SHUKURYAN, S.G., mladshiy nauchnyy sotrudnik

Tissue respiration in combined radiation eff[illegible] [illegible]
enk. 7:199-204 '63 [illegible]

Role of lipid peroxides in the [illegible]
on the background of [illegible] Ibid. [illegible]

SHUKYUROV, D.Z., provizor

Some Azerbaijanian plants containing tanning substances. Azerb. med.zhur. no.3:77-80 Mr '58 (MIRA 11:7)
(AZERBAIJAN-TANNING MATERIALS)

DAMIROV, I.A.; SHUKYUROV, D.Z.

Methods of purifying edible citric acid to obtain medicinal citric acid. Dokl. AN Azerb. SSR 14 no.2:165-168 '58. (MIRA 11:4)

1.Azerbaydzhanskiy meditsinskiy institut im. N. Narimanova. Predstavleno akademikom AN AzerSSR A.I. Karayevym.
(Citric acid)

SHUKYUROV, D.Z.

Pharmacological investigations of the preparations of privet (Ligustrum vulgare L.) occurring in Azerbaijan. Dokl. AN Azerb. SSR 14 no.6:479-484 '58. (MIRA 11:7)

1.Predstavleno akademikom AN AzerSSR A.I. Karayevym.
(Azerbaijan--Privet) (Pharmacology)

SHUKUROV, D.Z., provizor

Out-of-town conference of the Azerbaijan Pharmaceutical Society on research and practical problems. Apt.delo 8 no.4:77-78 Jl-Ag '59. (MIRA 12:10)

1. Upravlyayushchiy aptekoy No.5, Baku.
(AZERBAIJAN--PHARMACEUTICAL SOCIETIES)

SHUKYUROV, D. Z., Cand Pharm Sci -- (diss) "Chemical composition of leaves of the common privet (Ligustrum vulgare) as found in Azerbaydzhan, their medicinal form and their galenopharmaceutical preparations." Baku, Academy of Sciences Azerbaydzhan SSR Publishing House, 1960. 23 pp; (Azerbaydzhan State Medical Inst im N. Narimanov); 150 copies; price: free; (KL, 52-60, 123)

SHUKYUROV, D.Z.

Pharmacognostic study of the common privet grown in Azerbaijan. Izv. AN Azerb. SSR. Ser. biol.i med.nauk no.1:129-132 '60. (MIRA 14:5)

(AZERBAIJAN--PRIVET)

SHUKYUROV, D.Z.

Medicinal compounds and galenicals from the leaves of Ligustrum vulgare growing in Azerbaijan. Dokl.AN Azerb. SSR 16 no.1:93-99 '60. (MIRA 13:6)

1. Azerbaydzhanskiy meditsinskiy intitut im. N. Narimanova. Predstavleno akad. AN Azerbaydzhanskoy SSR A.I. Karayevym.
(PRIVET) (DRUGS)

DAMIROV, I.A.; SHUKYUROV, D.Z.

Future study and use of medicinal plant resources of Azerbaijan.
Dokl. AN Azerb. SSR 19 no.8:81-86 '63. (MIRA 17:11)

SHUKYUROV, N.R.; TRIFEL', M.S.; RUVINSKIY, V.A., redaktor.

[Speedy installation of electrical equipment of drilling rigs] Skorostnoi montazh elektrooborudovaniia burovoi. Baku, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, Azerbaidzhanskoe otd-nie, 1949. 66 p. (MLRA 8:1)
(Petroleum--Well boring) (Boring machinery)

SHUKYUROV, N. R.

20738. Shukyurov, N.R. Avtomaticheskiy avariyhyy vyklyuchatel' burovogo elektrodvigatelya. Energet. byulleten', 1949, No. 3, s. 25-27

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

USSR/Electricity May 49
Electrical Standards
Petroleum Industry

"Establishment of Electrotechnical Rules and Standards," N. P. Shukyurov, M. S. Trifel', Engineers, 1½ pp

"Elektrichestvo" No 5

Discusses establishment of rules and standards for electrical equipment in industrial enterprises in general, and petroleum industry in particular. Sets forth proposals representing combined opinions of many power-petroleum engineers and adopted by All-Union Sci Res Inst [illegible] Oil Ind. Article stresses importance of having both general and specific rules applicable to separate industries.

55/49733

PA 55/49733

SHUKYUROV, N. P.

USSR/Electricity - Conduits, Jun 49
Electric
Cables, Rubber Insulated

"A Safe Electric Wiring Conduit for 380/220 Volts Using Cables With Oilproof Rubber Coating," N. R. Shukyurov, VNIITB (All-Union Sci Res Inst for Safety Eng), 8½ pp

"Energet Byul" No 6

The VNIITB Elect Eng Lab in 1947 carried out extensive research on the safety of 380/220-volt electric wiring installed outdoors and in gas pipes used in pumping station chambers of oil refineries. Describes basic operating

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USSR/Electricity - Conduits, Jun 49
Electric (Contd)

conditions for industrial wiring and compares various wiring schemes. Concluded that oil-proof rubber cabling in conduit is superior to pipe wiring even when latter uses inert gases.

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SHUKYUROV, N. R.

PA 66/49727

[illegible]OV, I.V., prof., doktor tekhn. nauk, [illegible]KOV, R.T., inzh.

Steel for small diameter core rods. Vest. mash. no.11:41-44 (MIRA 17:6)
N '64.

1. Moskovskiy institut stali i splavov.

L 16008-65 EWT(m)/EPF(n)-2/EWA(d)/EWP(t)/EWP(b) Pu-4 IJP(c)/ASD(m)-3 MJW/
ACCESSION NR: AP5001945 JD/JG S/0148/64/000/009/0131/0136

AUTHOR: Shukyurov, R. I.; Paisov, I. V. B

TITLE: Effect of certain alloying elements on the elastic and fatigue limits of silicon drill steel 16

SOURCE: IVUZ. Chernaya metallurgiya, no. 9, 1964, 131-136

TOPIC TAGS: steel, molybdenum containing alloy, chromium containing alloy, tungsten containing alloy, vanadium containing alloy, handtool, solid mechanical property, ferritic steel

Abstract: Drill steel used in the mining industry for drilling through various rocks operate under alternating loads and considerable transverse stresses. For this reason, one of the most important mechanical properties of the steel used to make drill bits, particularly those of small diameter (19 mm), is elasticity and high fatigue strength.

In low-alloy structural steel containing 0.3-0.52% C, following cooling in air after hot rolling, there was observed an appreciable amount of structurally free ferrite which lowers the elastic and fatigue limits considerably.

The elastic limits also dropped sharply in the hypereutectoid steel (Sh-

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ACCESSION NR: AP5001945

Kh15M) in which a substantial amount of excess hypereutectoid carbides formed upon the cooling of the parts following rolling.

Additional alloying of the steel with one of such elements as molybdenum, chromium,[2] or tungsten,[3] or simultaneously with vanadium[2,3] and molybdenum[3] produced, after cooling in air and tempering at 400-500°C produces a troostite structure with a hardness of 40-45 R_c and an appreciable rise in the elastic limit. At the same time fatigue strength increases from 50 to 88 kg/mm^2.

