DYMSHITS, L. A., prof.; BELEVSKIY, A. G., kand. med. nauk

Orbital lesions in acute neoplastic leucoses in children (chloroma, sarcoleukemia of the orbit). Vest. oft. no.5:35-45 '61.

(MIRA 14:12)

1. Gospital'naya pediatricheskaya klinika (zav. - deystvitel'nyy chlen AMN SSSR prof. A. F. Tur) i kafedra glaznykh bolezney (zav. - prof. V. I. Grigor'yeva) Leningradskogo pediatricheskogo meditsinskogo instituta.

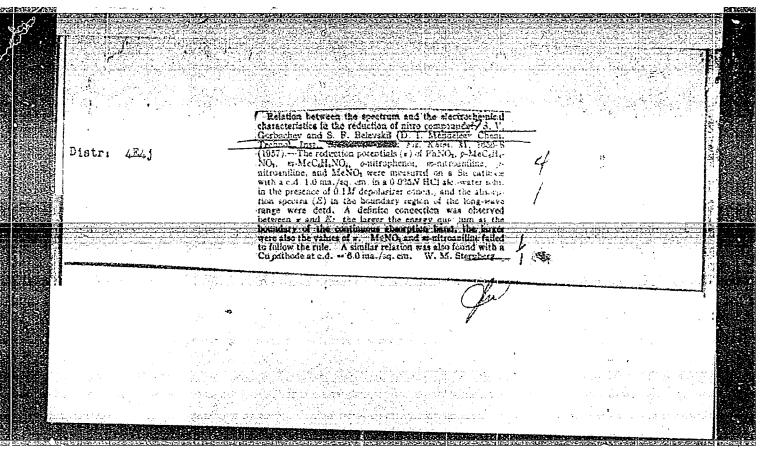
(ORBIT(EYE)_TUMORS) (LEUKEMIA) (CHLOROMA)

DYMSHITS, L. A., prof.; DROZDOVA, M. V., dotsent; BELEVSKIY, A. G., kand. med. nauk; TITOV, A. I.

Lesion of the eyes in marble disease (Albers-Schonberg disease). Vest. oft. no.2:52-55 '62. (MIRA 15:4)

1. Gospital'naya pediatricheskaya klinika (zav. - deystvitel'nyy chlen AMN SSSR prof. A. F. Tur) i kafedra glaznykh bolezney (zav. - prof. V. I. Grigor'yeva) Leningradskogo pediatricheskogo meditsinskogo instituta.

(BONES-DISEASES) (EYE-DISEASES AND DEFECTS)



AUTHORS:

Gorbachev, S. V., Belevskiy, S. F. SOV/ 76-32-6-18/46

TITLE:

The Polarization During the Cathodic Reduction of Nitro Compounds in Connection With the Problem Concerning the Ratio Between the Electrochemical and Photochemical Processes (Polyarizatsiya pri katodnom vosstanovlenii nitrosoyedineniy v svyazi s problemoy sootnosheniya mezhdu elektrokhimicheskimi i fotokhimicheskimi protsessami)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 6, pp. 1304-1312

(USSR)

ABSTRACT:

Proceeding from a general consideration of electrochemical processes, in which the fact is stressed that the activation energy represents the degree of excitation of the electron shell, an analogy is expected to exist between the results of electrochemical and spectroscopic investigations of systems. The transition of the electron by an external action is said to be the common elementary act of both processes, the specific aspects of both processes, however, having to be taken into account. N. N. Beketov (Ref 1), Baur (Ref 3), N. Ye. Kho muto v [Ref 4), Maccol (Ref 7) and Lyons (Ref 8), as well as A. Pullman, B. Pullman and G. Berthier (Ref 11),

Card 1/4

The Polarization During the Cathodic Reduction of Nitro Compounds in Connection With the Problem Concerning the Ratio Between the Electrochemical and Photochemical Processes

Watson and Matsen (Ref 12), Bergman (Ref 13) and Hoijtink and van Schooten (Ref 14) dealt with an analogy between electrochemical and photochemical processes. In the present investigation mainly aromatic nitro compounds are reduced on solid cathodes in order to study the influence of the cathode material on the course taken by the process and to approach real conditions in the electrolysis. Views adopted by A. N. Terenin (Ref 15), by N. A. Izgaryshev and A. A. Petrova (Ref 17) and data by S. A. Voytkevich (Ref 18) are mentioned and discussed. Investigations were conducted with the below mentioned compounds at copper and tin electrodes at various temperatures. The experimental technique is described. The fact is mentioned that according to A. A. Petrova (Ref 21) the reduction product of nitromethane of a reduction at 25° on tin cathodes in an hydrochloric acid medium contains β -methylhydroxylamine as a basic product. According to the experimental results the depolarizing effect of the nitrocompounds on a tin cathode is increased in the

Card 2/4

_SOV/ 76-32-6-18/46

The Polarization During the Cathodic Reduction of Nitro Compounds in Connection With the Problem Concerning the Ratio Between the Electrochemical and Photochemical Processes

following order: n-nitroaniline-o-nitrophenol-m-nitrophenol-n-nitrotoluene-m-nitroaniline-nitrobenzene-nitromethane.

For the copper cathoda the order: n-nitroaniline-m-nitroaniline-m-nitrophenol-n-nitrotoluene-o-nitrophenol-nitrobenzene-nitromethane is given. A complicated incluence of
temperature upon the velocity of the electrode reaction was
found. This results in the first that no definite conclusions
can be drawn as to the nature of polarization. The activation
energy, which was determined independently of the potential
is given to be 4500 cal, which corresponds to the effective
activation energy of a diffusion process. From the evidence
obtained it is concluded that in the case under consideration
the concentration polarization is the decisive factor in
the electrode process. There are 6 figures, 2 tables, and
21 references, 6 of which are Soviet.

Card 3/4

SOV/76-32-6-18/46

The Polarization During the Cathodic Reduction of Nitro Compounds in Connection With the Froblem Concerning the Ratio Between the Electrochemical and Photochemical Processes

ASSOCIATION: Khimiko-tekhnologicheskiy institut im. D. i. Mendeleyeva,

Moskva

(Moscow, Chemical and Technological Institute imeni D. I.

Mendebyev)

SUBMITTED: January 31, 1957

1. Nitro compounds--Reduction 2. Cathodes--Performance

3. Nitro compounds--Polarization 4. Electrochemistry

5. Photochemistry

Card 4/1

BELEVSKIY, S. F., Candidate of Chem Sci (diss) -- "On the interrelationship between spectral and electrochemical characteristics in investigating the processes of reducing certain nitro compounds". Moscow, 1959. 11 pp (Min Higher Educ USSR, Moscow Order of Lenin Chem-Tech Inst im D. I. Mendeleyev), 150 copies (KL, No 20, 1959, 109)

83488 s/081/60/000/013(I)/002/014 A006/A001

5.4500

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 13(I), p. 74, # 51262

AUTHORS:

Gorbachev, S. V., Belevskiy, S. F.

TITLE:

Light Absorption Potentials of Some Organic Nitrocompounds Reduction

PERIODICAL:

Tr. Mosk. khim.-tekhnol. in-ta im. D. I. Mendeleyeva, 1959, No. 26,

pp. 180-190

TEXT: For the purpose of stablishing a correlation between electrochemical and photochemical processes, the authors compare the results of measuring the reduction potentials E (determined from polarization reduction curves on Sn, Cu or Hg cathode) and the ultraviolet spectra of nitromethane (I), nitrobenzene (II), n-nitrotoluene (III), m- and o-nitrophenol (IV and V) d-nitronaphthalene (VI), m and n-nitroaniline (VII and VIII) in aqueous or aqueous-alcohol solutions. The linear dependence between the potential E and the quantum energy (hv) at the longwave absorption edge was revealed; both quantities varied "antibathetically" (antibatno). The quantum energy hv dropped in the I - VIII series. The authors believe that the correlation obtained may be explained on the basis of the

Card 1/2

83488 S/081/60/000/013(I)/002/014

Light Absorption and Potentials of Some Organic Nitrocompounds Reduction

photoreduction mechanism in the presence of an electron donor. Polarization measurements of I at 25 - 55°C yield an effective activation energy value of 4,500 cal. Consequently the concentration polarization is, under the given conditions, the determining factor of the electrode process of reduction of I.

