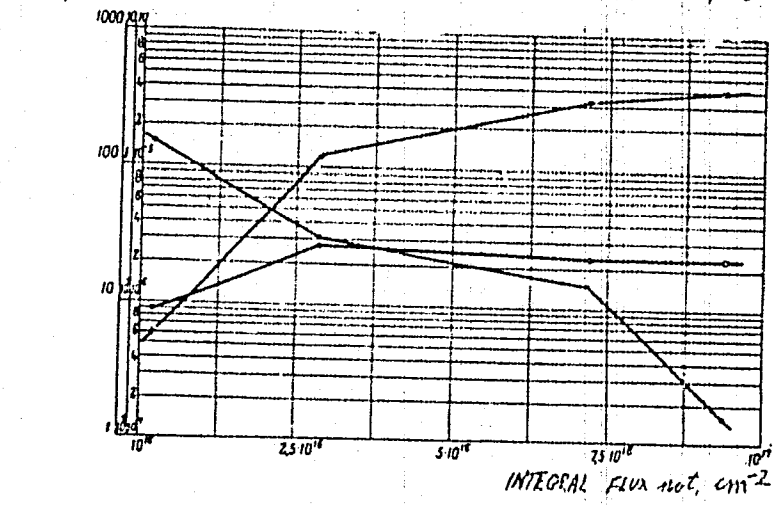


Fig. 4. I_{cs} (x), V_∞ (o) and R (•) of an U_3O_8-MgO sample vs integral neutron flux nvt at a constant neutron flux density of $8\cdot10^{12}$ $cm^{-2}\cdot sec^{-1}$.

Card 8/10

10% enriched sample gave a 15 times larger effect than the natural one. Authors used also oxides and sulfides of Be, Ni, Mo, W, Zn, and Co. In all cases they observed an emf, although the biggest effect occurred with the U_3O_8-MgO combination. Computation showed that in this last case 0.01% of the fragments' energy was transformed into electrical energy. Such small efficiency can be explained through the apparently short lifetime of the current carriers, and a poor relation between their diffusion path length compared with the sample thickness. The authors conclude that the emf is basically a result of a valve effect, although the volume and thermal emf may play some role too.
Professor A. K. Krasin showed interest, G. N. Ushakov collaborated during experiments, and R. G. Bulycheva, V. A. Shalin, and G. V. Rykov were partially involved in experimental work. There are 4 figures; and 6 references, 4 Soviet, 1 U.K., 1 U.S. The U.K. and

A Study of Electromotive Forces Generated in Semiconductor Systems Containing Uranium, When Irradiated in Reactors. Letter to the Editor

77227
SOV/89-8-1-21/29

U.S. references are: G. Kinchin, R. Pease, Repts Progr. Phys., 18, 1 (1955); J. Glen, Advances Phys., 4, Nr 16, 381 (1955).

SUBMITTED: August 3, 1959

Card 10/10

GOLUBEV, V.I.; ZVONAREV, A.V.; NIKOLAYEV, M.N.; ORLOV, M.Yu.

Effect of reflectors made from different materials on an increase in neutron capture by the uranium shielding of a fast reactor. Atom. energ. 15 no.3:258-259 S '63. (MIRA 16:10)

(Neutrons—Capture) (Nucelar reactors)

ACC NR: AP6021530 SOURCE CODE: UR/0089/66/020/006/0518/0520

AUTHOR: Zvonarev, A. V.; Koleganov, Yu. F.; Mikhaylus, F. F.; Nikolayev, M. N.