The best combination of the values of elastic limit and fatigue strength was obtained for steels 55S2Kh,[9] 55S2M,[16] 55S2V[15] and 55S2FM,[19] in which, after cooling in air following hot rolling and after tempering at 450°C; elastic limit varied betwen 103 and 120 kg/mm^2 and the fatigue strength between 74 and 88 kg/mm^2. Orig. art. has 4 figures and 3 tables.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

ShKh15M[18]

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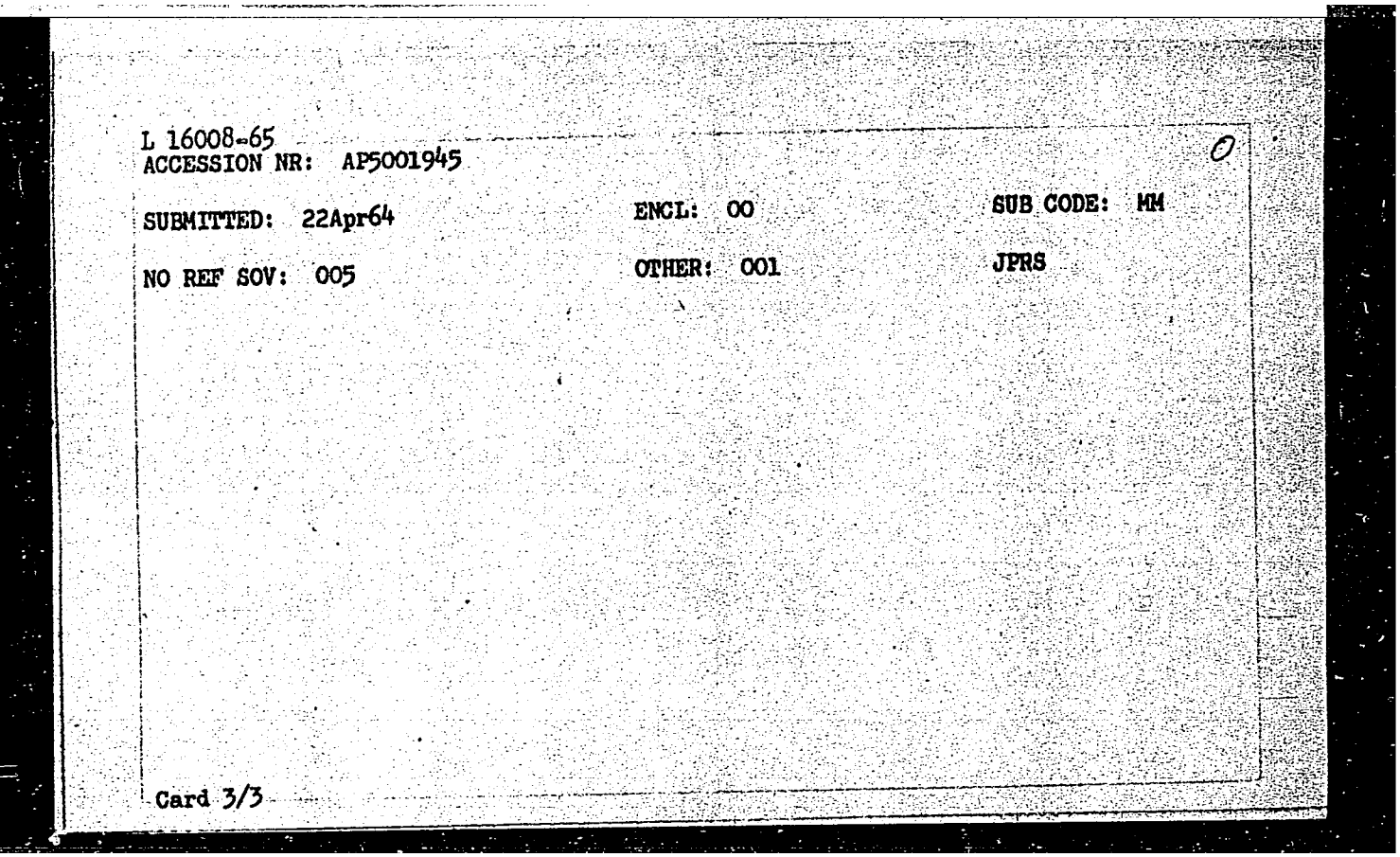

L 16008-65
ACCESSION NR: AP5001945

SUBMITTED: 22Apr64 ENCL: 00 SUB CODE: MM

NO REF SOV: 005 OTHER: 001 JPRS

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L 54791-65 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) MJW/JD

ACCESSION NR: AP5013330 UR/0148/65/000/005/0157/0161
669.74:620.17:541.12.03

AUTHOR: Shukyurov, R. I.; Paisov, I. V.

TITLE: Ausforming 55S2 steel alloyed with carbide forming elements

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1965, 157-161

TOPIC TAGS: ausforming, austenizing, thermomechanical treatment, metal physical property, metal mechanical property

ABSTRACT: The authors studied the effect which heating temperature in the austenite region, degree of deformation, recrystallization kinetics and annealing temperature have on the structure and properties of 55S2 steel additionally alloyed with chromium, molybdenum, tungsten, and with vanadium, and molybdenum together. The steel was melted in a 40-kg induction furnace. The ingots were forged into a strip 66 mm wide and 6-10 mm high. After annealing, flat specimens 3, 3.8, 4.9, and 6.3 mm thick were prepared so that after ausforming with reductions of 25, 50 and 70% the thickness of all samples was 3 mm and the other dimensions corresponded to GOST 1497-61. The specimens which were 3 mm thick were subjected to ordinary thermal

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L 54791-65

ACCESSION NR: AP5013330

treatment after the critical point Ac_3 was determined for all grades of steel studied. The samples were heated to optimum temperature (870-900°C) and subjected to plastic deformation in one pass on a roll stand with a roll diameter of 145 mm at a rate of 12.75 m/min. An IMCh-30 machine was used for the tensile tests. The effect of alloying elements on the structure and properties of 55S2 steel after ordinary processing as well as after ausforming with respect to heating temperature before rolling (900, 960 and 1050°C) and with respect to degree of deformation (25, 50 and 75%) was studied after quenching of deformed and nondeformed specimens in oil and annealing with holding at a temperature of 250°C for one hour. It was found that the tensile strength of 55S2 steel falls from 237 to 220 kg/mm^2 when the austenization temperature and degree of deformation are increased. Contraction of the cross section did not exceed 7-10% in any case. When 55S2 steel is additionally alloyed with chromium, molybdenum, tungsten, and with vanadium and molybdenum together, the strength properties are increased by 15-30 kg/mm^2. When the heating temperature before rolling is increased, these properties remain practically unchanged while a sharp improvement is seen in the ductile properties. The greatest improvement in mechanical properties after ausforming is observed in the case of deformation with reduction of 25%. When the degree of deformation is increased to 50%, there is an insignificant increase in tensile strength. A further increase in the

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ACCESSION NR: AP5013330

degree of deformation to 75% does not change the properties to any considerable degree with the exception of some improvement in ductility. The effect which annealing temperature after ordinary quenching and ausforming (samples heated to a temperature of 960°, degree of deformation 50%) has on the structure and properties of 55S2 and 55S2M steels was studied at 250-500°C every 50°C (see fig. 1 of the Enclosure). The tests indicated that ausforming reduces the effect which the annealing temperature has on strength characteristics. This is apparently due to the stability of the fine structure which is produced by ausforming. The strength and ductility of all samples subjected to ausforming are higher than in samples subjected to ordinary thermal treatment. The hardness remains unchanged in both cases. To study the effect of alloying elements on the recrystallization kinetics after deformation, the samples were heated before rolling to 105°C, rolled to a reduction of 50%, held at 900°C for periods from 5 sec to 15 min, oil quenched and annealed at 250°C. The results of these tests are shown in fig. 2 of the Enclosure. Orig. art. has: 3 figures, 2 tables.

