PROCESSES AND PROPERTIES INDEX

The influence of histamine and peptone shock on the hemato encephalic barrier. G. Ya. Khvoles, M. I.
Nikol'skaya and K. A. Govorovich. Trav. inst. ...
physiol. Moscow 2, 30-82(1939)(in Russian). Shock was
produced in dogs and cats by the injection of histamine
(0.5-5.0 mg./kg. body wt.) or peptone (0.2-0.8 g./kg.
body wt.). The shock lasted for 10 min.-4 hrs. During
the initial excitatory stage of the shock (characterized by
increased reflex excitation) there was an increase in the K
content of the cerebrospinal fluid, while the K/Ca ratio
was either increased or unchanged. During the longer
inhibitory stage of the shock (characterized by decreased
reflex excitation) the K, K/Ca ratio and inorg. P of the
cerebrospinal fluid were decreased, while the Ca concn. was
increased. In the blood plasma the concn. of K was de-
creased and that of Ca increased, while the concn. of in-
org. P was decreased in the beginning of the shock and in-
creased at the later stages. A shock of short duration was
accompanied by an increase in the concn. of sugar both in
the cerebrospinal fluid and in the blood plasma, while a
shock of longer duration showed a decrease in the sugar
concn. The resistance of the hemato-encephalic barrier
was increased in respect to K and P and decreased in rela-
tion to sugar, Ca and Na$_4$Fe(CN)$_6$ (which does not nor-
mally appear in the cerebrospinal fluid). There was no
change in the resistance to Trypan Blue or in the Cl con-
tent of the blood plasma or cerebrospinal fluid.

S. A. Corson

METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

11-H

State of the secretory and motor functions of the digestive tract in the immediate action of potassium and calcium on the nerve centers. G. Ya Khvoles, B. A. Minin, and I. I. Turbina. *Byull. Eksptl. Biol. Med.* 19, No. 4/5, 41-8(1945). Expts. on dogs lead to the following conclusions. The secretory activity of the digestive glands and also the motor function of the stomach depend completely on the functional condition of the sympathetic and parasympathetic centers of the nervous system. When acid potassium phosphate was administered, it stimulated the sympathetic and inhibited the parasympathetic centers and thus depressed the gastric secretions. It also inhibited the motility of the stomach, delayed its evacuation, and lowered its tonus. Introduction of calcium into the cisterna magna produced an opposite effect both on the secretory and motor activity of the stomach. The action of acid potassium phosphate on the sympathetic nerve centers inhibits the secretion of saliva and renders the saliva poorer in chlorides. On the other hand, calcium gluconate stimulates the parasympathetic centers and increases the chloride content of the saliva.

D. L. Macht

METALLURGICAL LITERATURE CLASSIFICATION

NOVIKOVA, L.A.; KHVOLES, G.Ya.

Electrophysiological study on olfactory analyser. Fiziol. zh. SSSR 39 no. 1:35-46 Jan-Feb 1953. (CLML 24:2)

1. Electrophysiology Laboratory of the Institute of Neurosurgery imeni Academician N. N. Burdenko of the Academy of Medical Sciences USSR, Moscow.

KHVOLES G. YA.

USSR/Human and Animal Physiology - (Normal and Pathological). T
Nervous System. Electroencephalogram of Man.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17948

Author : Khvoles, G.Ya., Kaganovich, I.I., Trostanetskaya, M.S.

Inst : Karaganda Medical Institute

Title : Electric Processes of the Brain in Early Toxicoses of Pregnancy.

Orig Pub : Tr. Karagandinsk, med. in-ta, 1957, 1, No 3, 182-183

Abstract : No abstract.

Card 1/1

- 96 -

USSR/Human and Animal Physiology - (Normal and Pathological). T
Nervous System. Electroencephalogram of Man.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17947

Author : Khvoles, G.Ya., Petrishchenko, N.V.

Inst : Karaganda Medical Institute

Title : Electroencephalographic Investigations in Various Forms of Brucellosis.

Orig Pub : Tr. Karagandinsk. med. in-ta, 1957, 1, No 8, 491-493

Abstract : In 22 patients with brucellosis there were noted on the EEG: electric assymetry of the brain, irregular alpha-rhythm with tendency to spontaneous depression, intermittent with beta-rhythm and fast asynchronic oscillations. In acute and sub-acute forms of the disease, the tendency to irritation (frontal and antero-basal regions) and normalization of alpha-rhythm under the influence of

Card 1/2

- 95 -

USSR/Human and Animal Physiology - (Normal and Pathological). T
Nervous System. Electroencephalogram of Man.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17946

KHVOLES, G.Ya.

KHVOLES, G.Ya., professor; YASNYUK, A.D. (Karaganda)

Pathogenesis and treatment of migraine. Klin.med. 35 no.6:103-107 Je '57. (MLRA 10:8)

1. Iz kafedry fiziologii (zav. - prof. G.Ya.Khvoles) Karagandinskogo meditsinskogo instituta (dir. - dotsent P.M.Pospelov)
(MIGRAINE
pathogen. & ther.)

KHVOLES, G.Ya.

A method for abducing electrical potentials and stimulating basal portions of the brain of a dog in long-term experiments. Biul. eksp.biol. i med. 43 no.1 supplement:155-156 '57. (MLRA 10:3)

1. Iz kafedry normal'noy fiziologii (zav. - prof. G.Ya.Khvoles) Karagandinskogo meditsinskogo instituta (dir. - dots. P.M.Pospelov) Predstavlena akademikom L.A.Orbeli.

(BRAIN, physiol.
method for abducing electrical potentials from basal portions of dogs' brain in chronic exper.)

KHVOLES, G.Ya.

KHVOLES, G.Ya.; UZBEKOV, A.A.

Electroencephalic data on the effect of mud applications on the cerebral cortex and on the subcortical centers of the brain [with summary in English]. Biul.eksp.biol.med. 44 no.8:15-19 Ag '57. (MIRA 10:11)

1. Iz kafedry normal'noy fiziologii (zav. - prof. G.Ya.Khvoles) Karagandinskogo meditsinskogo instituta (dir. - dotsent P.M.Pospelov). Predstavlena deystvitel'nym chlenom AMN SSSR prof. V.N. Chernigovskim.

(MUD THERAPY,
eff. on cerebral cortex & subcortical centers, EEG (Rus))
(ELECTROENCEPHALOGRAPHY,
in mud ther., registration of cortical & subcortical responses (Rus))

SEMENOVSKAYA, Ye. N.; BOGOSLOVSKIY, A.I.; KHVOLES, G. Ya.

Share of the cortex, the subcortex, and the retina in the act of human conditioned response reproduction of light rhythm [with summary in English]. Vop. psikhol. 6 no.1:99-113 Ja-F '60.

1. Laboratoriya fiziologicheskoy optiki im.S.V. Kravkova Gosudarstvennogo nauchno-issledovatel'skogo instituta glaznykh bolezney im. Gel'mgol'tsa.
(CONDITIONED RESPONSE) (ELECTROPHYSIOLOGY) (CEREBRAL CORTEX)

KHVOLES, G.Ya.; YASNYUK, A.D.

Influence of nasal electrophoresis on the electrical processes of the brain in headaches of varying etiology. Vop. kur. fizioter. i lech. fiz. kul't. 25 no. 5:396-399 S-O '60. (MIRA 13:10)

1. Iz kafedry normal'noy fiziologii (zav. - prof. G.Ya. Khvoles) Karagandinskogo meditsinskogo instituta (dir. - dotsent P.M. Pospelov) i fizioterapevticheskogo otdeleniya Oblastnoy klinicheskoy bol'nitsy (zav. A.D. Yasnyuk).
(ELECTROPHORESIS) (BRAIN) (HEADACHE)

KHVOLES, G.Ya.; UZBEKOV, A.A.

Investigation of electrical processes of the cortex and subcortical centers during mud applications. Vop. kur., fizioter. i lech. fiz. kul't. 25 no. 6:481-485 N-D '60. (MIRA 14:2)

1. Iz kafedry normal'noy fiziologii (zav. - prof. G.Ya. Khvoles) Karagandinskogo meditsinskogo instituta (dir. - dots.P.M. Pospelov).
(ELECTROPHYSIOLOGY) (BRAIN) (BATHS, MOOR AND MUD)

KHVOLES, S.B.

Using the daylight pyrgeometer developed by the Agrophysical Institut. Sbor.trud.po agron. fiz. no.5:73-80 '52. (MIRA 11:7)
(Pyrgeometer)

KHVOLES, S.B.

Kaganov, M. A., Khvoles, S. B. and Chudnovskii, A. F., Vliianie orosheniia na mikroklimat pochvy i prizemnogo sloia vozdukha. [Influence of irrigation on the microclimate of the soil and on the air layer near the ground.] *Gidrotekhnika i Melioratsiia*, Moscow, No. 1132–63, 1955. 10 figs., 7 tables, 5 refs. DLC. A number of graphs shows microclimatic differences between an irrigated and an unirrigated field (wheat and barley), observed in the Saratov district. Absolute and relative humidity at different heights, as well as air temperature are compared for selected days. Furthermore, the diurnal variation of soil temperature is discussed. Subject Headings: 1. Microclimate of fields 2. Irrigation 3. Saratov District, European U.S.S.R. A.A.

KHVOLES, S.B.; CHUDNOVSKIY, A.F.

Radiation received by fields between shelterbelts. Sbor.trud.po agron.fiz. no.6:91-95 '53. (MIRA 11:7)
(Forest influences) (Soil temperature)

KHVOLES, V. A.

137-1958-1-122

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 19 (USSR)

AUTHOR: Khvoles, V. A.

TITLE: Electric Gold-saving Tables for Dredges and Washers (Elektricheskiye samorodkouloviteli dlya drag i promyvochnykh priborov)

PERIODICAL: Kolyma, 1957, Nr 3, pp 21-24

ABSTRACT: A highly effective gold-saving table of a new type has been designed. Metal is identified by changes in the parameters of a variable electromagnetic field through which sand containing native metal is passed. When a nugget passes, a pick-up actuates a radio circuit which in turn operates a relay to start a mechanism that automatically cuts off the portion of sand containing the nugget. A number of gold-saving tables now in use at placers is described.

A. Sh.

Card 1/1 1. Gold ore--Processing--Equipment 2. Gold ore washers--Equipment 3. Dredges--Equipment

KHVOLES, V.A.

137-1957-12-23010

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 21 (USSR)

AUTHOR: Khvoles, V. A.

TITLE: Electromechanical Separators for Large Particles of Metal (Elektromekhanicheskiye uloviteli krupnykh fraktsiy metalla)

PERIODICAL: Kolyma, 1953, Nr 7, pp 21-24

ABSTRACT: Bibliographic entry

1. Metallurgy-USSR 2. Metals-Separation 3. Bibliography

Card 1/1

KHVOLES, V.

537.591 2763

Highly Ionizing Particles in the Cosmic Radiation.
V. Veksler, S. Dobrotin & V. Khvoles. (J. Phys., U.S.S.R., 1945. Vol. 9, No. 4, pp. 277-279.)

~~Khovles~~, V. KHVOLES V

72. Highly Ionizing Particles in the Cosmic Radiation, by V. Veksler, N. Dobrotin, and V. Khovles. Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki 16, No. 7, August 1946. 3 p. (In Russian). Results of measurements of the number of highly ionizing particles in cosmic rays at an altitude of 3,860 meters are reported. They show that the number of particles, the ionization of which exceeds 3-4 times the the ionization of fast mesotrons, is less than 0.5% of the number of the penetrating particles of cosmic rays.

KHVOLES, V. A.

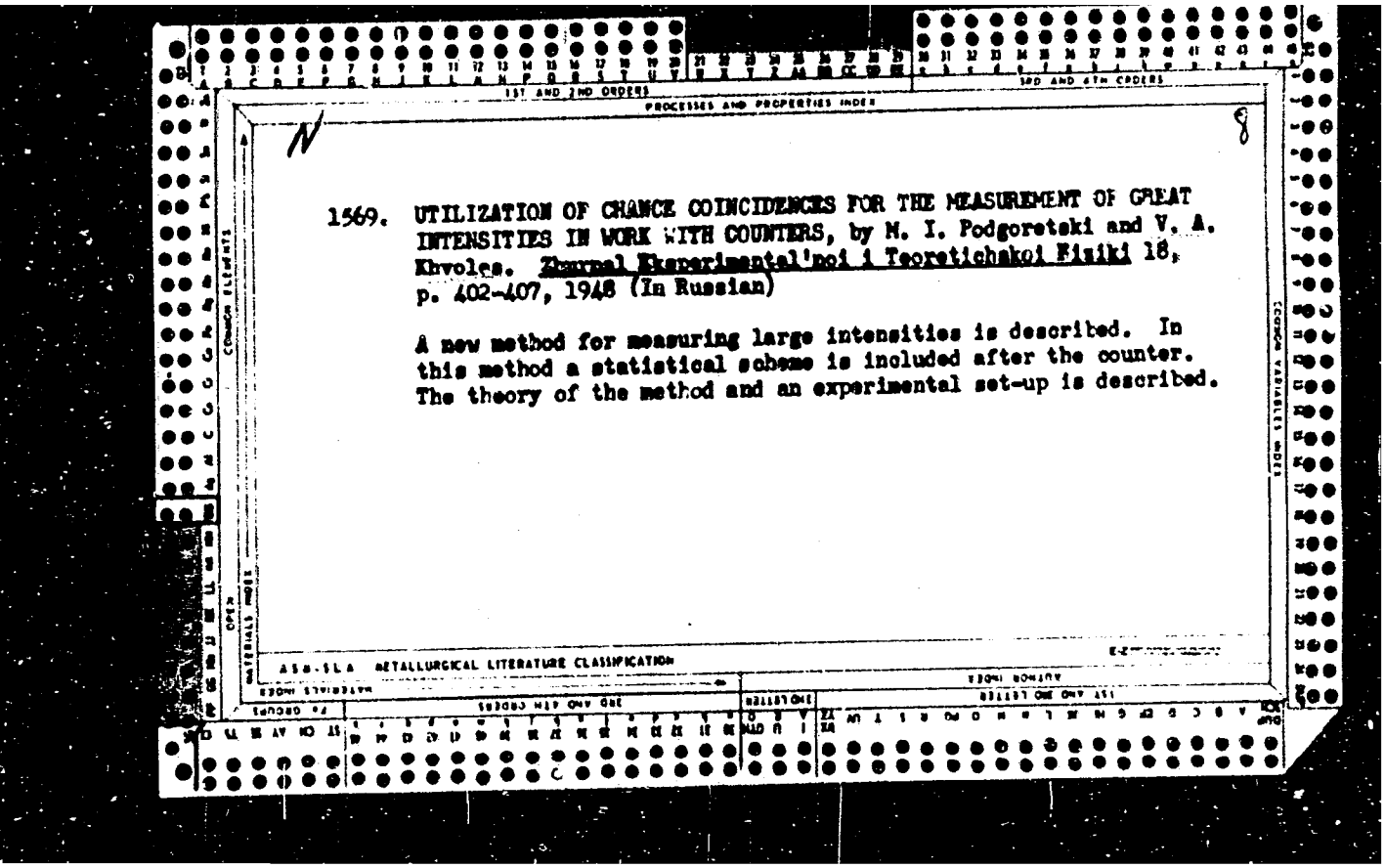
USSR/Mathematics - Calculators Dec 47

"Study of Accidental Coincidences for Measuring High Intensity With Counters," M. I. Podgoretskiy, V. A. Khvoles, 2½ pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVIII, No 7

In cases where too many numbers are registered, system becomes overloaded with result that only each n-th impulse effects output. Principle discussed assumes that calculating machine is free from this fault; therefore it is possible to obtain any coefficient of translation, without difficulty, in apparatus. Submitted by Academician S. I. Vavilov, 24 Jun 1947.

PA 60T35



1569. UTILIZATION OF CHANCE COINCIDENCES FOR THE MEASUREMENT OF GREAT INTENSITIES IN WORK WITH COUNTERS, by M. I. Podgoretski and V. A. Khvoles. Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki 18, p. 402-407, 1948 (In Russian)

A new method for measuring large intensities is described. In this method a statistical scheme is included after the counter. The theory of the method and an experimental set-up is described.

KHVOLES, V. PA 195T103

USSR/Radio - Oscillators Sep 51

"Relaxation Oscillators," V. Khvoles

"Radio" No 9, pp 52-56

Gives the phys principles of operation of relaxation oscillators and considers the choice of parameters of practical circuits, including relaxation oscillators using neon lamps and thyratrons, multivibrators, and blocking oscillators.

195T103

Journal of Experimental and Theoretical Physics, USSR, Vol. 18, No. 4

Dolgoretski, M.I. and Khvoles, V.A. (P.N. Lebedev Physics Institute, U.S.S.R. Academy of Sciences). Utilization of chance coincidences for the measurement of great intensities in work with counters, 402-7

"A new method for measuring large intensities is described. In this method a statistical scheme is included after the counter. The theory of the method and an experimental set-up is described."

Source: GTRSPL, Vol. 1, No. 5

KHVOLES, V.

USSR/ Electricity - Pulsating currents

Card 1/1 Pub. 89 - 24/30

Authors : Khvoles, V.

Title : Action of pulsating EMF on different circuits

Periodical : Radio 3, 51 - 54, Mar 1955

Abstract : The nature of electrical pulsations in general is explained, and an analysis is made of their characteristics under the headings, duration, action of a square voltage impulse on a circuit RC, where R is resistance and C a capacitor, action of pulsating EMF on a circuit consisting of R and L (induction), action of a square radio impulse on an oscillating circuit, duration and emission band, and examples of these situations. Diagrams.

Institution : .....

Submitted : .....

L 37660-66 EWP(k)/EWT(d)/EWP(h) EWP(l /EWP(v) BC/GD

ACC NR: AT6012354 SOURCE CODE: UR/0000/66/000/000/0190/0201

AUTHOR: Gurevich, I. M.; Obolenskiy, V. N.; Portnov, M. L.; Pshenichnikov, A. M.; Khvoles, V. A.

ORG: none

36
B+1

TITLE: Complex tele-information system for industrial plants

SOURCE: Nauchno-tekhnicheskaya konferentsiya po sredstvam promyshlennoy telemekhaniki. Moscow, 1963. Promyshlennaya telemekhanika (Industrial telemechanics); materialy konferentsii. Moscow, Izd-vo Energiya, 1966, 190-201

TOPIC TAGS: remote control system, supervisory control system, industrial automation

ABSTRACT: Developed by the Central Scientific Research Institute of Complex Automation (TsNIIKA), a system for transmission of discrete and continuous information over a distance up to 20 km is briefly described. The system is intended for connecting individual automatic machines and plants with their control computers and also with the dispatcher's desk; it is designed for a chemical combine whose

Card 1/2

Card 2/2

KHVOLES, Ye.A., inzh.

Determination of the length of a spliced-in or cut-out wire section in a span for controlling sag. Elek.sta. 31 no.4:69-71 Ap '60. (MIRA 13:7)
(Electric lines--Overhead)

KHVOLOVSKIY, L.

Leningrad Motordrome. Za rul. no.12:3 D '57. (MIRA 11:1)
(Leningrad--Motorcycle racing)

KHVORIKOVA, A., prepodavatel'

Lecture group in a school. Prof.-tekh.obr. 19 no.10:22 O '62.
(MIRA 15:11)

1. Tekhnicheskoye uchilishche No.3, Voronezh.
(Communist ethics—Study and teaching)

18.7520

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 12, p 56 (USSR) SOV/81-59-12-41617

AUTHOR: Khvorinov, N.I.

TITLE: Solidification and Crystallization of Metals

PERIODICAL: V sb. Zatverdevaniye metallov. Moscow, Mashgiz, 1958, pp 257-274

ABSTRACT: Some phenomena of real crystallization not fitting into the framework of Tamman's theory are considered. D.K. Chernov's viewpoint is confirmed that the broken-off dendrites can become crystallization centers during mixing. The formation of spontaneous crystallization centers has a higher energy threshold than the formation of dendrite branches. The following crystallization mechanism is considered: at the disorderly motion of the liquid metal, the fluctuation of the temperature and heat fields, and also under the effect of liquation, particles of the dendrite skeletons are washed out and broken off. In the absence of overheating these particles are not completely dissolved and crystal nuclei are formed.

Card 1/1

A. Granovskaya

KHVORINOV, N. I.

PHASE I BOOK EXPLOITATION SOV/4544

Soveshchaniye po teorii liteynykh protsessov, 4th

Kristallizatsiya metallov; trudy soveshchaniya (Crystallization of Metals; Transactions of the Fourth Conference on the Theory of Casting Processes) Moscow, Izd-vo AN SSSR, 1960. 325 p. 3,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnologii mashinostroyeniya.

Resp. Ed.: B. B. Gulyayev, Doctor of Technical Sciences, Professor; Ed. of Publishing House: V. S. Rzheznikov; Tech. Ed.: S. G. Tikhomirova.

PURPOSE: This book is intended for metallurgists and scientific workers. It may also be useful to technical personnel at foundries.

COVERAGE: The book contains the transactions of the Fourth Conference (1958) on the Theory of Casting Processes. [The previous 3 conferences dealt with hydrodynamics of molten metals (1955), solidification of metals (1956), and shrinkage processes in castings (1957)]. General problems in the crystallization of metals, including the crystallization of constructional steels, alloy steels with special properties, cast iron, and of nonferrous alloys, are discussed. Recognition is given to D. K. Chernov and N. T. Gudtsov and their students, B. B. Gulyayev and A. G. Spasskiy, for their contributions to the understanding of the basic problems involved in the theory of crystallization of ferrous and nonferrous metals and alloys. Academician A. V. Shubnikov is also mentioned in connection with his work on the planning of research on crystal formation. References accompany several of the articles.

2/8

KHVOROST, P.F.; CHEMCHOBAY, V.T.; KOLESNIKOV, D.G.

Flavone compounds of the ordinary tansy (Tanacetum vulgare L. I). Zhur. ob. khim. 34 no.12:4108-4111 D '64 (MIRA 18:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

KHVOROSTANSKAYA, Ye. M.

KHVOROSTANSKAYA, Ye. M.: "Thermoinsulating material called 'termiz YuzhNII' (investigation of composition and production technology)." Min Higher Education Ukrainian SSR. Kiev Construction Engineering Inst. Kiev, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

Source: Knizhnaya letopis' No. 28 1956 Moscow

KHVOROSTYANSKAYA, Ye. M.

USSR/Chemical Technology -- Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1670

Author: Lerner, S., Lyakhovich, I., Puzanova, L., and Khvorostanskaya, Ye.

Institution: None

Title: The Production of Large Blocks from Vibrated Mixtures

Original Periodical: Stroit. materialy, izdeliya, i konstruktsii, 1956, No 4, 26-28

Abstract: The production of large blocks from vibrated (Tr. Note: blended) silicate mixtures, consisting of sand, lime, and finely ground additives, has been investigated. The particle size distribution of the sand was 30% 1.2-0.6 mm and 70% -0.6 mm. The optimum activated lime content was 5-6% and the moisture 9-11%. Silica brick dust, granulated slag, or flue dust from steam heat electric power stations can be used as finely ground additives (in amounts not exceeding 20%). Vibration was carried out by means of electromechanical vibrators with a frequency of 3,000 cycles per minute and an amplitude of one mm.

Card 1/2

USSR/Chemical Technology -- Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1670

Abstract: Heating was carried out in an autoclave at 8 atm. The heating time for solid blocks was 18.5 hours (including 12 hours soaking at 8 atm); the heating time for hollow blocks was 11.5 hours (including 8 hours soaking at 8 atm). The product dimensions were: length 735-2,190 mm, thickness 300-500 mm.

Card 2/2

KHVOROSTANSKAYA, Ye.M., kand.tekhn.nauk

Low-clinker binders based on lime and marl. Sbor. trud. IUZHNII no.2:5-16 '59. (MIRA 13:9)

1. Yuzhnyy nauchno-issledovatel'skiy institut po stroitel'stvu.
(Binding materials)

KHVOROSTANSKAYA, Ye.M., kand.tekhn.nauk

"Termiz," an insulating and wall material developed by the Southern Research Institute for Industrial Construction. Sbor. trud. IUZHNII no.2:112-125 '59. (MIRA 13:9)

1. Yuzhnyy nauchno-issledovatel'skiy institut po stroitel'stvu.
(Building materials) (Insulation (Heat))

GRIGOR'YEV, V.S., red.; MASLYANSKIY, G.N., inzh., red.;
KIVOROSTANSKAYA, Ye.M., kand. tekhn. nauk, red.;
DONSKOY, Ya.Ye., red. izd-va; LIMANOVA, M.I., tekhn.
red.

[Slags in construction; papers]Shlaki v stroitel'stve; trudy.
Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1962. 227 p.
(MIRA 15:10)

1. Koordinatsionnoye soveshchaniye po pererabotke i ispol'-
zovaniyu metallurgicheskikh shlakov v stroitel'stve, Kharkov,
1961. 2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhi-
tektury Ukrainskoy SSR (for Grigor'yev).
(Slag) (Building materials)

VOLCHANSKAYA, Ye.A., red.; MASLYANSKIY, G.N., red.; PUKHAL'SKIY, G.V., red.; KHVOROSTANSKAYA, Ye.M., red.; VOLKOV, M.I., prof., retsenzent; REZNICHENKO, I.Ye., red.

[Metallurgical slag in the construction industry] Metallurgicheskie shlaki v stroitel'stve. Kiev, Gosstroiizdat USSR, 1964. 235 p. (MIRA 17:5)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

VOLCHANSKAYA, Ye.A., red.; MASLYANSKIY, G.N., red.; TERESHCHENKO, V.A., kand. tekhn. nauk, red.; KHVOROSTANSKAYA, Ye.M., red; GAYDAY, V.K., red.

[Treatment and applications of molten slags] Pererabotka i primenenie shlakovykh rasplavov. Kiev, Budivel'nyk, 1965. 218 p. (MIRA 18:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

PANASENKO, Fedor Lavrent'yevich; KRVORUSTANSKIY, V.M., otv. red.; BELINA, R.A., red.izd-va; ANDREYEV, S.P., tekhn. red.

[Manufacture of cold-rolled sheet steel]Proizvodstvo kholodnokatanoi listovoi stali. Khar'kov, Metallurgizdat, 1962. 302 p. (MIRA 16:2)

(Sheet steel--Cold working)

6.7110
6.9500

S/106/62/000/008/007/009
A055/A101

AUTHOR: Khvorostenko, N.P.