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

Card 2/2

5(4) AUTHORS:

Gorbachev, S. V., Belevskiy, S. F.

SOV/76-33-5-31/33

TITLE:

On the Interrelation Between the Energy of Electron Excitation and the Energy of the Electroreduction of Aromatic Molecules (O sootnosheniyakh mezhdu energiyey elektronnogo vozbuzhdeniya i energiyey elektrovosstanovleniya e-omatiches-

kikh molekul)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5,

p 1154 (USSR)

ABSTRACT:

In their investigation (Ref 2) the authors tried to find a relation between the spectral and the electr.chemical characteristics of the reduction of substituted nitrobenzenes, the reduction potential and the energy of the quantum at the adsorption limit: E red * const - khy. This assumption is attacked by Z. R. Grabovskiy (Ref 1). The authors admit that the assumption of comparable processes in electroreduction and light absorption of nitro compounds is a hypothesis. But the formula set up is empirically guaranteed and is not disproved by Grabovskiy. There are 2 Soviet references.

Card 1/2

On the Interrelation Between the Energy of Electron SOV/76-33-5-31/33 Excitation and the Energy of the Electroreduction of Aromatic Molecules

SUBMITTED: September 13, 1958

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ACC NR. AP700008 SOURCE CODE: UR/0076/66/040/011/2764/2770 AUTHOR: Van Ven-sin'; Bugayenko, L. T.; Belevskiy, V. N. ORG: none TITLE: Radiation chemistry of chlorine-oxygen compounds. VI. olysis of solid perchlorates SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 11, 1966, 2764-2770 TOPIC TAGS: solid perchlorate, radiolysis, gamma irradiation, perchlorate ion, radiolysis product, radiation duced chemical reaction chlorine compound ABSTRACT: A study has been made of radiation-induced chemical reactions in solid NaClO4 and NaClO4. H2O at -196-20C, and in solid Ba(ClO4)2. 3H2O and Mg(ClO4)2 at room temperature. Purified poly-Ba(C104)2.5 n_2 0 and Mg(C104)2 at room temperature. Furified polycrystalline perchlorate specimens were γ -irradiated from a Co⁶⁰ source (dose rate, -3.10¹⁶ ev/g.sec). The irradiated specimens were dissolved in water and analyzed for ClO₂, for Cl⁻, ClO⁻, and ClO₂⁻ ions, and for the sum of the reduction products of the ClO₄⁻ ion by methods described earlier by the authors (Zh. fiz. khimii, 40, 2094, 1965). The concentration of ClO₃⁻ ions was determined from the balance. The results of the study, given in graphical and tabular form, indicate that: 1) the main radiolysis product of the ClO, ion is the ClO, ion. Cord 1/2 UDC: 541.15

share of the cation to the in solid salexcitation of some of communications.	e cation, as a le anion. A late is proposed the perchlopounds of industrial in the perchasis reviewed by	ion, ClO ₂ an in Cl ⁻ ions a result of t mechanism of ed. This mecorate ion as termediate value Professor N	he transfer of the radiolysi hanism involv a first step,	ial to the of energy; s of percl es ionizat and redox	electron from the nlorate io tion and conver-	
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Card 2/2						

BUGAYENKO, L.T.; BELEVSKIY, V.N.

Reaction of thermalized electron in frozen aqueous solutions.

Dokl. AN SSSR 164 no.1:127-130 S 165. (MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Submitted February 26, 1965.

nee imi	AP5027186 SOURCE CODE: UR/0076/65/039/010/2589/2591
AUTHOR:	Belevskiy, V. N.; Bugayenko, L. T.
₩	scow State University im. M. V. Lomonosova (Moskovskiy gosudarstvennyy uni-
versitet	
	⁴ 이용 등 등 등을 통해 보면 가는 사람들이 되었다. 그는 이 사람들이 되었다. 그는 사람들이 되었다.
	Formation and stabilization of hydrogen atoms in frozen acidic aqueous
solution	3
SOURCE	Zhurnal fizicheskoy khimii, v. 39, no. 10, 1965, 2589-2591
	uch a series of the series of
	GS: hydrogen, irradiation effect, gamma irradiation, hydrogen ion, electron
열 그는 기계의 중요한	etic resonance, aqueous solution, hydrogen atom reaction, electron spin
resonanc ABSTRACT	: Experimental data obtained by electron spin resonance are reported on the
formation	n of hydrogen atoms in solutions of NaClO ₄ , HClO ₄ and a series of other acids
irradiat	ed with Cobu gamma rays at 77K. The yield of H atoms was found to depend
primaril	y on the concentration of hydrogen ions, not ClO ₄ - ions. Apparently, in utions H atoms are formed chiefly by the reaction
acke box	e^{-} + H_20^+ \rightarrow H + H_20 .
	e main condition of the formation and subsequent stabilization of H atoms in
aqueous	solutions is the presence of a sufficiently high hydrogen ion concentration.
of the a	nd condition of the stabilization of H atoms is the stability of the anion cid toward the H atom. Another condition of stabilization of H atoms is the
	of a complex anion whose geometrical configuration permits their trapping.
Card 1/2	UDC: 541.15

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	ACC NR: AP5027186	
	Orig. art. has: 2 figures and 1 table.	
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L 35849-66 EWP(j)/EWT(m)/T RM/WW/JWD ACC NR AP6014894 UR/0076/65/039/012/2958/2961 SOURCE CODE: AUTHOR: Belevskiy, V. N.; Bugayenko, L. T. 49 ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy b gosuderstvennyy universitet) Stabilization of a solvated electron in frozen neutral aqueous solutions SOURCE: Zhurnel fizicheskoy khimii, v. 39, no. 12, 1965, 2958-2961 TOPIC TAGS: electron, aqueous solution, absorption spectrum, perchlorate, sodium compound, x ray irradiation, gamma irradiation ABSTRACT: The article reports the results of an investigation of the absorption spectra in the visible and ultraviolet regions, in frozen concentrated aqueous solutions of sodium perchlorate/and other salts, irradiated with x rays and gamma rays. The solutions to be irradiated were frozen with liquid nitrogen in flat quartz cells with a thickness of 3 mm. The resulting glasses were transparent in the region from 250 to 1200 m μ . During measurement of the spectra with a type SF-4 spectrophotometer the cells were placed in a quartz Dewar vessel filled with liquid nitrogen. All irradiations and measurements were done at 770K. In individual cases, the electron paramagnetic resonance spectrum Card 1/2 UDC: 541.515

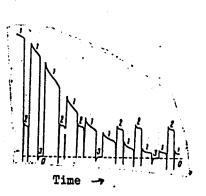
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RM/WW/JWD EWT(m)/EWP(j)/T L 36504-66 SOURCE CODE: UR/0020/66/168/001/0122/0125 ACC NR: AP6015092 AUTHORS: Belevskiy, V. N.; Bugayenko, L. T.; Golubev, V. B. ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet) TITLE: Kinetics of the decomposition of radicals in frozen aqueous solutions of NaC1O, and HC1O, SOURCE: AN SSSR. Doklady, v. 168, no. 1, 1966, 122-125 TOPIC TAGS: free radical, chemical kinetics, electron spin resonance ABSTRACT: Kinetics of the disappearance of the hydrogen atoms (I) and hydroxyl (II) and chlorine trioxide (III) radicals in a frozen aqueous solution of NaC104 and HC104 irradiated with Co 4 -rays were investigated by means of ESR. Such a study should clarify the mechanism by which the molecular products of radiolysis are formed. Solutions were frozen in glass ampules 2--2.5 mm thick and irradiated with γ -rays in doses of $\sim 3 \times 10^{16}$ ev/ml/sec at -1960. Modification of the continuous method described by V. B. Golubev (ZhFKh, 38, 2320, 1964) was employed in following the reaction kinetics. A typical decomposition curve is shown in Fig. 1. For short reaction times the process was strictly of second order for I and III, but of mixed order for II. UDC: 1/2 Card

L 36504-66

ACC NR. AP6015092

Fig. 1. Typical disappearance curves for radicals at -140C in 5 M HC10₄: 1 - signal from test sample; 2 - signal from standard; 3 - calibration line.