ASSOCIATION: Moskovskiy institut stali i snlavov (Moscow Institute of Steel and Alloys)

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ACC NR: AP6026473 (N) SOURCE CODE: UR/0423/66/000/004/0023/0026

48
46
B

AUTHOR: Shukyurov, R. I.

ORG: Azerbaydzhan Polytechnical Institute (Azerbaydzhanskiy politekhnicheskiy institut)

TITLE: Thermomechanical machining of boring bars manufactured of air hardened steels

SOURCE: Za teknicheskiy progress, no. 4, 1966, 23-26

TOPIC TAGS: thermomechanical property, metallurgic research, steel structure, steel forging

ABSTRACT: The article discusses the requirements and production technology of boring bars used in mining and drilling operations, pointing out that the steels employed in these structures must possess a good combination of elasticity, plasticity, strength, and fatigue factors. The solution to this problem is seen in the development of air-hardened steels and the application of thermo-mechanical machining techniques. An analysis is made of the effect of the heating temperature on the austenitic region and of the annealing temperature in connection with high-temperature thermo-mechanical machining (HTM) on the structure and properties of steels of type 55S2, 55S2Kh, 55S2M, and 55S2EM. The research discussed was carried out at the

Card 1/2 UDC: 622.233.052/053:621.78

L 00104-67

ACC NR: AP6026473

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"Serp i molot" Plant, Moscow (Zavod "Serp i molot"). Tables and graphs are given to illustrate the specific effect of various aspects of this treatment, as derived on the basis of industrial testing of bars subject to HTM. The author finds that: HTM has a positive effect on the mechanical properties of the steels tested, with only small and medium reduction; hardening as a result of HTM is very stable and persists to high annealing temperatures (500C). After HTM and low-temperature annealing (250C) the elastic limit is lower than after conventional tempering and annealing; annealing at 350—450 C is recommended after HTM. The basic cause for the limited strength of boring bars, and their premature failure, was found to be destruction of the conical and end sections due to low elastic and strength tolerances in the steel. This type of failure is in turn caused by a considerable quantity of structurally-free ferrite in hypoeutectoid, and of excess carbides in hypereutectoid steel after hot rolling of the bars. The strengthening of long items (rods, pipes, bars, etc.) by HTM processing of air-tempered steels makes possible the use of the rolling heat, eliminating the need for a second heating. The technology proposed for bar manufacture, with steels 55S2Kh and 55S2M, permits an increase of 6—12 times in their strength under industrial conditions. Orig. art. has: 2 tables and 7 figures.

SUB CODE: 11,13/ SUBM DATE: none/ ORIG REF: 006

Card 2/2 LC

ACC NR: AP6032460 (A) SOURCE CODE: UR/0129/66/000/009/0048/0051

AUTHOR: Shukyurov, R. I.; Paisov, I. V.

ORG: Azerbaydzhan Polytechnical Institute (Azerbaydzhanskiy politekhnicheskiy institut); Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: The effect of heat treatment and alloying on the structure and properties of silicon spring steel

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1966, 48-51

TOPIC TAGS: metal heat treatment, alloy steel, metal recrystallization, steel structure, spring steel, silicon steel, metal ausforming

ABSTRACT: The authors study the effect of heating temperature in the austenite region, degree of deformation and annealing temperature on the structure and properties of 55S2 steel alloyed with chormium, molybdenum, tungsten and vanadium. The steel was melted in a 50 kg induction furnace. The ingots were forged into a band 66 mm wide and 6-10 mm thick. The continuous flat specimens were produced after annealing to ensure a 3 mm thickness after deformation with 25, 50 and 75% reduction. The specimens were tensile tested on the IMCh-30 machine. The effect of alloying elements on the structure and properties of 55S2 steel after standard heat treatment, ausforming and rapid quenching was studied as a function of heating temperature before rolling at

Card 1/2 UDC: 621.789:669.14.27'782

SHUKYUROV, Sh. Z., Cand of Med Sci -- (diss) "Streptomycin and phthisid in the complex treatment of lung tuberculosis patients in dispensaries." Baku, 1957, 21, pp (Azerbaydzhan State Medical Institute), 200 copies (KL, 52-57, 98)

SHUKYUROV, Sh.Z.

Streptomycin and phthivazide in a combined treatment of pulmonary tuberculosis under dispensary conditions. Dokl. AN Azerb.SSR 13 no.3:343-348 '57. (MLRA 10:7)

1. TSentral'nyy gorodskoy protivotuberkolesnyy dispanser.
(STREPTOMYCIN) (PHTHIVAZIDE) (TUBERCULOSIS)

SHUAYUROV, Sh. Z.

Results of treating different forms of pulmonary tuberculosis with streptomycin and phthivazide combined with artificial pneumothorax. Dokl. AN Azerb. SSR 13 no.9: 911-915 '57. (MLRA 10:9)

1. Predstavleno akademikom AN Azerbaydzhanskoy SSR A.I.Karayevym.
(TUBERCULOSIS) (STREPTOMYCIN) (PHTHIVAZIDE) (PNEUMOTHORAX)

SHUKYUROV, Sh. Z.

Treatment with Streptomycin and phtivasid therapy in conjunction with pneumoperitoneum in various forms of tuberculosis during the phase of disintegration. Probl. tub. 35 no. 6:37-40 '57. (MIRA 12:1)

1. Iz TSentral'nogo gorodskogo protivotuberkuleznogo dispansera (Baku)
(TUBERCULOSIS, PULMONARY, ther.
streptomycin & N(4-hydroxy-3-methoxy) benzal isonicotinic acid hydrazone with pneumoperitoneum (Rus))
(PNEUMOPERITONEUM, ARTIFICIAL, ther. use
tuberc., pulm., with streptomycin & N(4(hydroxy-3-methoxy) benzal isonicotinic acid hydrazone (Rus))

SHUKYUROV, Sh.Z.

Blood transfusion combined with antibacterials in different forms of pulmonary tuberculosis during the phase of disintegration. Azerb.med.zhur. no.6:96 Je '58 (MIRA 11:7)

1. Glavvrach TSentral'nogo protivotuberkuleznogo dispansera g. Baku.

(TUBERCULOSIS)
(BLOOD TRANSFUSION)

SHUKYUROV, Sh.Z.

Protracted drug therapy in the combined treatment of pulmonary tuberculosis in dispensaries. Azerb.med.zhur. no.10:21-24 O '59.
(MIRA 13:2)

(TUBERCULOSIS)

SHUKYUROV, Sh.Z.