TITLE: On the interference immunity of a method of reception of fading signals with multiplex phase-difference keying

PERIODICAL: Elektrosvyaz', no. 8, 1962, 66 - 68

TEXT: In "n-fold" telegraphy, the probability of faulty reception $P_n(\varphi)$ of each information sending cannot be considered as a sufficiently full criterion of the interference immunity of the communication line. It is necessary also to evaluate the average amount of destroyed information. For calculating $P_n(\varphi)$, the author starts from the formula obtained by V.V. Tsvetnov (Radiotekhnika, v. 12, no. 5, 1957) for the three-dimensional probability density for signals without fading in the Gaussian noise. Assuming that, for signals with fading, the probability density of the signal envelope obeys the Rayleigh law, and that $R(\tau) = 1$, $R(\tau)$ being the correlation coefficient of the instantaneous values of the signal at the moments of the adjacent sendings of duration τ, the author determines the probability density $W_{ph}(\Delta)$ of the phase difference

Card 1/3

of the adjacent sendings, and finds that:

$$P_n(\varphi) = 1 - 2\int_0^{\varphi} W_{ph}(\Delta)\, d\Delta = 1 - \frac{\varphi}{\pi} - \frac{2 \sin\varphi \arcsin\left[\frac{1}{2} + \frac{\cos\varphi}{2\rho}\right]^{1/2}}{\pi\left[\beta^2 - \cos^2\varphi\right]^{1/2}}, \quad (1)$$

where $\beta^2 = \frac{(1+\rho_1)(1+\rho_2)}{\rho_1\rho_2}$; $\rho_1 = \frac{\sigma_0^2}{\sigma_1^2}$; $\rho_2 = \frac{\sigma_0^2}{\sigma_2^2}$; σ_0^2 is the average power of the signal, σ_1^2 and σ_2^2 are, respectively, the average powers of the additive noises at the moments of the preceding and following sendings, Δ is the phase difference of adjacent sendings. With the phase-difference keying, $\beta = \frac{1+\rho}{\rho}$, since $\rho_1 = \rho_2 = \rho$. Assuming next that $R(\tau) < 1$, the author finds:

$$P_n(\varphi) = 1 - \frac{\varphi}{\pi} - \frac{2R(\tau)\sin\varphi \arcsin\left[\frac{1}{2} + \frac{R(\tau)\cos\varphi}{2\rho}\right]^{1/2}}{\pi\left[\beta^2 - R^2(\tau)\cos^2\varphi\right]^{1/2}}. \quad (3)$$

Card 2/3

L 17880-63 EWT(d)/FCC(w)/BDS AFFTC/ASD/ESD-3/APGC/IJP(C)
ACCESSION NR: AP3004269 S/0106/63/000/007/0002/0006

AUTHOR: Khvorostenko, N. P.

TITLE: Information optimum criterion of discrete-information receivers

SOURCE: Elektrosvyaz', no. 7, 1963, 2-6

TOPIC TAGS: discrete information, cybernetics

ABSTRACT: Selecting a criterion of optimum has been a fundamental problem in synthesizing optimum-type receivers. The criterion of maximum reciprocal probability has been conventionally used for synthesizing discrete information receivers. The article offers a new optimum criterion which, in some engineering applications, better meets the requirements of the discrete-information receivers than the maximum reciprocal-probability criterion. With the new criterion, the loss function is $l(x_j, x_i) = \frac{d_{ji}}{h}$, where d_{ji} is the number of binary symbols between the points x_j and x_i in a normalized h-dimensional space. In multiple communication channels, both criteria coincide in their ultimate result — the noise immunity. However, the technical means for attaining the immunity are simpler in the case of

Card 1/2

L 17880-63
ACCESSION NR: AP3004269

the new criterion. Orig. art. has: 11 formulas.

ASSOCIATION: none

SUBMITTED: 27Oct62 DATE ACQ: 08Aug63 ENCL: 00

SUB CODE: CO NO REF SOV: 007 OTHER: 000

Card 2/2

KHVOROSTENKO, N.P.

Interference rejection of optimum higher binary codes. Radiotekhnika 18 no.12:3-9 D '63. (MIRA 17:1)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova.

ACCESSION NR: AP4014633 S/0106/64/000/001/0053/0061

AUTHOR: Khvorostenko, N. P.

TITLE: Noise immunity of diversity reception of fading signals

SOURCE: Elektrosvyaz', no. 1, 1964, 53-61

TOPIC TAGS: noise, noise immunity, radio reception, telegraph reception, phase shift keying, frequency telegraphy, diversity reception, signal fading, fading signal reception

ABSTRACT: Potential and real noise immunities are theoretically determined for a number of diversity-reception communication systems. Gaussian noise, Rayleigh distribution of signal amplitudes in the diversity branches, and no correlation between these signals are assumed. General formulas are developed for these particular cases: ideal binary phase telegraphy with a synchronous reception; ideal diplex phase telegraphy with a synchronous reception; binary

Card 1/2

ACCESSION NR: AP4014633

phase-shift keying system with an autocorrelated reception; diplex phase-shift keying system with an autocorrelated reception; binary frequency telegraphy with a synchronous reception; binary frequency telegraphy with envelope demodulation. The noise immunity is evaluated by the probability density of the likelihood factor for each diversity branch. Orig. art. has: 27 formulas.

ASSOCIATION: none

SUBMITTED: 08Sep62 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: CO NO REF SOV: 006 OTHER: 002

Card 2/2

L 10724-65 EEC-2/EWT(d)/FBS-2/EEC-4/EEC(t)/EED-2 Pn-4/Pp-4/Pac-4 ESD(c)/
RAEM(a)/ESD(dp)/ESD(t)/APGC(b)

ACCESSION NR: AP4045820 S/0106/64/000/009/0018/0027

AUTHOR: Khvorostenko, N. P.

B

TITLE: Noise immunity of the diversity reception of correlated signals

SOURCE: Elektrosvyaz', no. 9, 1964, 18-27

TOPIC TAGS: noise immunity, diversity reception, radio communication, radio reception

ABSTRACT: Noise immunity of the diversity reception is determined for a wide class of telegraph systems having a Gaussian noise, a Rayleigh distribution of the amplitudes of signals received in the diversity branches, and a correlation between the quadrature components of various signals and noise. A conventional receiver, such as that used with independent signal fadings, is assumed. A formula (7) for the probability of an erroneous signal is derived. For numerical calculations, the covariant matrix K, developed by Pierce (Proc. IRE, 1960,

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L 10724-65

ACCESSION NR: AP4045820

no. 1) and Turin (Trans. IRE, 1962, v. CS-10, no. 1), is used. It is applied to the following systems: binary AM synchronous reception, binary FM synchronous reception, same with incoherent demodulation, multiple PM and PSK systems. Orig. art. has: 55 formulas.

ASSOCIATION: none

SUBMITTED: 02Apr64

ENCL: 00

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

Card 2/2

KHVOROSTENKO, N.P.

Interference rejection of a multiplex phase-telegraphy system. Elektrosviaz' 18 no.7:74-77 Jl '64. (MIRA 17:8)

L 3926l-66 EWP-2/EWT(d)/FSS-2/EWT(l)/EWA-2/EWC(k)/EWP-2/EWA(h) Pc-4/Pab-4 IJP(c)

ACCESSION NR: AP5008393 UR/0108/64/019/012/0017/0023

AUTHOR: Khvorostenko, N. P. (Active member)

TITLE: Noise immunity of multiplex PM telegraphy

SOURCE: Radiotekhnika, v. 19, no. 12, 1964, 17-23

TOPIC TAGS: noise immunity, multiplex telegraphy, PM telegraphy

ABSTRACT: The noise immunity of multiplex phase-modulation telegraphy and phase-shift-keying (FSK) telegraphy with Rayleigh-type signal fading were considered in an earlier author's work (Elektrosvyaz', no. 8, 1962). In the present article, the noise immunity of both systems is considered under coherent and autocorrelation reception conditions. The findings are reported: (1) In perfect no-fading channels, the autocorrelation reception of simplex FSK signals and the polarity-comparison reception are practically equal; as multiplexing increases, the difference between the two methods becomes more pronounced;

Card 1/2

with a triplex FSK, the advantages of the second method are already clear; (2) In the case of perfect slow-Rayleigh-fading channels, both reception methods are equal no matter how much multiplexed the channels are; (3) With fast fading and high signal-to-noise ratio, the polarity-comparison method may have a somewhat higher noise immunity; (4) In designing equipment for the polarity-comparison method, the reference wave must be shaped very accurately because even a small phase difference between this wave and the received signal may result in a considerable loss of noise immunity. Orig. art. has: 2 figures and 47 formulas.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi (Scientific and Technical Society of Radio Engineering and Electrocommunication)

SUBMITTED: 22Jan63 ENCL: 00 SUB CODE: EC

NO REF SOV: 003 OTHER: 004

31318-66 EWA(h)/EWT(d)/EWT(l) JM

ACC NR: AP5026859 SOURCE CODE: UR/0108/65/020/011/0011/0014

AUTHOR: Khvorostenko, N. P. (Active member)

ORG: Scientific and Technical Society of Radio Engineering and Electrocommunication (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A. S. Popova)

TITLE: Some mistakes made in the analyses of noise rejection in phase telegraphy systems

SOURCE: Radiotekhnika, v. 20, no. 11, 1965, 11-14

TOPIC TAGS: noise rejection, phase telegraphy

ABSTRACT: Logic mistakes are exposed in ten articles (from "Radiotekhnika" and "Elektrosvyaz' ") and books published in 1962-65 by Soviet authors on phase telegraphy and phase-shift keying; all mistakes are connected with the signal-noise separation subjects. These types of mistakes are described: (1) Unwarranted substitution of thesis; (2) False premise; (3) Proof by unproven presumption (petito principii); (4) Irrelevant inference (non sequitur); (5) Quadruplicated terms (false inference because of two-meaning terms used). Orig. art. has: 11 formulas

SUB CODE: 17 / SUBM DATE: 19Jun65 / ORIG REF: 013 / OTH REF: 000

Card 1/1 UDC: 621.396

L 8784-66 EWT(d)/EWT(l)/EWA(h)/FSS-2 JM

ACC NR: AP5028145 SOURCE CODE: UR/0106/65/000/011/0079/0079

AUTHOR: Khvorostenko, N. P. 44,55

ORG: none

TITLE: Bimultiplicative noise 25

SOURCE: Elektrosvyaz', no. 11, 1965, 79

TOPIC TAGS: radio communication, radio noise 8,44,55

ABSTRACT: When a radio signal not only is reflected by a variable-parameter medium but also propagates in a variable-absorption medium (e. g., signal absorption in the E-layer or AGC combined with selective fading), the concept of "bimultiplicative noise" $u(t) = u_1(t)u_2(t)$ can be used. A formula for the probability of error in a channel subjected to bimultiplicative noise is presented. Orig. art. has: 11 formulas.

SUB CODE: 17 / SUBM DATE: 22Aug64 / ORIG REF: 003 / OTH REF: 000

jw

Card 1/1 UDC: 621.391.814.2

L 09159-67
ACC NR: AP7002312 SOURCE CODE: UR/0106/66/000/006/0001/0009

KhVOROSTENKO, N. P. 20
ORG: none
"Comparative Interference Stability of Amplitude, Frequency and Phase Telegraphy"

Moscow, Elektrosvyaz', No 6, 66, pp 1-9.

ABSTRACT: A general method is presented for evaluation of the relative interference stability of various types of keying in telegraphy, based on the fact that the demodulators used in many communications systems are of identical structure or, at least, can be reduced to identical form. It is determined that with any sort of additive noise, phase telegraphy requires the least power for identical interference stability. Quantitative analysis for the various types of modulation (in binary form) is performed for various communications channels with additive and multiplicative noise. Orig. art. has: 20 formulas and 2 tables. [JPRS: 37,479]

TOPIC TAGS: telegraphy, electric interference

SUB CODE: 17 / SUBM DATE: 10Apr65 / ORIG REF: 008 / OTH REF: 001

Card 1/1 nst UDC: 621.3.019.4

0925 0587

KHVOROSTENKO, S.P. vidpovidal'nyy za vypusk; MARCHKOVA, Ya.F., tekhn.red.

[Economy of Kirovograd Province; a statistical manual] Narodne hospodarstvo Kirovohrads'koi oblasti; statystychnyi zbirnyk. Kirovohrad, 1957. 195 p. (MIRA 11:6)

1. Kirovogradskaya oblast'. Statisticheskoye upravleniye.
(Kirovograd Province--Statistics)

L 10752-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pt-10/Pab-2h IJP(c)/AFETR/BSD/SSD/
ESD(gs)/AEDC(a)/ESD(t)/AFWL
ACCESSION NR: AP4046356 S/0057/64/034/010/1903/1905

AUTHOR: Grizhko, V.M.; Vishnyakov, V.A.; Grishayev, I.A.; Yeremenko, Ye.V.; Kuznetsov, G.F.; Ostrovskiy, Yu.K.; Khvorostenko, V.I.

TITLE: A 40 MeV linear electron accelerator

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.10, 1964, 1903-1905

TOPIC TAGS: linear accelerator, electron accelerator

ABSTRACT: The authors briefly describe a linear accelerator which, operating at 2797.2 Mc/sec, produces 1.5 microsec, 80 mA pulses of 40 MeV electrons at repetition rates of up to 50/sec. The electrons are produced in a two-electrode gun with a tantalum cathode and are accelerated to 5 MeV in an 83 cm long injector containing an experimentally adjusted longitudinal magnetic field for focusing. The principal accelerator is a 450 cm long constant phase velocity iris waveguide. Each of the two sections is fed through a 72 x 34 mm^2 vacuum waveguide by a 20 megawatt klystron amplifier, each excited by the same magnetron oscillator. The working vacuum of better than 5 x 10^{-6} mm Hg is maintained by a battery of titanium pumps. The beam energy can be smoothly varied from 5 to 40 MeV by varying the power supplied to the

1/2

L 10752-65
ACCESSION NR: AP4046356

principal accelerator. The energy spread of the beam at half maximum is 3.6%, and the diameter of the beam is 6 mm. The installation requires 80 kW of power and 4 m^3/hour of cooling water. "The authors express their sincere gratitude to F.S.Goro-khovatskiy, Yu.M.Danayev, V.B.Mufel' and L.S.Dovbush for their participation in the adjustment of various assemblies of the installation." Orig.art.has: 3 figures.

ASSOCIATION: none

SUBMITTED: 16Jan64 ENCL: 00

SUB CODE: NP NR REF SOV: 005 OTHER: 000

2/2

PANASYUK, A.I.; FRIDMAN, V.M.; KHVOROSTETSKIY, V.I.

Synthetic diamonds at the Kiev Automatic Machine-Tool Plant.
Mashinostroitel' no.10:34-35 O '64.

(MIRA 17:11)

CHAYKA, G.V., inzh.; KHVOROSTETSKIY, V.I., inzh.

Diamond centerless lapping of hard-alloy pin gauges. Mashinostroenie no.5:23-24 S-O '65. (MIRA 18:9)

VDOVENKO, V.M.; LAZAREV, L.N.; KUVOROSTIN, Yu.S.

Method of removing Nb^{95} from the radioactive indicator, Zr^{95}.
Radiokhimiia 1 no.3:364 '59. (MIRA 12:10)
(Zirconium--Isotopes) (Niobium--Isotopes)

VDOVENKO, V.M.; LAZAREV, L.N.; KHVOROSTIN, Ya.S.

Mechanism of zirconium extraction by amines from nitrate-oxalate solutions. Radiokhimiia 1 no.4:408-413 '59. (MIRA 13:1)
(Zirconium) (Amines)

L 55978-65 EWT(m)/EPF(c)/EPR/EWP(j)/T/EWP(t)/EWP(b) Pc-4/Pr-4/Ps-4 IJP(c)
JD/RM
ACCESSION NR: AP5018001 UR/0186/64/006/006/0724/0732

AUTHOR: Vdovenko, V. M.; Lakarev, L. N.; Khvorostin, Ya. S.

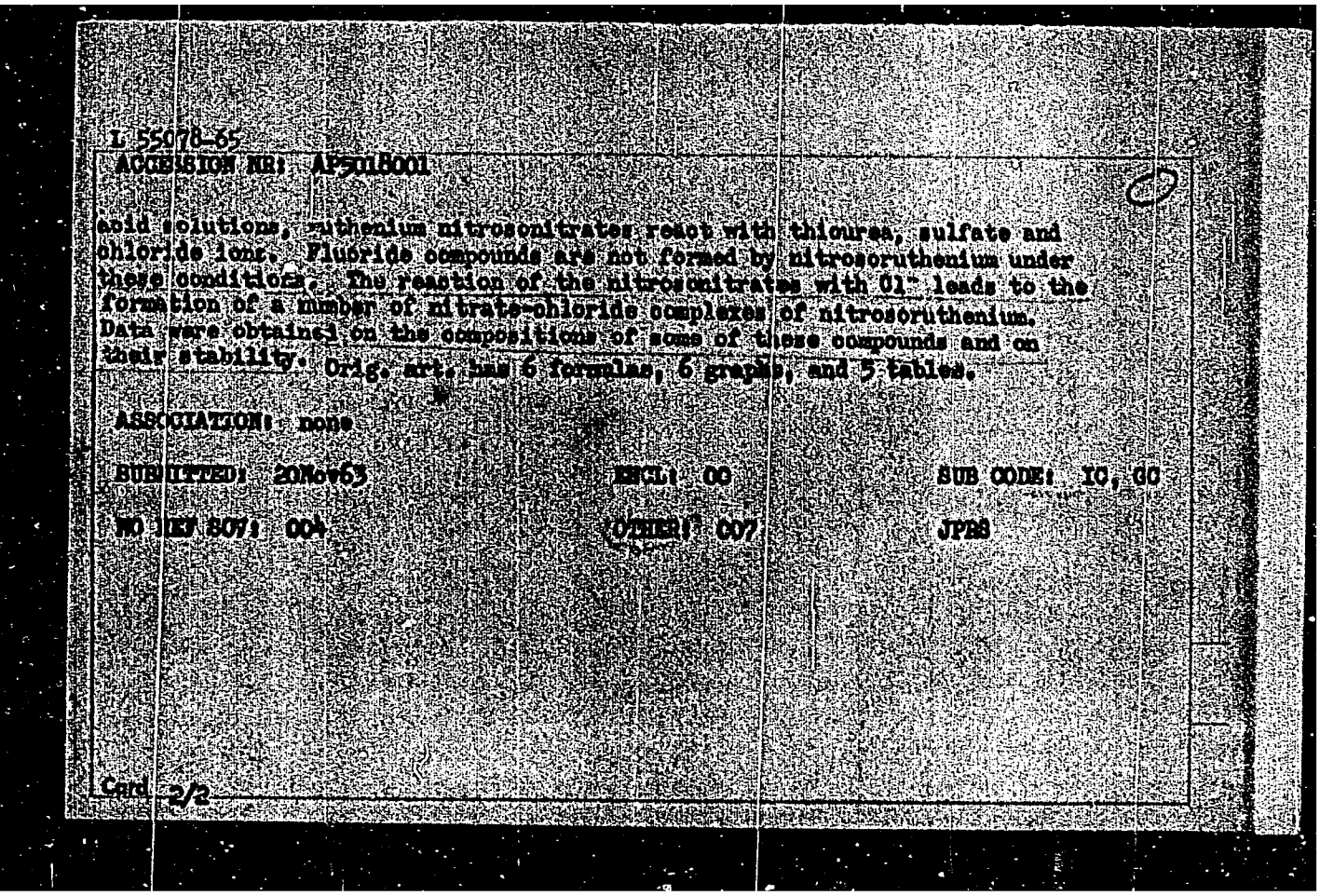
TITLE: Investigation of nitrosoruthenium complexes in solutions