For an extended reaction time the process was of the first order for all investigated radicals. Activation energies for the disappearance of I and III were determined, and it was found that the activation energy of the disappearance of H in HC10₄ is twice that in NaC10₄. This paper was presented by Academician A. N. Frumkin on 12 August 1965. Orig. 4art. has: 4 figures, 1 table, and 3 equations.

SUB CODE: 07/ SUBM DATE: 23Jul65/ ORIG REF: 006/ OTH REF: 003

Card 2/2/11/P

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L O4475-67 EWT(m)/T/EWP(t)/ETI IJP(c) JD/WW/JG/JWD	
ACC NR: AP6020376 (A) SOURCE CODE: UR/0078/66/011/003/0673/0675	
AUTHOR: Wang, Wen-hsing; Bugayenko, L. T.; Belevskiy, V. N.	
ORG: Chemistry Department, Moscow State University (Khimicheskiy fakul'tet, Moskov-skiy gosudarstvennyy universitet)	
TITLE: Thermographic analysis of sodium perchlorate solutions	
SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 3, 1966, 673-675	
TOPIC TAGS: phase diagram, perchlorate, sodium compound, thermographic analysis	
ABSTRACT: The thermographic method was used to study the phase transformations in concentrated aqueous solutions of sodium perchlorate at low temperatures. The thermograms were recorded in temperature vs. time coordinates. Both polycrystalline samples (ob-	
tained by slow freezing) and vitreous samples were studied. In polycrystalline samples, the heating curves in the range of -196 to 0°C (77-273°K) showed only one endothermic transition at -38°C (235°K) (curve 1, Fig. 1). In vitreous samples, the heat-	The same of the sa
ing curves showed two main transitions: an exothermic one (with a sharp temperature rise) at -78°C (195°K) and an endothermic one (with a distinct plateau) at 38°C (235°K) (curve 2, Fig. 1). The first transition corresponds to the devitrification of the so-	
lution, and the second is thought to be associated with the fusion of a cutectic mixture of the hypothetical composition NaClO ₁ ·hH ₂ O. A phase diagram of the aqueous sodium namely material advantages to the second of the second second of the second second of the second second second of the second se	
dium perchlorate solutions is shown in Fig. 2. Orig. art. has: 2 figures.	
Card 1/2 UDC: 516.33*137	

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S/181/61/003/009/009/039 B102/B104

9,3120 (1138)

Bazhanova, N. P., Belevskiy, V. P., and Fridrikhov, S. A.

TITLE:

AUTHORS:

- - · · · ·

Secondary electron emission of barium- and yttrium oxide at

low energies of primary electrons (1 - 100 ev)

PERIODICAL: Fizika tverdogo tela, v. 3, no. 9, 1961, 2610 - 2619

TEXT; The mechanism of secondary electron emission has hitherto been insufficiently studied, particularly in the range of low primary energies E_p . The authors studied the secondary electron emission (s.e.e.) of thick BaO- and Y_2O_3 layers due to 1 - 100-ev electron bombardment at temperatures of up to 500° C. The purpose of the present study was to obtain data on the s.e.e. threshold and on the type of E_p -dependence of the s.e.e. coefficient σ , of the elastic reflection factor R, and of the coefficient δ of the emission of slow electrons, as well as data on the primary emission due to primary electron reflection from the emitter. The s.e.e. threshold is designated as being that primary electron energy E_p^* , at which

Card 1/5

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Secondary electron emission...

imum dly.

the secondary electron energy distribution begins to display a maximum due to true secondary emission, and at which δ begins to rise rapidly. Measurements were made in pulsed operation at t 300°C (BaO) and t 500°C (Y_2O_3) with single pulses, and at t > 300°C (BaO) and t > 500°C (Y_2O_3) with periodic pulses. BaO and Y_2O_3 were deposited on a nickel and a tungsten backing, respectively, both ranging between 50 and 100 µ. Highpurity conditions were maintained throughout the work. Once the targets were completed, they were subjected to heat treatment for several hours. The measuring chamber was evacuated for 3 - 4 days with diffusion pumps until the residual gas pressure dropped to 3 - $5 \cdot 10^{-9}$ mm Hg. The σ (E_p) curves of BaO layers displayed a low maximum at $E_p = 3$ ev, a minimum at 5 ev, and, subsequently, a steep but not monotonic rise to 50 ev. The work function was found to be (1.6 \pm 0.1) ev. δ (E_p) and R(E_p) were determined from the delay curves of the secondary current. As may be seen, the slowelectron spectrum begins at $E_p = 5 - 6$ ev. σ , R, and δ as functions of $\mathbf{E}_{\mathbf{p}}$ (Fig. 4) practically displayed no temperature dependence between 20 and Card 2/5

28077

S/181/61/003/009/009/039 B102/B104

Secondary electron emission...

350°C. Similar results were obtained for Y203 layers. Regarding these, σ (E $_{p}$) was recorded for E $_{p}$ being between 1 and 90 ev. The maximum was found at N4 ev, and the minimum at N7.5 ev, whereupon a nonuniform rise took place again. The work function was (3 ± 0.1) ev. σ did not change between 20 and 1000° C. Here, E_{p}^{+} is 6.5 ev. For Y_{2}° O₃, Fig. 8 shows σ , R, and δ as functions of $\mathbf{E}_{\mathbf{p}}$. In a detailed discussion, results are compared with those obtained for other dielectrics, and, above all, a qualitative agreement is found. A study of the energy spectra of elastically and inelastically reflected electrons yielded relatively high values (R 20.5) for the reflection factors, compared with those relative to metals. They cannot be explained by the sole assumption of a quantum-mechanical reflection of primary electrons from the potential barrier of the vacuum-dielectric interface. It is necessary also to assume electron scattering within the lattice (e.g., also by phonons). The singularities shown by the curves (e.g., σ (E_p) for BaO at E_p 10, 15, 20, and 35 ev, for Y₂0₃ at \simeq 15, 25, and 35 ev; the singularities of curves R(E $_{\rm p}$) and δ (E $_{\rm p}$) may Card 3/5

28077

Secondary electron emission...

S/181/61/003/009/009/039 B102/B104

be seen in the figures) are associated with the energetic structure of the substances. Professor A. R. Shul'man, whose laboratory was used for the investigation, is thanked for advice and discussions. D. A. Gorodetskiy is mentioned. There are 8 figures, 1 table, and 28 references: 10 Soviet and 18 non-Soviet. The three most recent references to English-language publications read as follows: E. Taft et al. Phys. Rev. 113, 156, 1959; A. Lempicki. Proc. Phys. Soc. B66, 278, 1953; D. Wright, J. Woods. Proc. Phys. Soc. <u>66</u>, 1073, 1953.

ASSOCIATION: Leningradskiy politekhnicheskiy institut imeni M. I. Kalinina

(Leningrad Polytechnic Institute imeni M. I. Kalinin)

SUBMITTED:

March 27, 1961

Card 4/5

LURIYE, Xu.Yu., prof.; ANTIPOVA, P.S.; BELEVISEV, A.N.

Purification of waste waters from fluorides. TSvet, met. 34 no.2:
43-47 F (61.

(Industrial wastes) (Water—Purification)

(Industrial wastes)

MILOVANOV, L.V.; BELEVTSEV, A.N.; SHCHUKINA, G.A.

Purification of plating plants' waste water containing cyanide.