Prolonged chemotherapy in combined treatment of pulmonary tuberculosis in dispensaries. Dokl.AN Azerb.SSR 15 no.1:87-91 '59.
(MIRA 12:3)

1. Bakinskiy gorodskoy protivotuberkuleznyy dispanser. Predstavleno akademikom AN AzerSSR M.A. Topchibashevym.
(TUBERCULOSIS)

SHUKYUROV, Sh.Z., kand.med.nauk

Prolonged chemotherapy in the combined treatment of patients with pulmonary tuberculosis under clinical conditions. Probl.tub. 37 no.6:35-39 '59. (MIRA 13:2)

1. Glavnyy vrach Bakinskogo gorodskogo protivotuberkuleznogo dispansera.
(TUBERCULOSIS PULMONARY ther.)

SHUKYUROV, Sh.Z.; AKHUNDZADE, I.R.; ISMAYLOVA, D.B.; SEIDOVA, P.Sh.; ISMAYLOVA, T.A.; PARSADANOVA, N.S.; STARIKOVSKAYA, L.M.; AKHUNDOV, T.A.; KHALAFLI, E.M.; KARLENKO, S.N.

Results of treating newly detected cases during 1960-61 in the Municipal Antituberculosis Dispensary and methods of controlling the use of antibacterial preparations by patients. Azerb. med. zhur. no.7:59-65 Jl '63.
(MIRA 17:1)

SHUKYUROVA, Zarifa

In the interest of women workers. Rabotnitsa 36 no.9:13 S '58.
(MIRA 11:12)

1. Sekretar' Prezidiuma Verkhovnogo Soveta Azerbaydzhanskoy SSR.
(Azerbaijan--Women--Employment)

ALIKHANOV, F.N.; ARUSHANOV, M.A.; AKHUNDOV, V.Yu.; ALIZADE, M.A.; AZIZBEKOV, Sh.A.; BAGIROV, M.A.; VEZIROV, S.A.; VOLOBUYEV, V.R.; BEKILOV, F.M.; GADZHIYEV, N.M.; GUSEYNOV, D.M.; GUSEYNOV, I.A.; DADASHEV, E.K.; DADASHZADE, M.A.; DALIN, M.A.; ISKENDEROV, M.A.; KAZIYEV, M.A.; KARAYEV, A.I.; KASHKAY, M.S.; KEL'DYSH, M.V.; KERIMOV, A.G.; LEMBERANSKIY, A.D.; MAMEDOV, G.K.; MEKHTIYEV, M.R.; MIRZOYEV, S.A.; NAGIYEV, M.F.; NESRULLAYEV, N.I.; ORUDZHEV, A.K.; RADZHABOV, R.A.; RUDNEV, K.N.; SADYKHOV, R.N.; SEMENOV, N.N.; TOPCHIYEV, A.V.; TOPCHIBASHEV, M.A.; TAIROVA, T.A.; KHALILOV, Z.I.; EFENDIYEV, G.Kh.; SHUKYUROVA, Z.Z.

IUsif Geidarovich Mamedaliev; obituary. Dokl. AN Azerb. SSR 17 no.12:1123-1126 '61. (MIRA 15:2)
(Mamedaliev, Iusif Geidarovich, 1905-1961)

ALIKHANOV, E.N.; ARUSHANOV, N.A.; AKHUNDOV, V.Yu.: ALIZADE, M.A.; AZIZBEKOV, Sh.A.; BAGIROV, M.A.; VEZIROV, S.A.; VOLOBUYEV, V.R.; VEKILOV, F.M.; GADZHIYEV, N.M.; GUSEYNOV, D.M.; GUSEYNOV, I.A.; DADASHEV, K.K.; DADASHZADE, M.A.; DALIN, M.A.; ISKENDEROV, M.A.; KAZIYEV, M.A.; KARAYEV, A.I.; KASHKAY, M.S.; KEL'DYSH, M.V.; KERIMOV, A.G.; LEMBERANSKIY, A.D.; MAMEDOV, G.K.; MEKHTIYEV, M.R.; MIRZOYEV, S.A.; NAGIYEV, M.F.; NASRULLAYEV, N.I.; OGUDZHEV, A.K.; RADZHABOV, R.A.; RUDNEV, K.N.; SADYKHOV, R.N.; SEMENOV, N.N.; TOPCHIYEV, A.V.; TOPCHIBASHEV, M.A.; TAIROVA, T.A.; KHALILOV, Z.I.; EFENDIYEV, G.Kh.; SHUKYUROVA, Z.Z.

IUsif Geidarovich Mamedaliev. Azerb.khim.zhur. no.6:5-6 '61.
(MIRA 15:5)
(Mamedaliev, IUsif Geidarovich, 1905-1961)

SHUKYUR-ZADE, E.B.

Some archival data on Kh.Abovian. Uch.zap.AGU no.3:113-116 '56.
(MLRA 10:4)
(Abovian, Khachatur, 1805-1848)

SHOR, A. S. and BOGDANOVA, V. I.

"Organization of Coenurosis and Echinococcosis Control in the Kazakh SSR."

report submitted at Fourth Internation Regional Conference of Asian Countries on Parasitic Diseases in Animals, 31 May to 7 June 1958, Alma Ata, Kaskakh SSR.

Kazakh Res. Veterinary Inst, Alma-Ata, USSR

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550120018-8"

SHULAKOV, P.G.

18(6) PHASE I BOOK EXPLOITATION SOV/3199

Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii
im. N. S. Kurnakova

Analiz blagorodnykh metallov (Analysis of Noble Metals) Moscow, 1959. 193 p. Errata slip inserted. 2,700 copies printed.

Resp. Ed.: N. K. Pshenitsyn, USSR Academy of Sciences, Corresponding Member; and O. Ye. Zvyagintsev, Doctor of Chemical Sciences; Eds. of Publishing House: T. G. Levi, and D. N. Trifonov; Tech. Ed.: I. N. Guseva.

PURPOSE: This collection of articles is for scientists engaged in the study and analysis of the noble metals.

COVERAGE: This is a collection of articles on the analysis of the noble metals. It includes studies carried out by the Institute of General and Inorganic Chemistry im. N. S. Kurnakov (AN SSSR), as well as reports presented by scientific research organizations and by industrial enterprises at the Third and Fourth Conference on Noble Metals held in 1954 and 1957, respectively. The studies and reports describe new organic reagents for gravimetric determination of platinum metals, and physicochemical methods of analysis (spectrophotometric, polarographic and potentiometric). Special attention is given to spectral analysis for the determination of admixtures in alloys of platinum metals, silver, and gold, as well as in refined noble metals. The collection also includes analytical methods, tables and charts for materials containing metals of the platinum group, as well as a review of the literature on the analysis of platinum metals published in the last five years. No personalities are mentioned. References follow each chapter.

Pshenitsyn, N. K., I. V. Prokor'yev and A. Ya. Katunina. Use of Thiourea for the Concentration of Platinum Metals 15

Pshenitsyn, N. K. and M. V. Fedorenko. Use of Nitrogen Substituted Salts of Dithiocarbamic Acids for the Determination of Platinum Metals 23

Pshenitsyn, N. K., M. I. Yuz'ko and L. G. Salikaya. Determination of Platinum, Palladium and Gold in Refined Silver 29

Pshenitsyn, N. K. and M. I. Yuz'ko. Spectrophotometric Determination of Rhodium With the Aid of Potassium Iodide 37

Pshenitsyn, N. K., S. I. Ginzburg and L. G. Salikaya. Determination of Iridium in Sulfuric Acid Solutions by Spectrophotometric and Potentiometric Methods 48

Aleksandrov, V. A. Photocolorimetric Method for the Determination of Rhodium in the Presence of Platinum 59

Karian, B. G. and T. P. Yufa. Photocolorimetric Methods Used in the Analysis of Platinum Metals 65