SOURCE: Radiokhimiya, v. 6, no. 6, 1964, 724-732

TOPIC TAGS: ruthenium, nitrate, ruthenium compound, solution property

Abstract: A spectrophotometric method was used to investigate nitrosonitrates of ruthenium, and to study the processes of replacement of coordinated nitrate ions by other ligands. The absorption spectra of ruthenium nitrosonitrates and their distribution between aqueous and organic solvents were studied, utilizing the absorption maximum in nitric acid solutions of nitrosoruthenium at 460 millimicrons. The extraction of ruthenium by solutions of alkyl ammonium nitrates is due to the presence of the so-called RuD form in the aqueous phase. In the organic phase, ruthenium exists in the form of the pentanitrate complex of nitrosoruthenium. It was shown that chromatographic separation of nitrosoruthenium complexes on paper can be widely used as a method of checking on the chemical state of ruthenium in solutions, using methyl isopropyl ketone as the organic solvent. In nitric

Card 1/2



L 55078-65
ACCESSION NR: AP5018001

acid solutions, nitrosonitrates react with thiourea, sulfate and chloride ions. Fluoride compounds are not formed by nitrosoruthenium under these conditions. The reaction of the nitrosonitrates with Cl⁻ leads to the formation of a number of nitrate-chloride complexes of nitrosoruthenium. Data were obtained on the compositions of some of these compounds and on their stability. Orig. art. has 6 formulas, 6 graphs, and 5 tables.

ASSOCIATION: none

SUBMITTED: 20Nov63 ENCL: 00 SUB CODE: IC, GC

NO REF SOV: 004 OTHER: 007 JPRS

Card 2/2

VDOVENKO, V.M.; LAZAREV, L.N.; KHVOROSTIN, Ya.S.

Solutions of $Ru^{(IV)}$ in perchloric and sulfuric acids. Radiokhimiia 7 no.2:232-240 '65. (MIRA 18:6)

KHVOROSTIN, Yu. A.

AID P - 1529

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 25/36

Author : Khvorostin, Yu., A., Eng.

Title : Apparatus for the control of the magnetic field of electromagnetic separators

Periodical : Elek. sta., 26, 3, 53-54, Mr 1955

Abstract : The author describes the apparatus used to prevent falling of metal substances into the pulverized fuel mills. One drawing

Institution: None

Submitted : No date

KHVOROSTOV, S. P.

AID P - 212

Subject : USSR/Engineering

Card : 1/2

Author : Khvorostov, S. P.

Title : For More Qualified Work of Derrick Repair Brigades. (From experience in the construction of derricks with large block of selected materials of the Molotov Bureau of Well Drilling of the United Azneft)

Periodical : Neft. khoz., v. 32, #3, 55-57, Mr 1954

Abstract : The use of large block of selected materials in construction of new oil well derricks is outlined. Special education and training of the repair brigades are suggested for promotion of economy and productivity in the oil fields mass expansion.

Institutions: Main Oil and Gas Prospecting Administration (Glavneftgasrasvedka); Baku Branch of Central Scientific Research Inst. for Mechanization and Organization of Labor in the Petroleum Industry (TsIMT Neft); State

AID P - 212

Neft. khoz., v. 32, #3, 55-57, Mr 1954 (additional card)

Card : 2/2

Inst. for the Planning of Machine-Building Plants for the Petroleum Industry (Giproneftemash).

Submitted : No date

KHVOROSTOV, S.P.; SHAPOVALOV, A.G.

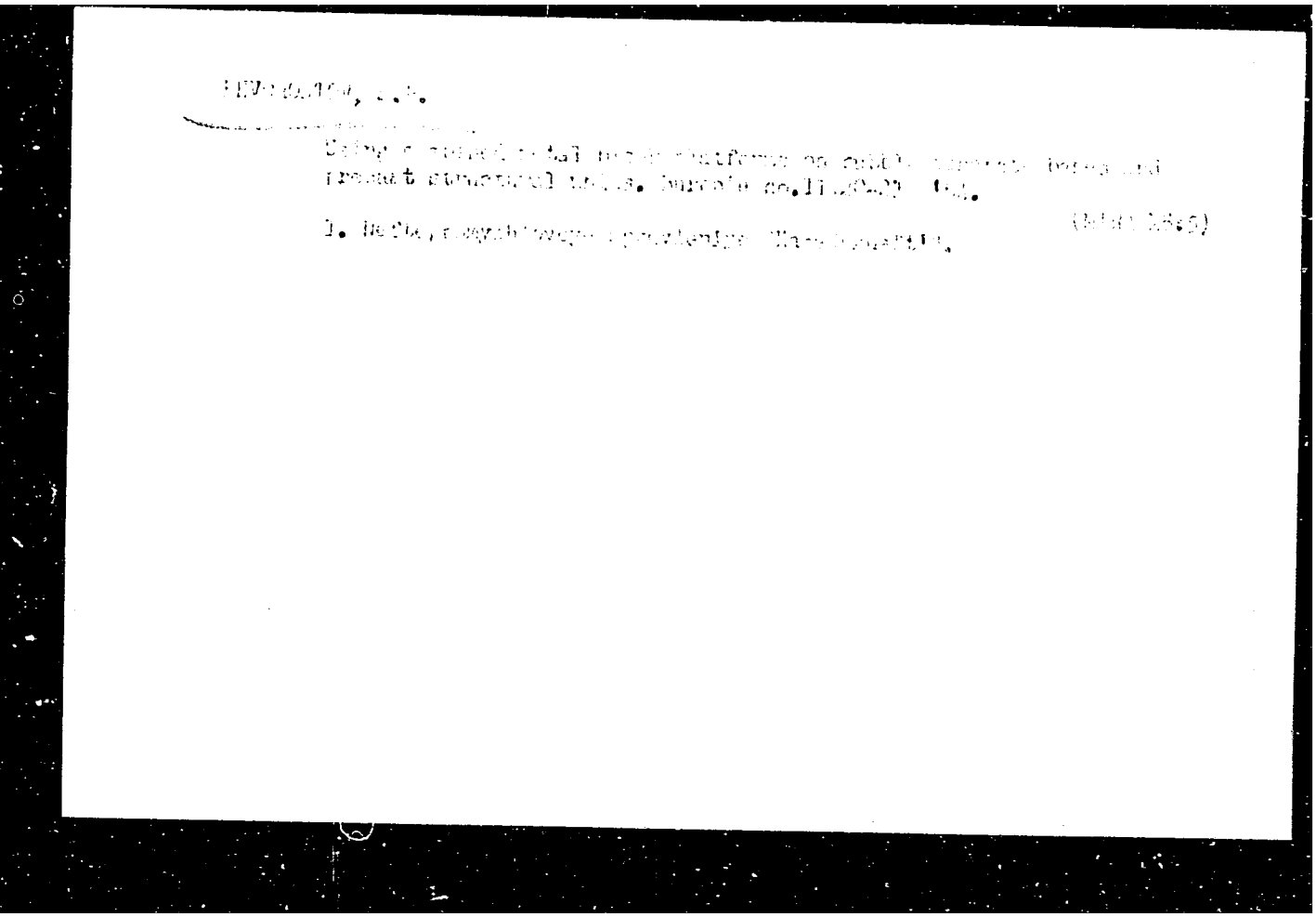
Introduction of industrial methods in constructing rigs and assembling drilling equipment. Azerb.neft.khoz. 35 no.10:9-10 O '56. (MLRA 10:1)

(Oil wells--Equipment and supplies)

KHVOROSTOV, S.; LOGASHKIN, V.

Practice of large-block construction of drilling rigs with a pile foundation. Nov.neft.tekh.: Neftepromdelo no.6:17-23 '54. (MIRA 14:10)

(Oil well drilling rigs)



KHVOROSTOVA, K.G.

Changes in the optic chronaxia of patients with hypertension under the influence of hydrogen sulfide and radon baths. Vop.kur.,fizioter.i lech.fiz.kul't. 25 no.1:52-57 '60. (MIRA 13:5)

1. Iz otdeleniya funktsional'noy diagnostiki (nav. - doktor meditsinskikh nauk G.Ye. Marantidi) TSentral'nogo instituta kurortologii (dir. - kandidat meditsinskikh nauk G.N. Pospelova).
(CHRONAXIA) (HYPERTENSION)
(HYDROGEN SULFIDE--PHYSIOLOGICAL EFFECT) (RADON--PHYSIOLOGICAL EFFECT)

MARANTIDI, G.Ye.; KHVOROSTOVA, K.G.

Central nervous system function in patients with cardiovascular diseases and its changes following treatment with hydrogen sulfide and radon baths. Vop. kur., fizioter. i lech. fiz. kul't. 26 no.3:238-243 My-Je '61. (MIRA 14:7)

1. Iz otdeleniya funktsional'noy diagnostiki (zav. - doktor meditsinskikh nauk G.Ye.Marantidi) TSentral'nogo instituta kurortologii (dir. - kandidat meditsinskikh nauk G.N.Paspelova).
(NERVOUS SYSTEM) (CARDIOVASCULAR SYSTEM--DISEASES)
(HYDROGEN SULFIDE--THERAPEUTIC USE)
(RADON--THERAPEUTIC USE)

KHVOROSTOVA, K.G.