Ochis. stoch. vod. no.3:4-16 '62. (MIRA 16:5)

(Cyanides) (Industrial wastes—Purification)

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I 3015-66 EWT(d)/EWT(m)/EWP(1)/EWP(c)/EWP(v)/T/EWP(t)/EWP(b)/ EWP(1)/ETC(m) 3D/WW BOOK EXPLOITATION AM4044427 621.396.6.002 Blak Belevisev, Artem Tikhonovich Radio equipment manufacturing technology (Tekhnologiya proisvodstva radioapparatury) Moscow, Isd-vo "Energiya", 1.44. 639 p. illus., biblio. Textbook for power and radio engineering faculties and institutes of higher learning. 12,000 copies printed. TOPIC TAGS: radio equipment, electronic equipment, magnetic circuit, electronic industry, ceramic product electronic component, synthetic material, printed circuit, protective coating, hermetic seal, metal coating PURPOSE AND COVERAGE: The book examines the basic engineering problems of manufacturing radio equipment. Under special consideration are the engineering problems of designing, the economic aspects, the organisation of assembly processes, the analysis of technical processes and the problems of increasing the quality and reliability of radio equipment. A considerable part of the book deals with the manufacturing technology of the most characteristic and Card 1/3

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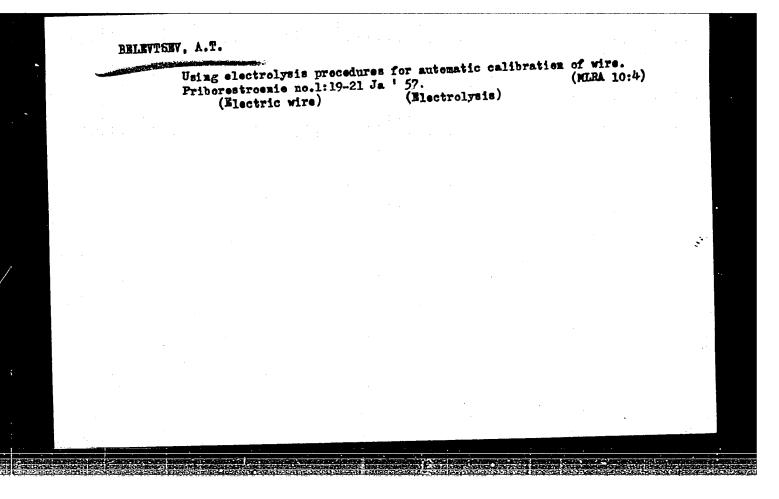
common parts and units, magnetic circuits, windings and other articles made from plastics and ceramics. The methods for obtaining permanent connections and printed circuits are considered. The material in this book is based on the achievements of Soviet and foreign technology in the field of radio equipment manufacturing. The book is intended for power and radio engineering higher technical schools. It may be of use to engineers-specialists, designers and technologists in radio engineering industry.

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PHASE I BOOK EXPLOITATION

1250

Belevtsev, Artem Tikhonovich

Tekhnologiya proizvodstva potentsiometrov (Technology of Producing Potentiometers) Moscow, Oborongiz, 1958. 215 p. 4,000 copies printed.

Reviewer: Kiselev, V.M., Candidate of Technical Sciences; Ed.:
Polyakov, G.F., Engineer; Ed. of Publishing House: Kuznetsova,
A.G.; Tech. Ed.: Rozhin, V.P.; Managing Ed.: Sokolov, A.I.,
Engineer.

PURPOSE: The book is intended for production engineers and designers and for personnel of scientific-research institutes concerned with the design and techniques of producing electric components. It may also be useful to students of instrument-making vuzes and tekhnikums.

Card 1/7

Technology of Producing Potentiometers

1250

COVERAGE: The author describes the manufacture of wire potentiometers and their component parts. He discusses problems of assembly, inspection and use and analyzes primary errors of wire potentiometers. He also gives kinematic diagrams and descriptions of modern winding machines. According to the author, the Soviet and foreign literature on potentiometers during the last 8 to 10 years has dealt mainly with problems of design and application. Very little has been said about production techniques. In the present work the author attempts to give a systematic descriptions of the production methods employed by Soviet industry in the manufacture of wire potentiometers for use in aircraft instruments and automatic devices. He includes data obtained from recent scientific-research and design work conducted by a number of research organizations. Future trends in improving the production of heavy-current potentiometers are briefly discussed. The author thanks Engineer I.A. Buyanov, who helped to write Chapter V, and Engineer V.Kh. Kurnyavko, who wrote Section 7 of Chapter VIII and helped to write

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Section 5 of Chapter VI. There are 35 references, are Soviet, 14 English, 1 French, and 1 German.	, of which 19	
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Improving the manufacture of high-precision potentiometers.
Priborostroenie no.6:17-19 Je '61. (MIRA 14:6)
(Potentiometer)

EELEVTSEV, Artem Tikhonovich; LANERDIN, V.I., inzh., retsenzent;

ODEROV, I.A., inzh., red.; ANTONOVA, S.D., red. izd-va;

ROZHIN, V.P., tekhn. red.

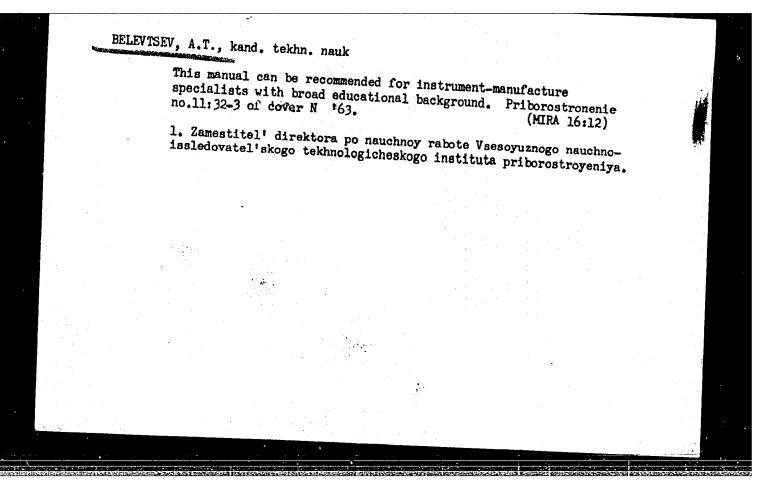
[Potentiometers] Potentsiometry. Moskva, Oborongiz, 1962. 354 p.

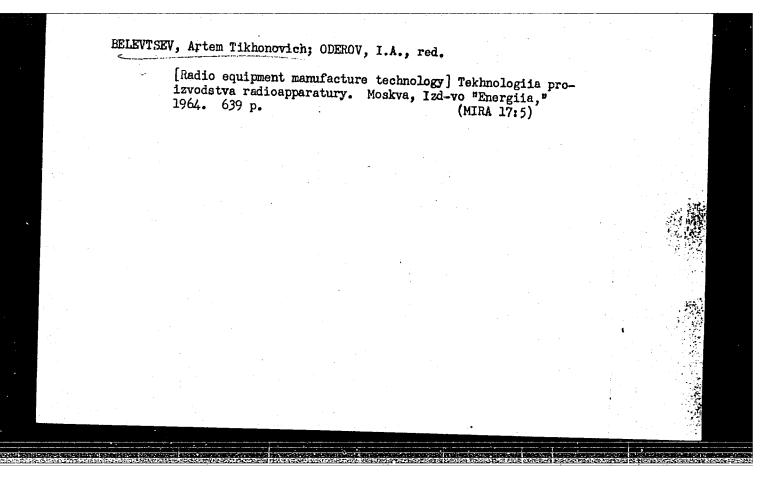
(MIRA 15:6)

(Potentiometer)

BELEVISEV, A.T., kand. tekhn. nauk; GOLIKOV, V.I., kand. tekhn. nauk; GOTSERIDZE, R.M., inzh.; YEFIMOV, V.P., kand. tekhn. nauk [deceased]; KOPANEVICH, Ye.G., kand. tekhn. nauk; MALOV, A.N., prof.; PARFENOV, O.D., kand. tekhn. nauk; ROZENBERG, A.G., tekhn.; SEMIBRATOV, M.N., kand. tekhn. nauk; SKURATOV, A.Ye., kand. tekhn. nauk; SOKOLOVSKIY, I.A., kand. tekhn.nauk; SYROVATCHENKO, P.V., kand. tekhn.nauk; TISHCHENKO, O.F., doktor tekhn. nauk; USHAKOV, N.N., kand. tekhn. nauk; CHUMAKOV, V.P., kand. tekhn. nauk; SHISHKIN, v.A., kand. tekhn.nauk; SHISHKIN, V.A., kand. tekhn.nauk; SHISHNIY, I.I., inzh.; BLAGOSKLONOVA, N.Yu., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manual for engineers in the instrument industry]Spravochnik tekhnologa-priborostroitelia. Pod red. A.N.Malova. Moskva, Mashgiz, 1962. 988 p. (MIRA 16:2) (Instrument manufacture)





EELEVTSEV, Artem Tikhonovich; SHARLOVSKIY, Yu.V., red.