Pshenitsyn, N. K., N. A. Yezerskaya and V. D. Ratnikova. Polarographic Determination of Base Metal Admixtures in Refined Iridium 70

Muromtsev, B. A. (Deceased) and V. D. Ratnikova. Determination of Base Metals in Refined Silver Bardin, M. B., Yu. S. Lyalikov and V. S. Tsvyanko. Polarographic Determination of Certain Noble Metals by Using Platinum Electrodes 80

Anisimov, S. M., P. G. Shulakov, V. N. Alyanchikova, V. M. Ulyanov and [illegible] Chemical and Polarographic Methods for the Determination of Copper, Nickel, Iron, Zinc and Lead by Using a Cationite in Products Containing Platinum Metals 88

ROZHKOV, P.I., laureat Stalinskoy premii, otv.red.; PSHENITSYN, N.K., retsenzent; ZVYAGINTSEV, O.Ye., prof., doktor khim.nauk, retsenzent; PRILEZHAYEVA, N.A., prof., doktor fiz.nauk, retsenzent; ANISIMOV, S.M., prof., red.; SHULAKOV, P.G., red.; SEMENOVA, N.Ya., red.; GUT'KOV, A.D., red.; DOLGIKH, V.I., red.; KAMAYEVA, O.M., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Methods of analyzing platinum metals] Metody analiza platinovykh metallov, zolota i serebra; sbornik nauchnykh trudov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 256 p. (MIRA 13:9)

1. Russia (1917- R.S.F.S.R.) Krasnoyarskiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. 2. Chlen-korrespondent AN SSSR (for Pshenitsyn).
(Platinum--Analysis) (Gold--Analysis)
(Silver--Analysis)

SHULAYEV, I.; BOZHUKHOVSKIY, G.

Organizing centralized haulage. Avt. transp. 43 no.2:8-9 F '65. (MIRA 18:6)

1. Zamestitel' nachal'nika Kemerovskogo avtoupravleniya (for Shulayev). 2. Nachal'nik Bashkirskogo avtoupravleniya (for Bozhukhovskiy).

SOV/133-59-2-12/26

AUTHORS: Boyarshinov, M.I., Candidate of Technical Sciences, Docent
Shulayev, I.P., Engineer

TITLE: Rationalisation of Roll Pass Designs of Continuous Billet Mills (Ratsionalizatsiya kalibrovok nepreryvno-zagotovochnykh stanov)

PERIODICAL: Stal', 1959, Nr 2, pp 137-141 (USSR)

ABSTRACT: On the Magnitogorsk Works continuous billet mills 630 and 450 were erected in 1933-1934 and 720 in 1941. During subsequent operation of these mills a large amount of research work on the improvement of their operation has been carried out. This resulted in the installation of additional equipment and redesign of roll passes. It is claimed that at present the productivity of the above rolling mills is the highest in the world. In the paper a brief description of changes in rolling practice, installation of new equipment and redesign of roll passes is given. The initial and subsequent distribution of the equipment of blooming mill is shown in Fig.1, 2 and 6. Characteristic data for the equipment of mills 630 and 450 are given in tables 1 and 2 respectively and the roll passes for mills 630, 450 and 720 in Fig.3, 4 and 7

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respectively. The most important improvements achieved on the modernisation of auxilliary equipment of the mills are as follows: replacement of hot cutting shears for blooms and billets by more powerful ones; installation of turn tables in front of mills 630 and 720; replacement of helical guides by a turning roll of the S.V.Merekin system and the change of the reducing gear of the 450 mill (to increase rolling speed by 33.6%). There are 6 figures and 2 tables.

ASSOCIATION: Magnitogorskiy Gorno-metallurgicheskiy Institut i Magnitogorskiy Kombinat (Magnitogorsk Mining and Metallurgical Institute and the Magnitogorsk Combine)

SHULAYEV, I.P., kalibrovshchik

Improving rectangular groves on continuous billet mills. Metallurg 5 no.7:26-28 Jl '60. (MIRA 13:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Rolling mills)

SHULAYEV, I.P.

Design of rectangular grooves. Metallurg 6 no.4:26-28 Ap '61.
(MIRA 14:3)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Rolls(Iron mills))

SHULAYEV, I.P., kalibrovshchik

Drawing-off in rectangular grooves. Metallurg 6 no.5:23-24 My '61. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Rolling (Metalwork))

BOYARSHINOV, M.I., prof.; KURDYUMOVA, V.A., dotsent; KUPRIN, M.M., dotsent; SHTERNOV, M.M., kand.tekhn.nauk; SHULAYEV, I.P., inzh.; ROKOTYAN, Ye.S., prof., doktor tekhn.nauk

"Rolling mill practice" by P.I. Polukhin and others. Stal' 22 no.7:633-635 Jl '62. (MIRA 15:7)

1. Magnitogorskiy gorno-metallurgicheskiy institut i Magnitogorskiy metallurgicheskiy kombinat (for Boyarshinov, Kurdyumova, Kuprin, Shternov, Shulayev). 2. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut metallurgicheskogo mashinostroyeniya (for Rokotyan).
(Rolling (Metalwork))
(Polukhin, P.I.)

BOYARSHINOV, M.I., prof.; SHULAYEV, I.P., inzh.

Improving the grooving of continuous billet mills.
Stal' 22 no.10:931-933 O'62. (MIRA 15:10)

1. Magnitogorskiy gornometallurgicheskiy institut i Magnitogorskiy metallurgicheskiy kombinat.
(Rolling mills)

SHULAYEV, Ivan Petrovich

[Rolling on roughing and blooming mills; a worker's manual] Prokatka na obzhimnykh i zagotovochnykh stanakh; spravochnoe rukovodstvo dlia rabochikh. Moskva, Izd-vo "Metallurgiia," 1964. 179 p. (MIRA 17:5)

BOYARSHINOV, M.I.; SHULAYEV, I.P.

Investigating high-speed rolling on continuous 630 and 720 billet mills. Izv. vys. ucheb. zav. chern. met. 6 no.10:69-73 '63. (MIRA 16:12)

1. Magnitogorskiy gornometallurgicheskiy institut.

RAZUVAYEV, G.A.; OSANOVA, N.A.; SHULAYEV, N.P.; TSIGIN, B.M.

Radical reactionsof pentaphenylantimony. Zhur.ob.khim. 30 no.10: 3234-3237 O '61. (MIRA 14:4)

1. Gor'kovskiy gosudarstvennyy universitet.
(Antimony organic compounds)

MIRONOV, D.P.; KHIN, N.N.; ZHARKOV, V.V.; PROKOF'YEVA, M.V.; SHULAYEV, N.P.

Preparation of butyric anhydride by the reaction of butyric acid with acetic anhydride in a continuous fractionating column. Zhur. prikl. khim. 38 no. 10:2309-2312 O '65. (MIRA 18:12)

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol. Submitted Sept. 3, 1963.

SHULAYEV, V.

Accountant's work under the new conditions. Bukhg. uchet. 14 [i. e. 16] no.12:10-13 D '57. (MIRA 11:1)
(Accounting)

BELYAYEV, I.; SHULAYEV, V.

Comrade Kastanaev and others are not right. Fin. SSSR 19 no.9: 39-40 S '58. (MIRA 11:10)

1. Nachal'nik finansovogo otdela Leningradskogo sovnarkhoza (for Belyayev). 2. Zamestitel' glavnogo bukhgaltera Leningradskogo sovnarkhoza (for Shulayev).
(Finance)

SHULAYEVA, V.I.; MIRSAYEVA, R.G.