ORG: none

TITLE: Measurement of neutron spectra in the energy region up to 3 kev by resonant indicators

SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 518-520

TOPIC TAGS: neutron spectroscopy, reactor neutron flux, fast neutron, neutron capture/BR-1 reactor

ABSTRACT: The authors propose a modification of the method of V. I. Golubev et al. (Atomnaya energiya v. 11, 1961) for measuring neutron spectra at different points inside a nuclear reactor through the use of resonant self-screening of indicators by filters of the same material. The authors' modification, aimed at extending the possible energy range, consists of using the first resonances of neutron capture in W^{186}, Mn^{55}, and Na^{23}. The filter resonant self-screening factors needed to make use of the method are calculated for different thicknesses of the indicators themselves and of the filters surrounding them. Plots of these factors, obtained by a Monte Carlo computer calculation, are presented. The method was used to measure the distribution of neutrons with energies corresponding to the first resonances of In^{155}, Au^{197}, W^{186}, Mn^{55}, and Na^{23} inside a uranium block measuring 70 x 70 x 90 cm bombarding with neutrons in the Fermi spectrum. The results confirmed the possibility of

Card 1/2 UDC: 539.125.52

ACC NR APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"
AP6021530

using the proposed resonant indicators for reactor measurements. The authors thank V. I. Golubev, M. Yu. Orlov, and O. P. Uznadze for taking part in the work, and the crew of the BR-1 reactor and K. I. Nesterov for help with the measurements. Orig. art. has: 4 figures, 1 table, and 1 formula.

SUB CODE: 18/ SUBM DATE: 29Nov65/ ORIG REF: 010

Card 2/2 LC

GOLUBEV, V.I.; ZAVARITSKIY, A.V.; NIKOLAIEV, M.N.; ORLOV, M.Yu.

Effect of reflectors made from various materials on the number of neutrons captured in the uranium carbide shield of a fast reactor. Atom. energ. 15 no.4:327-328 O '63. (MIRA 16:10)

BONDARENKO, I.I. [deceased]; GOLUBEV, V.I.; ZVONAREV, A.V.; NIKOLAYEV, M.N.; ORLOV, M.Yu.; UZNADZE, O.P.

Neutron propagation in uranium carbide. Atom. energ. 17 no.2: 113-119 Ag '64 (MIRA 17:8)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ZVONAREV

MOROZOV, V.; ZVONAREV, E.; VINITSKIY, I.

Improve efficiency work. Den. i kred. 15 no.1:44-46 Ja '57. (MIRA 10:3)

(Banks and banking)

ZVONAREV, F.

Checking cash discipline at trade enterprises. Den. i kred. 15 no.7:49-50 Jl '57. (MLRA 10:8)
(Leningrad--Retail trade)
(Banks and banking)

ZVONAREV, F.

Consolidating gains made. Den. i kred. 13 no.5:31-32 My '55.
(Leningrad--Banks and banking) (MLRA 8:7)

ZVONAREV, I.; SENDERZON, E.; SHARUDO, I.; SHORIN, V.; SHUGUROV, V.; YUSUPOV, T.

In memory of Aleksei Borisovich Travin. Geol. i geofiz. no.4:116-119 '61. (MIRA 14:5)

(Travin, Aleksei Borisovich, 1908-1960)

Electrolyte. I. N. Zvonarev. U.S.S.R. 66,541, June 30, 1946. M. Hosch

ZVONAREV, I.N.

Fourth Conference of the Coordinating Committee on the Problem of "Regularities in the Distribution of Coals in the Earth's Crust." Geol. i geofiz. no.8:131-133 '62. (MIRA 15:10)
(Coal geology—Congresses)

ZVONAREV, I.N., otv. red.; CHERNOVA, L.I., red.; SHMAKOVA, Ye.G., tekhn. red.

[Papers of the First Conference of the Siberian Special Commission on the History of Coal Accumulation]Materialy pervogo soveshchaniia Sibirskoy tematicheskoy komissii po istorii uglenakopleniia. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR. No.1. 1961. 115 p. (MIRA 15:10)

1. Soveshchaniye Sibirskoy tematicheskoy komissi po istorii uglenakopleniya. 1st, Novosibirsk, 1959.
(Siberia--Coal geology)

ZVONAREV, I.N.

Third Conference of the Siberian Commission on the study of the Distribution of and Prospecting for coals in the U.S.S.R. Geol. i geofiz. no.11:125-127 '61. (MIRA 15:2)
(Coal geology)

ANATOL'IEVA, Anna Ivanovna; ZVONAREV, I.N., ovt.red.; GREYNER, R.N., red.; MAZUROVA, A.F., tekhn.red.