Body reactions in hypertension patients in hydrogen sulfide baths after a dose of bromine and caffein. Vop. kur., fizioter. i lech. fiz. kul't. 26 no.5:415-420 S-O '61. (MIRA 14:11)

1. Iz otdeleniya funktsional'noy diagnostiki (zav. - doktor meditsinskikh nauk G.Ye.Marantidi) TSentral'nogo instituta kurortologii (dir. - kand.med.nauk G.N.Pospelova).
(HYPERTENSION) (BROMINE--PHYSIOLOGICAL EFFECT)
(CAFFEIN--PHYSIOLOGICAL EFFECT) (BATHS, MEDICATED)

KHVOROSTOVA, K.G., kand. med. nauk (Moskva)

Indices of basal and cholesterol metabolism in atherosclerosis patients. Vrach. delo no.2:46-49 F'64 (MIRA 17:4)

1. Otdeleniye funktsional'nykh metodov issledovaniya (zav. - kand. med. nauk Ye.A. Zakharova) TSentral'nogo instituta kurortologii i fizioterapii.

KHVOROSTOVA, Z.M.; KASHMENSKAYA, O.V.

Some problems of Quaternary galaciation in the upper reaches of the Kolyma and Indigirka Rivers. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.27:157-170 '62.

Preglacial and interglacial Quaternary sediments in the upper reaches of the Kolyma and Indigirka Rivers. Ibid.:171-177

(MIRA 17:11)

KASHMENSKAYA, O.V.; KHVOROSTOVA, Z.M.

Studying the character of slopes in the regions of the upper reaches of the Kolyma and Indigirka Rivers for the purpose of detecting recent tectonic movements. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.8:64-77 '64 (MIRA 18:2)

KASHEENSKAYA, Ol'ga Vadimovna; KHVOROSTOVA, Zoya Nikolayevna; KITAYNIK, A.U., red.

[Geomorphological analysis in prospecting for placers (based on a study of the El'gi gold-bearing region in the upper Indigirka Valley)] Gemorfologicheskii analiz pri poiskakh rossypei (na primere El'ginskogo zolotonosnogo raiona v verkhov'iakh reki Indigirki. Novosibirsk, Rod.-izd. otdel Sibirskogo otd-niia AN SSSR, 1965. 165 p. (MIRA 18:6)

LEVANDOVSKIY, G. [Levandovs'kyi, H.], inzh.; KHVOROSTOVSKIY, A. [Khvorostovs'kyi, A.], inzh.

Tunnel kiln and drier for low-output structural ceramic plants. Sil'.bud. 12 no.9:19-21 S '62. (MIRA 15:11)
(Ceramic plants) (Drying apparatus)

KHVOROSTUKHIN, A.I.

Health Day. Zdorov'e 5 no.5:1-3 My '59. (MIRA 12:11)

1. Pervyy sekretar' Tul'skogo oblastnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.
(TULA PROVINCE--HEALTH EDUCATION)

KHVOROSTUKHIN, I.I.; AKYLBEKOV, K.M.

Modification of immunoreactive properties in rabbits following their exposure to x-rays. Zhur. mikrobiol. epid. i immun. 29 no.10: 138 O '58. (MIRA 11:12)

1. Iz kafedry gistologii Kirgizskogo meditsinskogo instituta, Frunze.

(ROENTGEN RAYS, effects,
on immun. reactions in rabbits (Rus))
(IMMUNITY, effect of radiations
x-rays, in rabbits (Rus))

KHVOROSTUKHIN, I. I.

USSR/General Problems of Pathology - Cytotoxins U

Abs Jour : Ref Zhur Biol., No 6, 1959, 27256

Author : Khvorostukhin, I.I.
Inst : -
Title : Antigenic Properties of Articular Cartilage

Orig Pub : Byul. eksperim. biol. i med., 1958, 45, No 1, 90-93

Abstract : The rabbits were immunized with an extract of fresh tissue of tissue preserved under 0° for the duration of 7 days, from cartilage or skin of young rabbits of the same litter. A complement fixation reaction was conducted with the serums of experimental and control animals and with the same antigens which were utilized in immunization. In the serums of rabbits which were immunized with fresh cartilage, the antibody titer was 1"100; 3 rabbits immunized with preserved cartilage the titer was 1 : 10 in 2 and in one CFR was negative. Of 6 rabbits immunized with fresh skin, 5 perished of anaphylactic

Card 1/2

Chair of Histology, Kirgiz Med. Inst.

AKYLBEKOV, K.M.; KHVOROSTUKHIN, I.I.

Age differences in the antigenic properties of the skin. Biul.eksp. biol. i med. 51 no.1:94-96 Ja '61. (MIRA 14:5)

1. Iz kafedry gistologii (zav. - prof. A.A.Braun) Kirgizskogo gosudarstvennogo meditsinskogo instituta (dir. F.N.Nurgaziyeva), Frunze. Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym.
(AGING) (SKIN) (COMPLEMENTS (IMMUNITY))

KHVOROSTUKHIN, I.I.

Stimulation for regeneration of the articular cartilage with fish liver oil and ASD preparation (3d fraction). Biul. eksp. biol. i med. 52 no.10:96-100 O '61. (MIRA 15:1)

1. Iz kafedry gistologii (zav. - dotsent I.I.Khvorostukhin) Stanislavskogo meditsinskogo instituta (dir. - dotsent G.A. Babenko). Predstavlena deystvitel'nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym.

(TISSUE EXTRACTS) (FISH OIL)
(CARTILAGE) (REGENERATION (BIOLOGY))

ACCESSION NR: AR5008617 S/0299/65/000/004/B022/B022

SOURCE: Ref. zh. Biologiya. Svodnyy tom. Abs. 4B171

AUTHOR: Khvorostukhin, I. I.

TITLE: The question of the regeneration of articular cartilage

CITED SOURCE: Nauchn. tr. vyssh. uchebn. zavedeniy LitSSR. Meditsina, no. 5, 1964, 271-273

TOPIC TAGS: tissue regeneration, cartilage regeneration, joint cartilage, femoral epiphysis, knee joint, biogenic stimulus, irradiation

TRANSLATION: The author studied the regeneration of articular cartilage in 68 dogs, 3 months to 10 years of age. In addition, he studied biopsy material from 46 patients with gonitis tuberculosa. In the animals, an injury (1 x 1 cm) was produced in the lower femoral epiphysis reaching the spongiosa (a depth of 0.3-0.8 cm). At the same time, in part of the animals, the cartilage was incised as far as the axial zone without damage to the osseous tissue. The joint capsule and the skin were then sutured, and the limb was immobilized in a plaster bandage, maintaining the function of the knee joint. A number of biogenic stimuli (powdered

Card 1/2

L 45094-65
ACCESSION NR: AR5008617

of 200 r) were also used. Specimens for microscopic study were taken during the first 2 months and after 3-12 months. When the cartilage was damaged without disrupting the integrity of the underlying osseous tissue, there was no regeneration of the articular cartilage. In experiments in which an injury was inflicted extending down to the spongiosa without administration of biogenic stimuli, the defect was filled in with a blood clot - after 3-4 days in young animals and after 3-12 months (sic) in older animals. By the 20th day, and by the 10th day with the use of biogenic stimuli, the defect was filled in with chondroplasts. The regenerated tissue consisted of 3 layers: a superficial layer of fibrous connective tissue, an intermediate layer containing the remnants of the clot with blood vessels, and a third layer of poorly differentiated tissue with trabeculae. Complete regeneration set in after 10-12 months, or after 6-8 months with the use of biogenic stimuli. In the biopsy material, regeneration was detected in patients from 10 to 16 years of age. B. Kozhevnikov

SUB CODE: 18 ENCL: 00

Card 2/2

KHVOROSTUKHIN, L. A.

Dissertation: -- "Calculation of the Forces in High-Speed Cutting on the Basis of the Physicomechanical Characteristics of Metals." Cand Tech Sci, Tomsk Polytechnic Inst, Tomsk, 1953. (Referativnyy Zhurnal--Mekhanika, Moscow, Jun 54)

SO: Sum 318, 23 Dec. 1954

ACC NR: AM6032372 Monograph UR/

Belousov, A. I. (Docent, Candidate of Technical Sciences); Bobrik, P. L. (Docent, Candidate of Technical Sciences); Rakhman-Zade, A. Z. (Candidate of Technical Sciences); Silin, S. S. (Docent, Candidate of Technical Sciences); Uspenskiy, N. V. (Docent); Khvorostukhin, L. A. (Docent, Candidate of Technical Sciences); Sheryshev, V. I. (Candidate of Technical Sciences)

Thermal phenomena and machinability of aircraft materials (Teplovyye yavleniya i obrabatyvayemost' rezaniyem aviatsionnykh materialov) Moscow, Izd-vo "Mashinostroyeniye," 1966. 178 p. illus., biblio. (At head of title: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR) Errata slip inserted. 2400 copies printed.