Results of the use of cysteine in the treatment of cataracts. Uch.zap. GNII glaz.bol. no.8:91-95'63. (MIRA 16:9)

1. Glaznaya klinika Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta im. M.F.Vladimirskogo i Glaznoye otdeleniye Zhukovskoy gorodskoy bol'nitsy Moskovskoy oblasti.

(CATARACT) (CYSTEINE)

NEFEDOV, P.Ya.; CHERNOBROVKIN, V.P.; KATARIN, V.P.; ANAN'IN, A.A.; BALBASHEV, V.K.; RYVKIN, I.Yu.; TSYNOVNIKOV, A.S.; KUZ'MIN, I.V.; YAKOVLEV, S.Ye.; SHULAYEV, V.I.; MATSEVICH, S.I.; NARNITSKIY, A.P.; BOKOV, O.K.; CHEREPANOV, V.Ye.

Coke briquets for cupola furances. Lit. proizv. no.3:6-7 Mr '65. (MIRA 18:6)

SHULAYEVA, Ye.V., Cand Med Sci -- (diss) "Gamma globulins and protein indicator of blood serum in various forms of endocarditis." Dnepropetrovsk, 1958, 18 pp (Min of Health UkSSR. Dnepropetrovsk State Med Inst) 300 copies (KL, 28-58, 112)

KRYZHANOVSKAYA, I.I., prof.; ROGACHEVSKIY, L.O., dotsent; SHULAYEVA, Ye.V.

Characteristics of diffuse nephritis in endocarditis lenta. Vrach. delo no.10:11-14 O '62. (MIRA 15:10)

1. Gospital'naya terapevticheskaya klinika (zav. - prof. I.I. Kryzhanovskaya) Dnepropetrovskogo meditsinskogo instituta.
(KIDNEYS--DISEASES) (ENDOCARDITIS)

[illegible], Yu.I., kand. med. nauk

Early examination of early and late complications following radical operations in pulmonary tuberculosis. Vest. rent. i rad. 40 no.2:87-89 Mr-Ap '65. (MIRA 18:6)

1. Rentgenovskoye otdeleniye (zav.- kand. med. nauk Ye.Ya. Chlogina) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza.

KOSOVA N.Ya., kand. med. nauk; SHULAYEVA, Z.A., kand. med. nauk

X-ray and bronchoscopic parallels in the clinical aspects and diagnosis of tracheal and bronchial tuberculosis. Probl. tub. 42 no.1:22-28 '64. (MIRA 17:8)

1. Bronkholaringologicheskoye otdeleniye (zav. - prof. A.N. Voznesenskiy) i rentgenologicheskoye otdeleniye (zav. - kand. med. nauk Ye.Ya. Oblogina) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kand. med. nauk T.P. Mochalova, zamestitel' direktora po nauchnoy chasti - prof. D.D. Aseyev) Ministerstva zdravookhraneniya RSFSR.

ROZENSHTRAUKH, L.S., kandidat meditsinskikh nauk; SHULAYEVA, Z.A.

Radiodiagnosis of benign adenomas of the bronchi. Vest.rent. i rad. el no.4:37-38 Jl-Ag '56. (MLRA 9:10)

1. Iz kafedry rentgenologii (zav. - prof. Yu.N.Sokolov) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P.Lebedeva)
(BRONCHI, neoplasms benign, adenoma, diag., x-ray)

SHULAYEVA, Z.A.

X-ray diagnosis of late complications following lung surgery.
Sov.med. 22 no.6:81-85 Je '58 (MIRA 11:9)

1. Iz 2-y kafedry rentgenologii (zav. - prof. Yu.N. Sokolov) TSentral'nogo instituta usovershenstvovaniya (dir. V.P. Lebedeva).
(PNEUMONECTOMY, compl.
bronchial fistula, x-ray diag. (Rus))
(BRONCHI, fistula
postep. after pneumonectomy, x-ray diag. (Rus))

SHULAYEVA, Z. A. Cand Med Sci --(diss) "Clinical and X-ray observations in ~~cases of~~ late and ~~distant~~ complications after radical operations on the lungs." Mos, 1959. 14 pp (Min of Health USSR. Central Inst for the Advanced Training of Physicians), 200 copies (KL, 41-59, 106)

SHUL'BERG, A.

Letter to the editor. Astron. tsir. no.229:35-37 Je '62.
(MIRA 16:6)

1. Odesskiy gosudarstvennyy universitet.
(Stars, Double)

SHUL'BERG, A.

Elements of the photometric orbit of UX Monocerotis. Astron. tsir. no.229:23-25 Je '62. (MIRA 16:6)

1. Odesskiy gosudarstvennyy universitet.
(Stars, Variable)

SHUL'BERG, A.M.

SX Cassiopeiae. Per.zvezdy 13 no.6:407-411 '61. (MIRA 16:9)

1. Odesskiy gosudarstvennyy universitet.
(Stars, Variable)

SHUL'BERG, A.M.

Elements of the photometric orbit of SX Cassiopeiae. Astron.tsir. no.222:23-25 My '61. (MIRA 15:4)

1. Odesskiy gosudarstvennyy universitet.
(Stars, Double)

TABACHNIK, V.M.; SHUL'BERG, A.M.

Use of electronic computers in determining the orbital elements of eclipsing binaries (total and annular eclipses). Astron. zhur. 42 no.3:590-594 My-Je '65. (MIRA 18:5)

1. Odesskiy pedagogicheskiy institut im. K.D.Ushinskogo i Odesskiy gosudarstvennyy universitet im. I.I.Mechnikova.

SHULBERG, A. R. Cand. Physicomath. Sci.
Dissertation: "Stars of the Algol Type with Elongated Photospheres." State Astronomical Inst. imeni P. K. Shternberg. 27 Feb. 1947

SO: Vechernyaya Moskva, Feb. 1947 (Project "17836)

SHUL'BERG, A. [R.]

Determining orbit elements for Algol stars with extended envelopes. Izv.Astron.obser. 3:249-255 '53. (MLRA 7:11)
(Stars, Variable)

SHUL'BERG, A. [R.]

Expedition of the Odessa University Astronomical Observatory for making observations of the solar eclipse of February 25, 1952. Izv.Astron.obser. 3:319-321 '53. (MLRA 7:11)
(Eclipses, Solar--1952)

SHUL'BERG, A.M.

Astrophysics, Observations of Stars (2183)
Peremennyye Zvezdy, Vol 9, No 4, 1953, pp 256-265
SHUL'BERG, A. M.
"Eclipsed Variables with Expanded Atmospheres"
The author surmises that the distribution of brightness over the disc of a star having an expanded photosphere follows Kozyrev's law. A method is worked out for the determination of the elements of an eclipsed-binary system which is applicable to the study of giant stars.

SO: Referativnyy Zhurnal--Astronomiya i Geodeziya, No 2, Feb 54;(W-30785, 28 July 1954.)

SHULBERG, A. [K.]

"Problem of Orbit Elements Determination of Stars of the Algol Type"
Izv. Astron. Observ. Odessk. Univ., 3, 1954, pp 249-255

A more accurate method for determining of orbit elements of eclipsing binaries with extended atmospheres (see RZhAstr-2183) (1954) is given, taking into consideration transparency of the extended atmosphere. This method is applied to the study of V 444 Cygni System. (RZhAstr, No 11, 1954)

SO: W-31187, 8 Mar 55

KIRO, S.M.; SHUL'BERG, O.M.