[Stratigraphy and problems of the Devonian paleogeography of the Minusinsk intermountainous trough] Stratigrafiia i nekotorye voprosy paleogeografii devona Minusinskogo mezhgornogo progiba. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1960. 50 p. (Akademiia nauk SSSR. Sibirskoe otdelenie. Institut geologii i geofiziki. Trudy, no.2). (MIRA 13:12)

(Minusinsk Basin--Geology, Stratigraphic)
(Minusinsk Basin--Paleography)

ZVONAREV, I.N.

Fifth Conference of the Interdepartmental Coordination Commission on the Problem "Characteristics of the Distribution of Fossil Coals in the Earth's Crust.". Geol. i geofiz. no.11:155-157 '64. (MIRA 18:4)

ZVONAREV, I.N.

Combined study of coal sediments in Western Siberia and the Krasnoyarsk Territory. Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.18:3-17 '56. (MIRA 13:11)

(Siberia--Coal geology)

KHLONOVA, Anna Fedorovna; GREINER, R.N., red.; ZVONAREV, I.N., kand.geol.-mineral.nauk, red.; MAZUROVA, A.F., tekhn.red.

[Specific composition of pollen and spore complexes in upper Cretaceous deposits of the Chulym-Yenisey Depression] Vidovoi sostav pyl'tsy i spor v otlozheniiakh verkhnego mela Chulymo-Eniseiskoi vpadiny. Novosibirsk, Izd-vo Sibirskogo otdeleniia AN SSSR, 1960. 104 p. (Akademiia nauk SSSR. Sibirskoe otdelenie. Institut geologii i geofiziki. Trudy, no.3). (MIRA 14:8)
(Chulym Valley--Palynology) (Yenisey Valley--Palynology)

ZVONAREV, I. N.

USSR/Coal Sep/Oct 1947
Geology

"High Remuneration," I. N. Zvonarev, 2 pp

"Razvedka Nedr" No 5

Discusses the Stalin Prize winners G. P. Radchenko, V. I. Skoku, I. I. Molchanov, V. V. Stanov and I. N. Zvonarev, who were responsible for most of the discovery and development of coal bases in Siberia. They belong to the West Siberian Geological Administration and the Kuznets Basin Coal Development Trust. The author discusses the success that this group of men has had in the discovery of coking coal in the Tom'-Usinskiy region.

27T10

ZC

ZVONAREV, I.N.

The problem of Siberian petroleum. Izv.vost.fil.AN SSSR no.6:35-38 '57. (MLRA 10:9)

1. Zapadno-Sibirskiy filial Akademii nauk SSSR.
(Siberia--Petroleum geology)

ZVONAREV, I.N., otv. red.

[Coal geology of Siberia and the Far East] Geologiia uglei Sibiri i Dal'nego Vostoka. Moskva, Nauka, 1965. 174 p. (MIRA 18:12)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki.

ZVONAREV, [illegible]

Surveying

Problem of the minimum of operations in base networks of surface and mine surveying. (Trudy) VNIMI 22, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Uncl.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 673 - I

BOOK Call No.: AF500203

Author: ZVONAREV, K. A.
Full Title: CARTOGRAPHY
Transliterated Title: Kartografiya

PUBLISHING DATA

Originating Agency: None
Publishing House: Publishing House of Coal Technical Literature (UGLETEKHIZDAT)
Date: 1951 No. pp.: 212 No. of copies: 5,000
Editorial Staff
Tech. Ed.: Prof. V. V. Kavrayskiy and Prof. A. P. Yushchenko

PURPOSE: A textbook for students of Mine Engineering Departments, specializing in mine surveying. Approved by the Ministry of Higher Education of the USSR for students of institutions of higher learning. The book is dedicated to the 175th anniversary of the Leningrad Institute of Mining Engineers

TEXT DATA

Coverage: The preface states that the absence of a textbook on cartography corresponding to the mine surveying programs of mine institutes and forming part of the course in higher

geodsy made it necessary to publish this book. The text includes an introduction, four chapters, a conclusion and four supplements. Chapter I covers general information on cartographic projections; