, L'vovsk. un-t, 1956, pp 227-232

ABSTRACT: Data are given on the geology and mineralogy of the Labinsk manganese deposit. Mineralization is associated with the arenaceous and arenaceous-argillaceous stratum of the middle Maykopian. There are two types of rocks: carbonate-bearing and oxide-bearing. Each type is subdivided into two forms on the basis of appearance, compositon, and origin. Carbonate rocks are classed as massive bedded and friable concretional

Card 1/2

Sedimentary Manganese Ores (Cont.)

nodular; the oxide rocks are classed as dense (massive-cavernous, thin-laminated, and conchoidal-nodular) and friable-earthy. The carbonate ores have concretional, oolitic, spherolitic, crystalline, and fragmented textures. The oxide ores have collomorphic, concentric-zonal, cemented and cellular structures. Mineralogically, the carbonate rocks are represented by rhodochrosite, Ca, Mg, and Fe-rhodochrosite, and manganosiderite. In composition the oxide ores are predominantly psilomelane; very rarely pyrolusite, vernadite, Fe oxides and hydroxides; Ca, Al, and Fe sulfates are also encountered. The deposition of ores occurred in the marine shoal water in the area of the subaqueous part of the delta of an ancient river. The processes of diagenesis played an important part in the formation of the deposit.

Card 2/2

S. I. B.

KULIKOV, S.I.

Mineralization in the sedimentary formation of the middle Maykop in the Northern Caucasus. Izv. vys. ucheb. zav.; geol. i razv. 2 no.7:27-36 Jl '59 (MIRA 13:3)

1. Novocherkasskiy politekhnicheskiy institut.
(Caucasus, Northern--Mineralogy)

KULIKOV, S. I.

"Die Akustischen Verhältnisse Während der Mittagspause und die Gehorsfunktion bei Arbeitern Lärmhafter Betriebe," Zhur. Fiz., Vol.28, No.1, pp 113-122, 1940

KULIKOV, S.I.

10(0); 18(0); 25(0) PHASE I BOOK EXPLOITATION SOV/2035

Ufa. Aviatsionnyy institut

Trudy, vyp. 2. (Transactions of the Ordzhonikidze Aviation Institute, Ufa) Nr 2. Ufa, Bashkirskoye knizhnoye izd-vo, 1956. 219 p. Errata slip inserted. 1,000 copies printed.

Editorial Board: I.P. Yemelin (Resp. Ed.), A.N. Rakhmanovich, I.A. Bolotovskiy, S.I. Kulikov, I.A. Berezin, V.A. Vinogradov, and P.D. Mirko; Resp. Ed. for this number: I.A. Bolotovskiy; Ed. of Publishing House: M.A. Gurvich; Tech. Ed.: F.G. Gayfullin.

PURPOSE: The book is intended for engineers of scientific and industrial institutions.

COVERAGE: This collection is composed of a number of unrelated articles in mechanical, aeronautical (fluid dynamics), metallurgical and other branches of engineering. For further coverage see Table of Contents.

Galimkhanov, K.G. Torsion Analysis of Shafts With Single Flat Milled Recesses 45

This article gives a solution to problems of torsion in circular section shafts having single flat segmental recesses. The method applied to this solution is similar to that described by the author in Trudy Ufimskogo aviatsionnogo instituta, Nr 1, 1955. There are 2 Soviet references.

Kulikov, S.I. Distribution of Circumferential Stresses Between Splines of a Splined Joint 63

This article describes the distribution of circumferential stresses between the splines of a splined joint. Formulas for the determination of transmitted circumferential stresses of the maximum loaded pair of splines are established on the principle that clearances between stressed splines of the shaft and sleeve change according to a sinusoidal law. Data obtained can be applied in designing primary splined joints (assemblies). There are 5 Soviet references.