Biography of O.M.Liapunov. Ist.-mat. zbir. 1:157-165 '59.
(MIRA 14:2)

(Liapunov, Aleksandr Mikhailovich, 1857-1918)

Name : SHUL'BERT, A.

Title : Candidate of Physical and Mathematical Sciences

Affiliation: Deputy Director, Odessa Astronomical Observatory

Remarks : A. Shul'bert has written an article entitled "Triumph of Soviet Science and Technology" in honor of the Launching of Sputnik I.

Source : N: Krasnaya Zvezda, No. 238, 8 October 1957, p. 3, c. 2-3

SHUL'DER, S.A., vrach

Case of sarcoma of the bladder in a child. Vop. okh. mat. i det. 6 no.12:79-80 D '61. (MIRA 15:3)

1. Iz detskogo otdeleniya Molvotitskoy rayonnoy bol'nitsy Novgorodskoy oblasti (glavnyy vrach L.K. Bryzgalina).
(BLADDER—CANCER)

BERDICHEVSKIY, M.N.; SHULDEYEV, M.P.

New procedures in processing observations in the method of telluric currents and magnetotelluric profiling. Razved.i prom.geofiz. no.44:55-62 '62. (MIRA 15:7)

(Electric prospecting)

SHUL'DINER, P. Yu.

17 The formation of graphite on the surface of cast iron. I. V. Salli and P. Yu. Shul'diner. *Zhur. Tekh. Fiz.* 23, 242-6(1953).—The first graphite nuclei are formed on the grains having faces which have the least specific interfacial tension at the interface with unfavorably oriented austenite crystals. The fact that not all austenite crystals are covered with graphite may be due to anisotropic diffusion of C in austenite. Very little of any graphite already on the surface redissolves on reheating. Cyrus Feldman

62

1

OZERSKIY, A.P.; PAVLOVA, V.V.; [illegible] V.I.

Mesozoic igneous activity of the Olekminskiy Stanovik. Geol. i geofiz. no.6:58-67 '64. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut, Leningrad, i Chitinskoye geologicheskoye upravleniye.

SHUL'DINER, V.I.; TOMBASOV, I.A.

Age of granites in the northeastern part of the Argun Valley.
Izv. vys. ucheb. zav.; geol. i razv. 7 no.1:137-138 Ja '64
(MIRA 18:2)

1. Chitinskoye geologicheskoye upravleniye.

SHUL'DINER,Ye., inzhener

Bett conveyer with an extensible section. Rech. transp. 14 no.4:9 Ap '55. (MLRA 8:6)
(Conveying machinery)

FRIDMAN, R. (Kiyev); SHUL'DISHENKO, A. (Kiyev)

Cardboard mannequins. Sov. torg. 35 no.12 54 D '61. (MIRA 14:11)

SHUL'DYAKOV, A.A.

Rest for creating a reclining position during the treatment of compression fractures of the spine. Ortop., travm. i protez. (MIRA 14:4)
21 no.11:63-64 '60.
(SPINE--FRACTURE) (ORTHOPEDIC APPARATUS)

SHUL'DYAKOV, A.A., mladzhiy nauchnyy sotrudnik

Method for measuring the strength of the spinal extensors. Ortop., travm.i protez. no.9:52-54 '61. (MIRA 14:10)

1. Iz otdeleniya fizicheskikh metodov lecheniya (zav. - V.I. Plotnyagina) Saratovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent Ya.N. Rodin).
(SPINE—FRACTURE) (MUSCLES)

BABICHENKO, Ye.I., kand. med. nauk; SHUL'DYAKOV, A.A., kand. med. nauk

Surgical tactics in fractures of the thoracic and lumbar regions of the spine with lesions of the spinal cord. Vop. neirokhir. 27 no.2:5-10 Mr-Ap '63. (MIRA 17:2)

1. Saratovskiy nauchno-issledovatel'skiy institut travmatologii i ortopedii (dir. - dotsent Ya.N. Rodin).

SHULEK, BURGER

HUNGARY/Analytical Chemistry - Analysis of Inorganic Chemistry E-2

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7631

Author : Shulek, Burger
Inst : Not Given
Title : A New Method for the Determination of Bromate in an Alkaline Solution of Hypobromite.

Orig Pub : Acta pharmac. hung. 1957, 27, No 1-2, 8-9

Abstract : In the iodometric determination of BrO_3^- in hypobromite the removal of OBr^- and Br_2 is achieved by the utilization of a reaction described previously (Schulek E. and other Analyt. chim. acta, 1948, 2, 71; 1951, 5, 245,252). Through the addition of cyanide OBr^- and Br_2 are converted quantitatively into CNBr, which in an alkaline media is converted into iodometrically inactive Br^- and CNO^- whereas BrO_3^- remains unchanged. The alkaline solution being analyzed is then transferred into a flask with a ground glass stopper. To that, 2 ml. of a 5% KCN solution is added and the sample is titrated with a 0.01N $Na_2S_2O_3$ solution. Small amounts of BrO_3^- can be determined in the presence of a 20-30 fold

Card : 1/2

L 47522-66

ACC NR: AT6035300 SOURCE CODE: HU/2502/66/047/002/0129/0136

AUTHOR: Schulek, E.--Shulek, E. (deceased), Barcza, Lajos--Bartsa, L. (Doctor), Gabor-Feher, Magda--Gabor-Fekher, M. and Ladanyi, Laszlo--Lodani, L., of the Department for Inorganic and Analytical Chemistry at L. Eotvos University in Budapest.

"Reaction of Disulfur Dichloride and Sulfur Dichloride with Cyanide; Their Determination through Thiocyanate"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 47, No 2, 1966, pp 129-136.

Abstract: [English article] In the reaction of disulfur dichloride with cyanide, thiocyanogen forms first. The product then oxidizes the excess cyanide to paracyanogen by transforming into thiocyanate. The reaction of sulfur dichloride proceeds in a similar manner. The findings were utilized in the development of an analytical technique for the determination of disulfur dichloride and sulfur dichloride by determining the amount of thiocyanate formed. This latter determination is accomplished by iodometry.

Orig. art. has: 10 formulas and 2 tables. [JPRS: 36,002]

TOPIC TAGS: cyanide, chloride, sulfur compound, thiocyanate, quantitative analysis

SUB CODE: 07 / SUBM DATE: 08 Dec 64 / OTH REF: 007 / SOV REF: 001

Card 1/1

L 24846-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(b)/EWP(1) EM/JD

ACCESSION NR: AP5001967 S/0119/64/000/012/0008/0011

AUTHOR: Shulemovich, A. M.