Series note: Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy, vyp. 64

TOPIC TAGS: heat-resistant steel, heat-resistant alloy, heat generation, heat phenomena, gear threading, thread grinding, aircraft material, material machinability, metal machining

Card 1/3 UDC: 621.910.71:669.14.018.45

ACC NR: AM6032372

PURPOSE AND COVERAGE: This book is intended for engineering personnel of machine-building plants, scientific research institutes and plant laboratories. It may also be useful for students of schools of high technical education specializing in technology. The book reviews the most important problems of heat generation in the process of machining various aircraft materials and its effect on material machinability. New methods of machining procedure are discussed on the basis of analysis of physical and mechanical properties of materials. Theoretical analysis of heat-affected zones in machining is presented along with examples of its calculation. Also discussed are specific thermal phenomena and the process of machining light-weight and copper alloys at a speed up to 10,000 m/minute. Separate chapters are devoted to an analysis of thermal phenomena and machinability relative to gear threading at thread grinding. Chapters I and IV are written by Docent P. I. Bobrik, Cand. of Tech. Sciences; Ch. II. by Docent A. I. Belousov, Cand. of Tech. Sciences; Ch. III by Docent L. A. Khvorostukhin, Cand. of Tech. Sciences; Ch. V. by Docent S. S. Silin, Cand. of Tech. Sciences; Ch. VI. by Docent N. V. Uspensky; Ch. VII by V. I. Sheryshev, Cand. of Tech. Sciences; and Ch. VIII by A. Z. Rakhman-Zade, Cand. of Tech. Sciences.

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ACC NR: AM6032372

SUB CODE: 13/ SUBM DATE: 05Mar66/ ORIG REF: 065/ OTH REF: 007/

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ROZENBERG, A.M., professor, doktor tekhnicheskikh nauk; KHVOROSTUKHIN, L.A., aspirant.

Equation of the cutting force in high-speed cutting of steel. Vest. mash. 34 no.1:70-74 Ja '54. (MLRA 7:2)
(Metal cutting)

USSR/Physics - Plastic deformation FD-3047

Card 1/1 Pub. 153 - 16/23

Author : Rozenberg, A. M.; Khvorostukhin, L. A.

Title : Hardness and stress in a plastically deformed body

Periodical : Zhur. tekh. fiz., 25, February 1955, 313-322

Abstract : The authors consider the experimental verification of the connection between hardness and stress in the cutting of metals and some consequences of this relationship, taking into account the cutting force from the hardness of the chips. They remark that measurement of hardness by impression is acquiring wide-spread use and has permitted the development of methods of sufficiently accurate determination of such mechanical characteristics of metals as flow limit, limit strength, true resistance to rupture, coefficient of toughening, and even the construction of schematized diagrams of tension (N. N. Davidenko, ibid., 8, 7-8, 1943; M. P. Markovets, ibid., 19, 3, 1949). They propose that the measurement of hardness of a preliminarily deformed body can definitely determine the stress of preliminary plastic deformation and that a functional dependence of normal stress sigma and tengential stress tau upon hardness H must be general for all metals and for various kinds of deformations. Ten ref.

Submitted : December 16, 1953

KHVOROSTUKHIN, Lev Alekseyevich; PROMPTOV, Aleksandr Innokent'yevich; PETRENKO, N.P., red.; KOVALEV, S.R., tekhn. red.

[Turning of hard-to-machine steels] Tochenie trudnoobrabatyvaemykh stalei. Irkuts, Irkutskoe knizhnoe izd-vo, 1959. 25 p. (MIRA 14:10)

(Turning) (Steel alloys)

L 48122-65 EWT(m)/EWP(v)/EWA(d)/T/EWT(t)/EWP(k)/EWP(z)/EWP(b) Pr-4 RAW/JD
ACCESSION NR: AP5008893 S/0145/65/000/001/0161/0167

AUTHORS: Khvorostukhin, L. A. (Candidate of technical sciences, Docent); Rakhman-Zade, A. Z. (Aspirant)

TITLE: Determination of the extent of chip deformation from its hardness

SOURCE: IVUZ. Mashinostroyeniye, no. 1, 1965, 161-167

TOPIC TAGS: cutting rate, metal cutting, chip deformation, metal property, 12KhN3A alloy, 1Kh18N9T alloy, AMG-7 alloy

ABSTRACT: The relationship between the relative shear during cutting, the physico-mechanical properties of the material in compression, and the hardness of the chip are presented and experimentally evaluated for metals 12KhN3A, 1Kh18N9T, and AMG-7 at speeds up to 5000 m/min, and tool angles $\gamma = -10$ to $+20^{\circ}$. Based on equations published by A. Z. Rakhman-Zade (Rezaniye metallov na sverkhvysokikh skorostyakh "Yangi tekhnika," Tashkent, 1964, No. 4), the relative shear ε can be expressed as

$$\varepsilon = \sqrt{0{,}27\left(H_p \frac{c+1}{B}\right)^2}$$

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(where H_p = chip hardness, B and C are constants in

$$\sigma = B\varepsilon_{ocm}^{C}$$

which holds during compression of a material and characterizes its physico-mechanical properties; B = 117, 83 and 49; C = 0.335, 0.103, 0.24 for 1Kh18N9T, 12KhN3A and AMG-7 respectively). The relative shear is also given by

$$\varepsilon_p = \frac{\psi - 2\sin\gamma - 1}{\cos\gamma},$$

(where γ = frontal tool angle, ψ = chip shrinkage). During the experiments the chip shrinkage was measured by weighing, the relative shear was calculated, and the hardness was also measured. It was found that the chip shrinkage decreases with speed to 500 m/min and then becomes independent of speed or tool angle (for all three metals), indicating that a minimum chip size is reached. Experimental values of H versus relative shear ε_p showed a linear relationship for all three metals (1Kh18N9T - H = 300 - 480 at ε_p = 1.2 - 2.8; 12KhN3A - H = 270 - 300 and AMG-7 - H = 130 - 180 at ε_p = 1.2 - 2.8). Based on

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these results, the relative shear as a function of cutting speed can be plotted directly from hardness measurements. Excellent correspondence between experimental values and theoretical relations was found, indicating that the $\xi = f(H)$ equation can be used when normal relative shear measurements cannot easily be made. Orig. art. has: 2 formulas and 6 figures.

ASSOCIATION: none

SUBMITTED: 07Jul64 ENCL: 00 SUB CODE: IE, MM

NO REF SOV: 003 OTHER: 000

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KHVOROSTUKHNINA, N.A.

PHASE I BOOK EXPLOITATION SOV/3559

Akademiya nauk SSSR. Institut metallurgii. Nauchnyy sovet po probleme zharoprochnykh splavov

Issledovaniya po zharoprochnym splavam, t. 5 (Investigations of Heat-Resistant Alloys, Vol 5) Moscow, Izd-vo AN SSSR, 1959. 425 p. Errata slip inserted. 2,000 copies printed.

Ed. of Publishing House: V.A. Klimov; Tech. Ed.: I.F. Kuz'min; Editorial Board: I.P. Bardin, Academician, G.V. Kurdyumov, Academician, N.V. Ageyev, Corresponding Member, USSR Academy of Sciences (Resp. Ed.), I.A. Oding, I.M. Pavlov, and I.F. Zudin, Candidate of Technical Sciences.

PURPOSE: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses in metallurgy.

COVERAGE: This book, consisting of a number of papers, deals with the properties of heat-resisting metals and alloys. Each of the papers is devoted to the study of the factors which affect the properties and behavior of metals. The effects of various elements such as Cr, Mo, and V on the heat-resisting properties of various alloys are studied. Deformability and workability of certain metals as related to the thermal conditions are the object of another study described. The problems of hydrogen embrittlement, diffusion and the deposition of ceramic coatings on metal surfaces by means of electrophoresis are examined. One paper describes the apparatus and methods used for growing monocrystals of metals. Boron-base metals are critically examined and evaluated. Results are given of studies of interatomic bonds and the behavior of atoms in metal. Tests of turbine and compressor blades are described. No personalities are mentioned. References accompany most of the articles.

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POPOV, K.V.; KHVOROSTUKHINA, N.A.

Effect of hydrogen on carbon-low steel during its cathodic polarization in the electrolyte. Izv. Sib. otd. AN SSSR no.8:39-42 '58.
(MIRA 11:10)

1.Vostochno-Sibirskiy filial AN SSSR.
(Steel--Hydrogen content)
(Polarization (Electricity))

KHVOROSTUKHINA, N. A.; RUMYANTSEV, Yu. V.; SKOBEYEV, I. K.

Volatility of metallic indium. Trudy Vost. Sib. fil. AN SSSR no.41:67-71 '62. (MIRA 15:10)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.

(Indium) (Vapor pressure)

RUMYANTSEV, Yu. V.; KHVOROSTUKHINA, N. A.; SKOBEYEV, I. K.

Interaction between metallic indium and sulfur anhydride. Trudy Vost. Sib. fil. AN SSSR no.41:91-99 '62.

(MIRA 15:10)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.

(Indium—Metallurgy)
(Metals, Effect of temperature on)

KHVOROSTUKHINA, N. A.; SKOBEYEV, I. K.

Pressure of the dissociation of indium sulfide. Trudy Vost. Sib. fil. AN SSSR no.41:72-77 '62. (MIRA 15:10)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.

(Indium sulfide) (Dissociation)

KHVOROSTUKHINA, N. A.

Pressure of the dissociation of indium oxide. Trudy Vost. Sib. fil. AN SSSR no.41:78-82 '62. (MIRA 15:10)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.

(Indium oxide) (Dissociation)

KHVOROSTUKHINA, N. A.; RUMYANTSEV, Yu. V.; SKOBEYEV, I. K.

Thermal decomposition of indium sulfate. Trudy Vost. Sib. fil. AN SSSR no.41:83-90 '62. (MIRA 15:10)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.

(Indium sulfate) (Thermodynamics)