Mavlyutov, R.R. Efficiency of Fast-moving Belt Transmissions 75

This article considers aspects of losses and their influence on efficiency of plane belt transmission. Special attention was given to aerodynamic losses in belts and pulleys in view of the considerable effect produced by them on general efficiency of fast moving transmissions and to internal losses which have a decisive effect on the length of life of the belt. For the purposes of checking the accuracy of the obtained data experimental research was supplemented to the theoretical. The following personalities working in this field are mentioned: Ye.M. Gut'yar, N.T. Urazbayev, V.N. Belyayev, B.A. Propin. There are 8 references: 7 Soviet, and 1 German.

Vol'man, B.L. Increasing the Accuracy of Mechanical Integration and Solution of Common Differential Equations by Means of Impulse Link-rake Integrator 93

The article deals with research on mechanisms for accurate approximate integration and differentiation based on new principles of simulation (modeliy). A detailed description is given with diagrams of the integrator. Personalities mentioned include: M.L. Bykhovskiy and N.G. Bruyevich. There are 8 Soviet references.

Osipov, A.T. Influence of the Nonuniformity of the Structure and Elastic Properties of Pig Iron on the Quality of Piston Rings 111

The article discusses some important problems of piston ring technology and establishes the causes of qualitative irregularity of piston rings.

Interesov, M.Ye. Investigation of the Viscosity of Liquid Pig Iron Depending on Chemical Composition and Temperature of Heating 125

The article describes a method of obtaining experimental data on the viscosity of pure double ferrocarbon alloys and triple alloys of iron. It also discusses determination of viscosity of various pig irons, such as, Bessemer, open hearth and cast irons. Personalities mentioned include: A.I. Bachinskiy, Professor A.M. Samarin, and L.A. Shvartsman. There are 11 references: 7 Soviet and 4 German.

18(0); 25(0); 10(6) PHASE I BOOK EXPLOITATION SOV/1993

Ufa. Aviatsionnyy institut

Trudy Vyp. 3 (Transactions of the Ordzhonikidze Aviation Institute, Ufa) Nr 3. Ufa, Bashkirskoye knizhnoye izd-vo, 1957. 222 p. Errata slip inserted. 1,000 copies printed.

Resp. Ed. for this no.: I.A. Bolotovskiy; Editorial Board: I.P. Yemelin (Resp. Ed.), A.N. Rakhmanovich, I.A. Bolotovskiy, S.I. Kalikov, V.A. Vinogradov, and F.D. Mirko; Ed.: M.A. Gurvich; Tech. Ed.: F.G. Gayfullin.

PURPOSE: The book is intended for engineers and scientific workers in the fields of metallurgy, technological processes, and fluid mechanics.

COVERAGE: This volume contains 14 articles dealing with metallurgy and mechanical, aeronautical, and electrical engineering problems. Individual abstracts are given in the Table of Contents.

Smirnov, V.E. On Several Parameters of Corrected Gear Wheels Generated by a Rack-type Tool 103

This paper discusses the effects of the method of designating the outer diameter of gear wheels, the size of additional feed, and the radius of curvature of the tool edge, on the shape of the blocking device and, consequently, on the possibility of correction. References: 5 Soviet.

Kalikov, S.I. Investigation of the Rigidity of Drill Spindles Under Torsion 119

This paper presents the results of the tests and experimental studies of the torsional rigidity of the shafts of drilling presses of the Sterlitamakskiy stankostroitel'nyy zavod imeni Lenina (Sterlitamak Machine Tool Plant). A simple form for calculation is suggested and an auxiliary table for determining the angle of twist is given. The angles of twist of the shafts of the drill press are given for a nominal value of the torque. The results of full-scale tests of the shaft of the 2 A 135 press on the torsion machine are described. Results of an experimental investigation of the rigidity of the drive of the main motion of the 2 A 135 drill press are presented. References: 5 Soviet.

GOL'DENBERG, A.B., otv. red.; MAVLYUTOV, R.R., otv. red.; BOLOTOVSKIY, I.A., red.; KULIKOV, S.I., red.; KHRIZMAN, I.A., red.

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Change-over to the seven-hour day in the sugar industry; a discussion. Sakh.prom. 32 no.10:62-65 O '58. (MIRA 11:1)

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