TITLE: Calculation of impact-vibration test outfits

SOURCE: Priborostroyeniye, no. 12, 1964, 8-11

TOPIC TAGS: impact vibration test, impact vibration testing machine

ABSTRACT: Fundamental to an impact-excitation test-machine design, the problem of the impact of a weight against the midpoint of a beam mounted on elastic supports and subsequent beam vibration is considered. The beam may carry symmetrically-placed concentrated masses. The beam is regarded as being free of links, and plastic deformations are neglected. The acceleration of the vibrating beam is given by: $a = v_1 \sqrt{\frac{C}{M}}$, where C is the rigidity of the elastic supports and v_1 is the velocity of the beam upon impact. The velocity v_1 should

Card 1/2

L 24846-65
ACCESSION NR: AP5001967

be determined from a functional equation (23) of the impact; this complicated integral equation can be solved on an analog computer as is illustrated by a numerical example. Orig. art. has: 45 formulas.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00

SUB CODE: MM, ME NO REF SOV: 010 OTHER: 000

Card 2/2

[illegible], A.E.; [illegible], A.A.; SHIRKEVICH, A.N.; [illegible], [illegible]; [illegible], [illegible]; [illegible], A.V., kand. tekhn. nauk, inzh., red.

[Design of elastic strain-measuring elements] Raschety uprugikh tenzometricheskikh elementov. Moskva, Mashinostroenie, 1964. 190 p. (MIRA 17:12)

L 38151-65 EWT(m)/EWP(w) EM UR/

AM5006604 BOOK EXPLOITATION

14
Bt1

Malikov, G. F.; Shneyderman, A. L.; Shulemovich, A. M.

Designs of elastic strain-gage elements (Raschety uprugikh tenzometricheskikh elementov) Moscow, Mashgiz, 1964. 190 p. illus., biblio. Errata slip inserted. 3700 copies printed. Reviewer: Engineer S. I. Gauzner; Editor: Engineer L. Ye. Kurattsev; Technical editor: L. A. Makarova; Proofreader: Ye. A. Davydkina

TOPIC TAGS: elastic element, strain gage, tensometer

PURPOSE AND COVERAGE: This book was intended for engineers, designers, and scientific personnel concerned with problems of the application of strain-gage methods in measuring forces; it may be of use also to students specializing in similar work. The designs of contemporary elastic strain-gage elements are described, and methods for their investigation are presented. Problems of determining the nonlinearity of certain elastic elements are analyzed along with calculations of strength and rigidity. Considerable attention is paid to the application of statistical methods for experimental determination of a number of parameters

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L 38151-65
AM5006604

characterizing the metrologic properties of elastic elements.

TABLE OF CONTENTS:

SUB CODE: IE SUBMITTED: 13Aug64 NR REF SOV: 021

OTHER: 009

Card 2/2

S/020/62/144/005/004/011
B125/B104

15.2520

AUTHORS: Kabalkina, S. S., Vereshchagin, L. F., Corresponding Member AS USSR, and Shulenin, B. M.

TITLE: X-ray study of the effect of hydrostatic pressure on the structure of barium titanate

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 5, 1962, 1019-1021

TEXT: The effect of hydrostatic pressure on the structure of barium titanate was studied at room temperature. X-ray pictures with reflection angles of 60-80° were recorded under pressures of 1-6000 kg/cm^2, using a KROS (KROS) X-ray camera and an auxiliary high-pressure unit. The barium titanate specimens (lattice constants, a = 3.993 Å and c = 4.032 Å; Curie temperature T_{Cur} = 118°C) had been supplied by the Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov). The values of a, c, and T_{Cur} at high pressures were determined using the line group with $h^2+k^2+l^2 = 26$ (θ = 77-80°).

Card 1/3 ... $BaTiO_3$

ACCESSION NR: AP4009138 S/0056/63/045/006/2073/2076

AUTHORS: Kabalkina, S. S.; Vereshchagin, L. F.; Shulenin, B. M.

TITLE: Phase transitions in tellurium at high pressures

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 2073-2076

TOPIC TAGS: tellurium high pressure, phase transition, reversible phase transition, tellurium crystal structure, x ray diffraction pattern, x ray diffraction, Patterson Harker section, chain structure, laminar structure

ABSTRACT: An x-ray diffraction study of tellurium was carried out at pressures up to 100 kbar in order to find how the crystal structure of tellurium changes at high pressure. Two reversible phase transitions were observed, at 15--20 and 42--45 kbar. At 15 kbar tellurium is shown to undergo a transition from the chain structure

Card 1/2

ACCESSION NR: AP4009138

A8 to the laminar structure A7, and the reasons why this transition was not detected by Bridgman (Proc. Am. Acad. Arts Sci. v. 60, 366, 1925) are explained. The structure of the second phase transition at 42--45 kbar could not be ascertained, but the constancy of the x-ray diffraction patterns above 45 kbar seems to cast doubts on the 69 kbar phase transition detected by Bridgman (Proc. Am. Acad. Arts Sci. v. 74, 425, 1942). Orig. art. has 2 figures and 2 tables.

ASSOCIATION: Institut fiziki vysokikh davleniy Akademii nauk SSSR (High Pressure Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 11Sep63 DATE ACQ: 02Feb64 ENCL: 00

SUB CODE: PH NO REF SOV: 002 OTHER: 005

Card 2/2

L 7086-66 EWT(m)/ETC/EWG(m)/EWP(t)/EWP(k)/EWP(b)/EWA(h)/EWA(c) IJP(c)
ACC NR: AP5028273 RDW/JD/HW SOURCE CODE: UR/0020/65/165/002/0297/0298

AUTHOR: Vereshchagin, L. F. (Corresponding member AN SSSR); Kabalkina, S. S.; Shulenin, B. M.

ORG: Institute of Physics of High Pressures, Academy of Sciences, SSSR (Institut fiziki vysokikh davleniy Akademii nauk SSSR)

TITLE: X-ray diffraction investigation of the compressibility of hexagonal selenium up to 15 kbar

SOURCE: AN SSSR. Doklady, v. 165, no. 2, 1965, 297-298

TOPIC TAGS: pressure effect, superhigh pressure, selenium, x ray diffraction study

ABSTRACT: Earlier studies by the authors on single-crystal tellurium (ZhETF v. 45, 2073, 1963) are extended to include hexagonal selenium. The x-ray diffraction study was carried out in a special chamber, described elsewhere (DAN v. 143, 818, 1962), in which the high-pressure vessel was a cone of metallic beryllium with a channel (0.4 mm in diam) for the sample. Aviation gasoline was used to transmit the pressure, which was measured with a manganin manometer accurate to ±100 bar. The hexagonal selenium modification was prepared from the amorphous one at 60 kbar at 400°. The results (Fig. 1) show that selenium has a highly anisotropic compressibility, similar to that of tellurium. The results can be attributed to the fact that compression brings the lattice structures of the two substances closer to cubic. The pressure dependence of the compressibility agrees well with data previously obtained by P. W. Bridgman (Proc. Am.

Card 1/2 UDC: 539.26

SHULENIN, M.

Conquest of Meshchera. Sel'.stroi. 18 no.11:8-10 N '63.
(MIRA 17:3)

1. Korrespondent zhurnala "Sel'skoye stroitel'stvo".

Socialist Competition

Competition by order, V pom. profaktivu, 13, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

1. SHULENIN, M.
2. USSR (600)
4. Lumbering
7. Unfulfilled obligations. V pom. profaktivu 14 no. 7 1953

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

SHULENIN, M.

Speed up the construction of boarding schools. Sel'.stroi. 14 no.8:5 Ag '59. (MIRA 12:12)

1. Korrespondent zhurnala "Sel'skiy stroitel'".
(Boarding schools)

SHULENIN, M.

The "Kuban'" State Farm designated 6 million rubles for construction. Sel'stroi. 14 no.10:9-11 O '59. (MIRA 13:2)

1. Korrespondent zhurnala "Sel'skiy stroitel'". (Farm buildings)