[Microminiaturization of radioelectronic apparatus]
Mikrominiaturizatsiia radioelektronnoi apparatury.

Moskva, Energiia, 1965. 256 p. (MIRA 18:3)

ACC NR: AP6029786	SOURCE CODE: UR/0119	/66/000/008/00 05/ 0	007
AUTHOR: Belevisev, A.	. (Candidate of technical scie	nces); Voronkov, G	Ya.
Candidate of technical sci	ences); Lidorenko, N. S. (Con		
AN SSSR); Fedorin, V. A.	(Engineer)		
ORG: none			
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TITLE: Electrochemically	-controlled resistor	2	
SOURCE: Priborostroyeni	ye, no. 8, 1966, 5-7	ATE .	
TOPIC TAGS: resistor. e	ectrochemically controlled	(= = ···)	
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	re) filled with an electrolyte a	nd	
	ode 2 and control metal electr		
	pplied between one end of 2 an	d 3.	
Readout a-c signal appear	s between A and B. An		
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ACC NR: AP6029786

experimental model had an initial resistance of 150 ohms which could be brought down to 10 ohms in 7 sec. Plots of resistance vs. time and control current and hysteresis vs. control current are shown. The capacitance of the cell was 40 millicoulombs with a current of 2 ma and a resistance of 5—150 ohms. So far, the new device has hardly been practical: it cannot operate as a potentiometer; its hysteresis is too large; the resistance-hysteresis relation is nonlinear; only ac is suitable for readout; resistance variation rate is insufficient; the device survives only about 2000 cycles of operation. Orig. art. has: 7 figures and 1 formula.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 003

Card 2/2

ACC NR: AP7005615 SOURCE CODE: UR/0413/67/000/002/0052/0053

INVENTOR: Belevtsev, A. T.; Dudkin, L. D.; Yerofeyev, R. S.; Lidorenko, N. S.;
Khanin, M. A.

ORG: none

TITLE: A method for manufacturing thermoelements. Class 21, No. 190448 [announced by the All-Union Scientific Research Institute of Current Sources (Vsesoyuznyy nauchno-issledovatel skiy institut istochnikovtoka)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 52-53

TOPIC TAGS: thermocouple, temperature sensitive element, CURRENT CARRIER

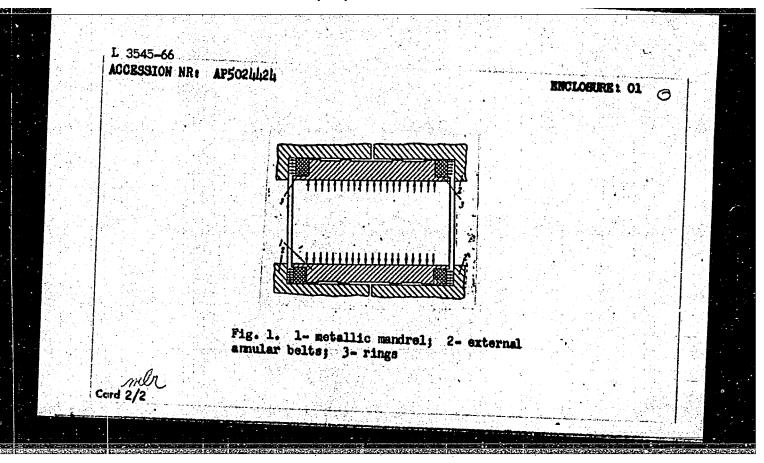
ABSTRACT: A method of making thermocouples with a variable concentration of electric current carriers along the operating temperature gradient is introduced. To assure both optimum variable concentration of the carriers and thermodynamic stability of the elements, the amount of alloying impurities in the carrier concentration is determined by the specific solubility of the alloying impurities, thus assuring the desired relationship between the carrier concentration and temperature—i.e., $n = T^3/4$.

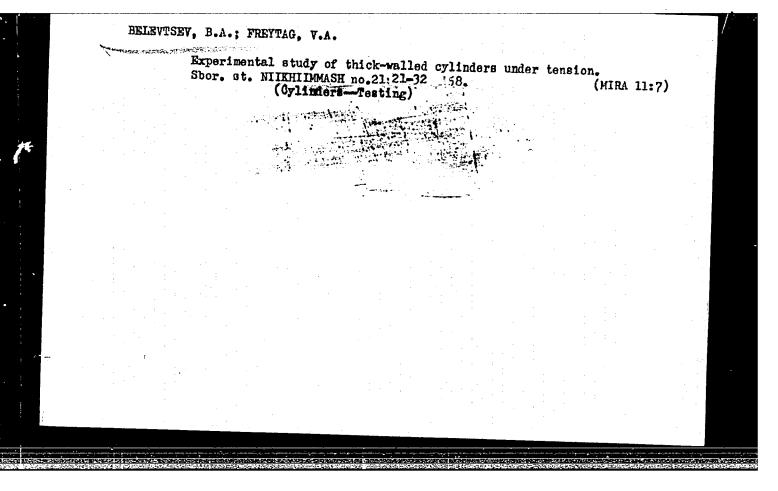
SUB CODE: 09/ SUBM DATE: 29Jul65

Card 1/1

UDC: 521,362.1

L 3545-66 EWT(m)/EPF(c)/T ACCESSION NR: AP5024424 UR/0286/65/000/015/0128/0128 AUTHORS: Belevtsev, B. A Freytag, V. A. TITLE: A self-sealing device. Class 47, No. 173552 SOURCE: Byulleten' isobreteniy i tovarnykh znakov, no. 15, 1965, 128 TOPIC TAGS: hermetic seal, sealing device ABSTRACT: This Author Certificate presents a self-sealing device containing rings of elastic material, mounted on an elastic metallic mandrel (see Fig. 1 on the Enclosure). To improve the seallet high pressures and to make the rings operate in conjunction with a lenticular and a packing gasket, the elastic metallic mendrel of the device is made in the form of a collar with external annular belts. The elastic rings are mounted on the terminal recesses of the mandrel. Orig. art. has: 1 figure. ASSOCIATION: none SUBMITTED: 13Jan62 ENCL: 01 SUB CODE: IE NO REF SOV: 000 OTHER: 000





Perfecting the mithod of measuring the deformation of bodies of high-pressure apparatuses by means of wire resistance strain gauges. Sbor. st. NIIKHIIMMASH no.21:54-64 *58. (MIRA 11:7) (Deformations (Mechanics)) (Metals-Testing)

ACC NR: AP6028577 (N) SOURCE CODE: UR/0314/66/000/008/0011/0013	
AUTHOR: Belevtsev, B. A. (Engineer); Freytag, V. A. (Candidate of technical sciences)	
ORG: None TITLE: Stationary seals at high pressures SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 8, 1966, 11-13	
TOPIC TAGS: sealing device, hermetic seal, high pressure	
ABSTRACT: The authors describe the basic operating principles of two types of seals used at the Leningrad Scientific Research Institute of Chemical Machinery in hydraulic tests and recommend various modifications for improving seal design. The two types of seals are shown in figures 1 and 2. The viscoelastic type may be used for testing thick-walled cylinders at an internal pressure of up to 6000 atm. The viscoelastic sealing elements are made from various	
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ACC NR: AP6028577

materials depending on the operating conditions. The operation of the seal is explained by treating the viscoelastic material as a viscous liquid. The material is forced into the clearance extremely slowly due to its high isocaity. On the other hand, if the gap is so small that the friction of the flowing viscoelastic material against the wall of the gap balances the pressure of the medium, the material will not be forced into the gap at all. This type of seal works equally well under liquid and gas pressures. Elastoplastic seals (see figure 2) are a combination of a corrugated liner and a viscoelastic seal. The annular man-

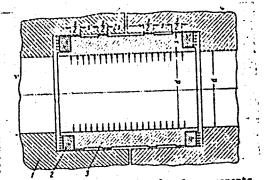


Figure 2. Elastoplastic seal: 1--components being sealed; 2--rings made of viscoelastic material; J--annular mandrel.

drel in this type of seal is made from soft steel. As the internal pressure increases this mandrel is subjected to radial deformation. Expansion of the mandrel under the effect of internal pressure continues until the projections on the outer surface of the mandrel touch the inner surface of the components being sealed. When the internal pressure is reduced or released, radial deformation of the ring keeps the seal airtight. Suggestions are made for improving the reliability and durability of both types of seals. Orig. art. has: 5 figures.

SUB CODE; 13/ SUBM DATE; None

Card 2/2

Space arrangement for sunflower in the zone of insufficient moisture Zemledelie 24 no.3:60-70 Mr '62. (MIRA 15:3) 1. Donskaya opytnaya stantsiya. (Rostov Province--Sunflowers) (Plants, Space arrangement of)

ALEKSFYEV, A.P., kand. biol. nauk; LUKASHEV, A.I., kand. sel'khoz. nauk; BELEVTSEV, D.N., kand. sel'khoz. nauk;
KALININ, N.I., st. nauchn. sotr.; ZHDANOV, L.A., akademik,
red.; ALEKSEYEVA, R.I., red.

[Sunflowers in the Don Valley] Podsolnechnik na Domu. [By]
A.P.Alekseev i dr. Rostov na Donu, Rostovskoe knizhnoe izdvo, 1964. 110 p. (MIRA 17:6)

HELEVTSEY, G.A.; GAVRILENKO, N.G.; GRINENKO, I.M.; KOROSTIK, P.O.;

KOTELVNIKOV, I.V.; KRASAVTSEV, N.I., kand. tekhn. nauk;

MISHCHENKO, N.M.; POPOV, N.N., kand. tekhn. nauk; SEMIK, I.P.,

kand. tekhn. nauk; TOTSKIY, G.P., kand. tekhn. nauk; SHESTOPALOV,

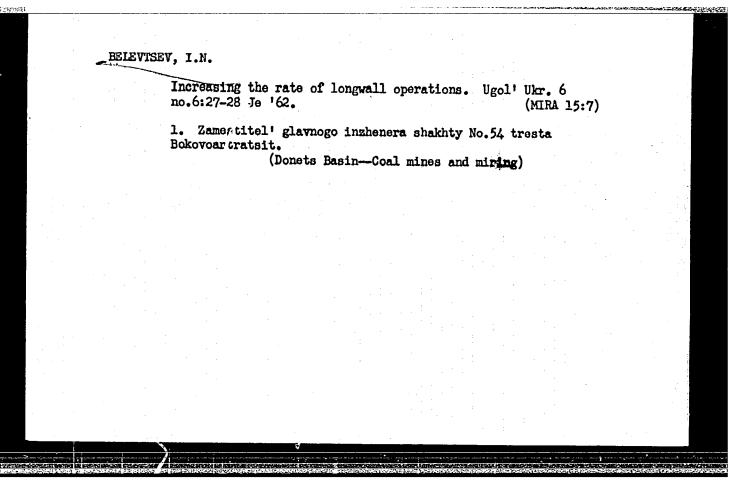
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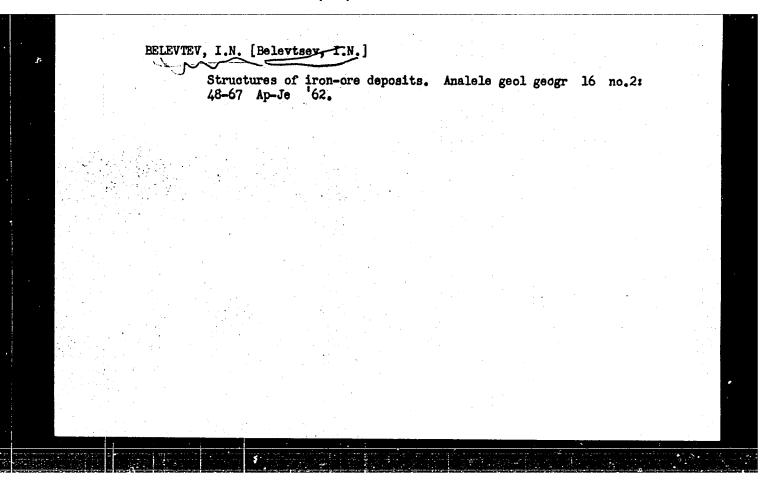
SOLOMATIN, A.M.; BOLOTSKIY, D.V.; ZAPOROZHETS, N.P.;

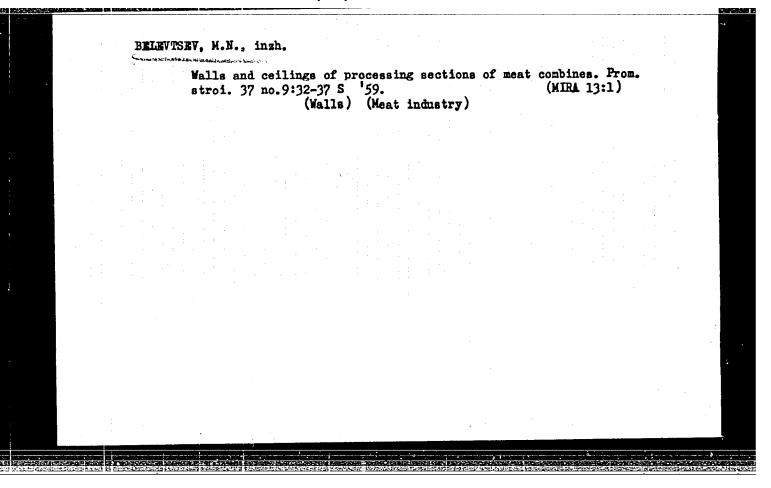
HESSCHASTNYY, A.Ve.; SHVETS, N.Kh.; LIKHUNIN, S.D.; SHUMSKIY, L.B.;

VAS'KOVICH, N.A.; YEROKHINA, A.I.; GELYUKH, B.A.

Desulfuration of pig iron in a fast-revolving and continuous drum. Met. i gernorud. prom. no.4:3-5 Jl-Ag '65. (MIRA 18:10)







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AUTHOR TITLE

BELEVTSEV N.Ya., TEPLITSKAYA N.V.

20-2-47/67

A Case of Secondary Concentration of Ferriferous Quartzites of the

Olenegorsk Deposit.

(Sluchay wtorichnogo obogashcheniya zhelezistykh kvartistov ny

Olenegroskom mestorozhdenii .-Russian)

PERIDOCAL

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 2, pp 411-413(U.S.S.R.) Received 6/1957 Reviewed 7/1957

ABSTRACT

Ferroferous quartzites which lie among old archaic gneissare widespread over the U.S.S.A. (Ukraine, Ural, Aldan and Kola-peninsula). By several peculiarities they differ from the ferriferous hornblendes and gespilites from Krivoy Rog and the KMA (=Kursk magnetical Anomaly). Iron-quartzites are used as raw meterial for the production of blast furnce aglomeration. So far important deposits of rich ironores have never been found among them. The iron containing quartzite from Olenogorsk (Kola-peninsula) is a streaky rock, consisting of ore-containing and ore-free alternating intermediate layers. They are not workable, but are interesting from a scientific point of view, as they demonstrate the secondary concentration process and canthus refer to the possible occurrence of rich workable oresithe ore-layers (0.5.-12 mm thick) here mainly consist of magnetite with considerable quantites of quartz and smaller quantites of haematite, amphibolite and pyroxene. The two former form intercrescences and idiomorphic crystals. Spaces are filled by non-ore minerals. The ore-free layers (0.3-15 mm) consist of quartz, at times with

Card 1/3

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A Case of Secondary Concentration of Ferriferous Quartzites of the Olenegorsk Deposit.

20-2-47/67

subordinate quantities of amphibolite, pyroxene and biotite. Iron content of the quartzites fluctuates between 23 and 27 up to 36%, on the average = 33%. The "vein" of the rich iron-ore (ill.1) lies between amphibolite-magnetite-quartzites with an inclination of 25-360 towards the streakiness of the latter and has a steep incline (60-650) towards the south. When unearthing them they can be followed for 7-8 m. Their complicated folding which usually ceases in contact with quartzite is characteristic. Ore consists of: magnetite 59%, haematite 12%, amphibolite 18% and quartz 8%. Amphibolite can be classed within the actimolite series. Pyroxene is intermediate between aegirine and augite. In contact with ore, quartzite is concentrated by amphibolite and pyroxene, which here replaces quartz and which mostly deposit in the intermediate layers of quartz as margins along the borders of the intermediate layers of ore. Iron-quartzites here contain: 3.5% haematite, 5.1% amphibolite and 5% pyroxene. A great similarity of the minerological and incidentally also of the chemical composition as well as of the constitution of the ore quartzites and iron-ores can be noticed, except for different quantities of iron and silicic acid. Thus the secondary concentration of the iron quartzites consists in the increase of content of ore minerals: Pyroxene and amphibolite, which replace quartz in ore containing and ore-free intermediate layers. Such a mineral-paragenesis could develop in the ore on the occasion of a certain surplus of Fe, Mg, Ca, Na, and Al. The Fe-increase in the

Card 2/3

A Case of Secondary Concentration of Ferriferous Quartzites of the Olenegorsk Deposit.

20-2-47/67

ore can also be explained by its motion within the quartzite layers. With regard to time the secondary concentration can be placed into the period of the general metamorphism of the sediments and of the formation of the respective rocks. Similar modifications of rock composition are also known at several places of the Ukraine. In Olenegorsk the "veins" can represent a symptom for the presence of workable deposits of rich iron-ores (With 1 schedule, 2 illustrations, 2 citations from Slavic publications).

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Card 3/3

Institute for Geological Sciences of the Academy of Science KORZHINSKIY D.S., Member of the Academy 16.3.1956
Library of Congress

Division of intrusive rocks as revealed by the studies in the

Division of intrusive rocks as revealed by the studies in the Uda-Khilok interfluve of western Transbaikalia. Geol.zhur. 22 no.5:75-80 162. (MIRA 15:12)

1. Kiyevskiy gosudarstvennyy universitet.
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BELEVTSEV, Tikhon Nikolayevich, Geroy Sotsialisticheskogo Truda, kand. tekhn. nauk; KOGAN, F.Ya., otv. red.; GRINER, N.S., red. izd-va; SHKIYAR, S.Ya., tekhn. red.; BOLDYREVA, Z.A., tekhn. red.

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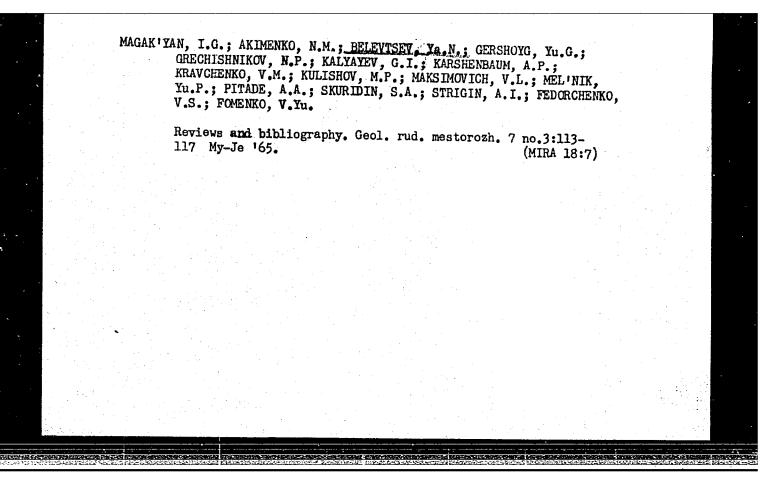
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(Reinforced concrete construction-Tables, calculations, etc.)

(Building machinery) (HIRA \$4.27)	(Building machinery)		Traveling detachment for mechanizing small disperse operations. Stroi.i dor.mash. 6 no.7:13-17 Jl	ed bui	lding	 -\	
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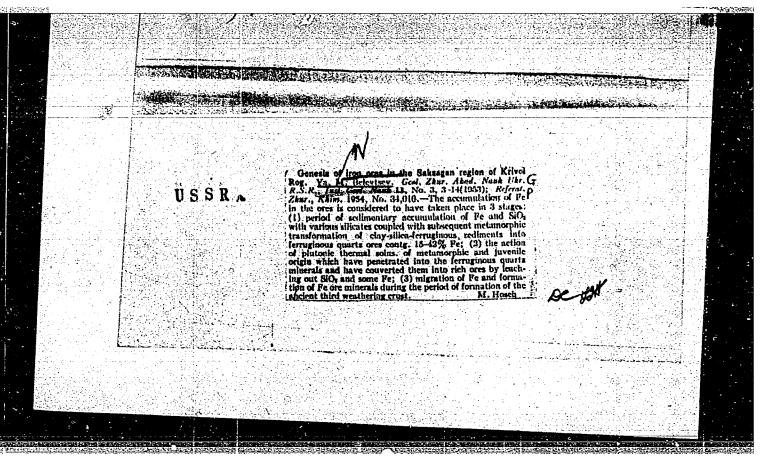


Westr/Geophysics - Faults "Problem of Phases Governing Formation of Structures of the Krivoy Rog Metamorphic Zone," Ya. N. Belevtsey "Iz Ak Mauk SSSR, Ser Geol" No 6, pp 20-35 Analyzes conditions governing formation of linear folding and faulting in the case of laminar flow of materials and the various metamorphisms of rocks in submeridional and sublatitudinal faulting zones. Discusses two types of granite intrusions. Concludes that two tectonic phases of Krivoy Rog structural formation existed. Determines and			THO DONH	PA 241T44	
Move blem of Phases Governing Formation of St. s of the Krivoy Rog Metamorphic Zone," Ye visey Ak Mauk SSSR, Ser Geol" No 6, pp 20-35 Yzes conditions governing formation of lifting and faulting in the case of laminar in a submeridional and sublatitudinal faus. Discusses two types of granite intrusuals that two tectonic phases of Krivoy stural formation existed. Determines and rives the continuous course of a folding on, detecting its retardation and accelern			one one		
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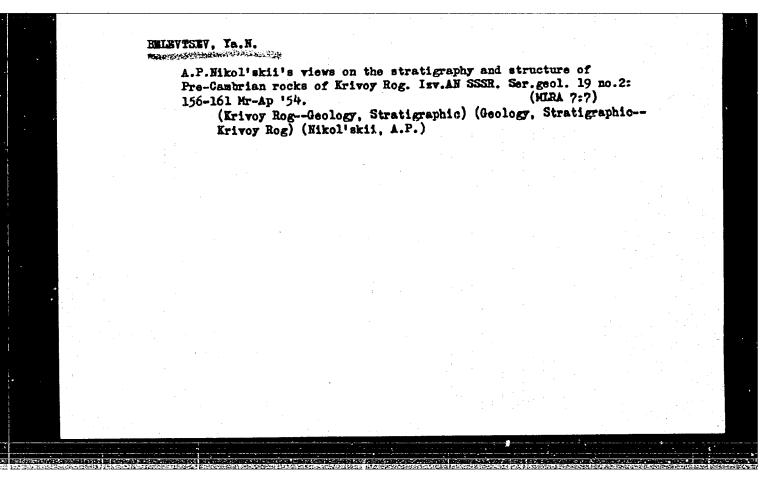
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Polskovye kriterii zheleznykh rud magnitnykh anomalii. Kiev, Isdvo Akademii nauk Ukrainskoi SSR, 1954. 42 p. (Akademiia nauk UKSR, Kiev. Instytut geologichnykh nauk. Trudy Seriia petrografii, mineralogii i geokhimii, no.4)

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BELFYTSEV, YA. Y. USSR/Geology Card 1/1 Belevtsev, Ya. N., and Dubinkina, R. P. Authors Massive martite-hematite ores from the Saksagansk region of Title Krivoy Rog Ukr-SSR Dokl. AN SSSR, 96, Ed. 2, 355 - 357, May 1954 Periodical Massive martite-hematite ores form separate strata among "Dzhespilites" (?), but most often they are found in close Abstract connection with porous martite ores. The samples described in this report were extracted from hematite-martite ores deposited in "Dzhespilites" (?) of the fifth ferriferrous horizon. Formation of massive rich iron ores from the "Dzhespilites" (?) is connected with the deep metasomatic processes accompanied by the addition of iron and proportional loss of silica. Six USSR references. Tables, photo. Academy of Sciences Ukr-SSR, Institute of Geological Sciences. Institution Academician D. S. Korzhinskiy, March 13, 1954 Presented by

BELEVISEV, Ya. N.

USSR/Geology - Iron ore formations

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Authors

: Belevtsev, Ya. N.

Title

: Comparison of iron ore formations in pre-Cambrian USSR

Periodical:

Dokl. AN SSSR, 97, Ed. 3, 499 - 502, July 21, 1954

Abstract

The characteristics and regions of pre-Cambrian iron ore formations in the USSR are described. It is recommended that these data be considered in any iron ore exploration work and in general evaluation of regions where iron ore formations of the pre-Cambrian era can be found. Table.

Institute

: Acad. of Sc. Ukr-SSR, Institute of Geological Sciences

Presented by: Academician, D. S. Korzhinskiy, April 28, 1954

ERIEVTSEV, Ya.N.; AKIMENKO, N.M.; ZHILKINSKIY, S.I.

Scientific activity of N.P.Semenenko. Min.abor.no.9:335-338 '55.
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BELEVISEV, Ya. N USSR/ Minerals - Ore deposits Card 1/1 Pub. 46 - 2/21 Authors Belovtsev, Ya. N. MANAGEM CHEST STATES t Connection between the iron-ore deposits and the transverse folds of the Title earth in the Saksagan district of the Krivoi Rog region. Periodical : Izv. AN SSSR. Ser. geol. 20/2, 20 - 34, Mar-Apr 1955 Abstract . The study of the ore deposits of the Krivoi Rog region over a period of many years makes it possible to explain the distribution of the ore deposits in the form of veins which correspond to the transverse tectonic deformation of the rocks. These ore veins alternate with less deformed layers containing no ore. Three Soviet references (1946-1952). Illustrations; diagrams; table. Institution: Submitted : June 19, 1954

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Authors : Belevtsev, Ya. N.; Siroshtan, R. I.; and Skuridin, S. A.

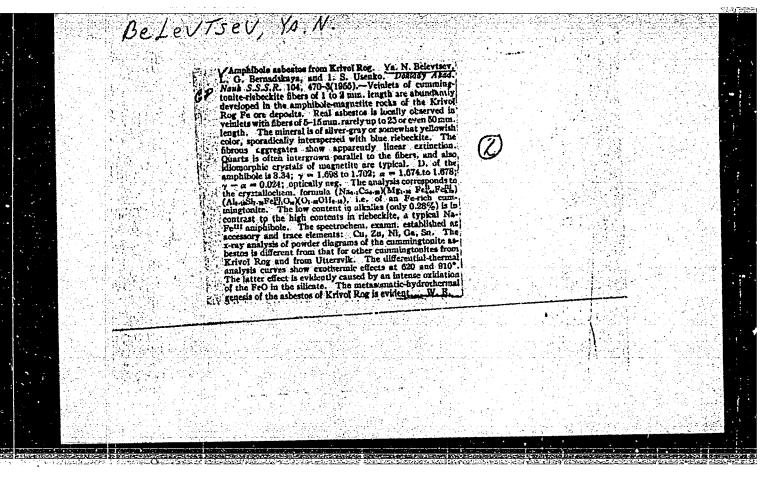
Titls : The granites in the upper sections of the Krivoyrog formations

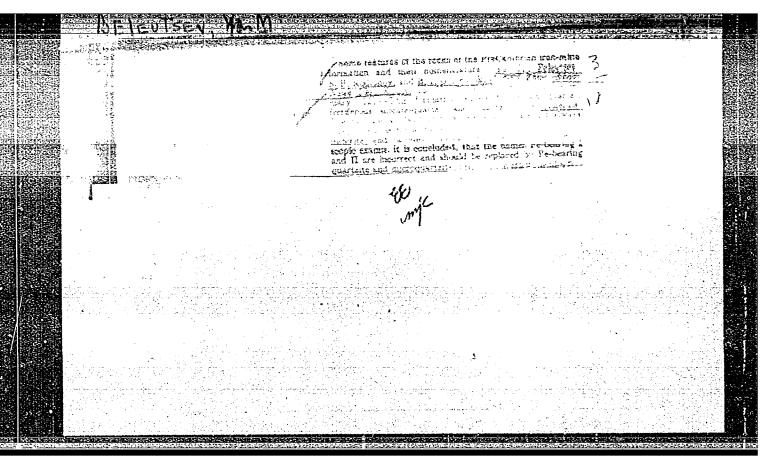
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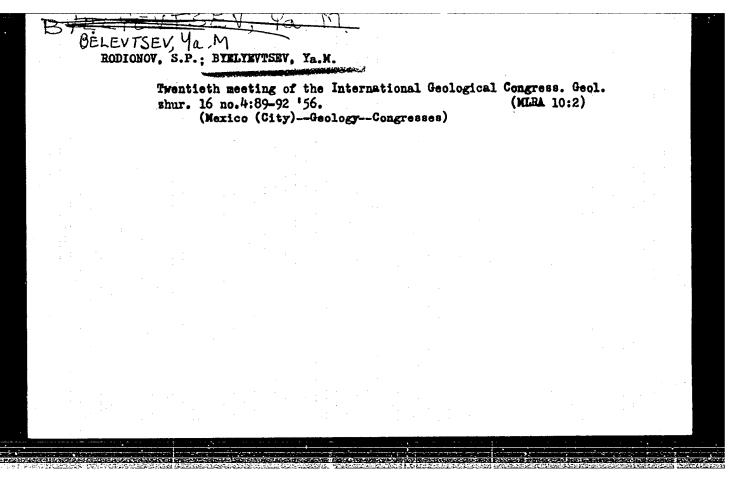
Abstract : The discovery in 1953 of granite pebbles among the conglomerates of the Krivoyrog formations is reported. Geological data of these granite inclusions are included. Tables.

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Presented by: Academician A. G. Betekgtin, November 14, 1954







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K.P.: MAKSIMOVICH, V.L.; SKURIDIN, S.A.; SIROSHTAN, R.I.; TOKHTUIEV,

K.P.; MAKSIMOVICH, V.L.; SKURIDIN, S.A.; SIROSHTAN, R.I.; TOKHTUTEV, G.V.; FOMENKO, V.Yu.; SHCHERBAKOVA, K.F.; SEMENOV, M.V., red.izd-va; AVERKIYNVA, T.A., tekhn.red.

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Geologicheskoe stroenie i shelesnye rudy Krivoroshakogo basseina.
Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geologii i okhrane
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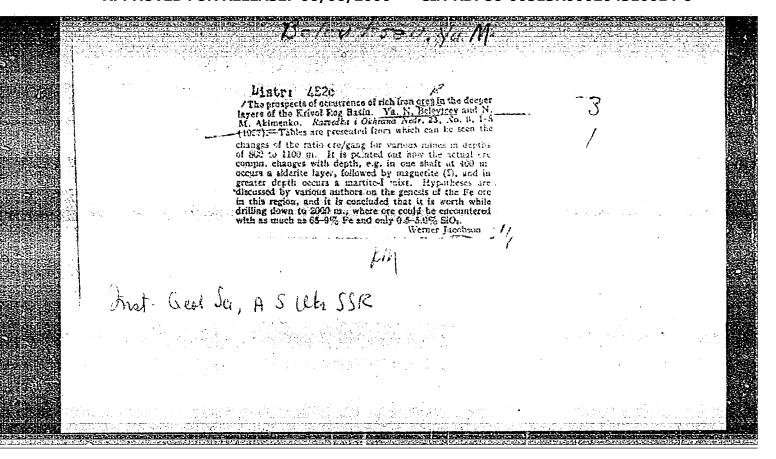
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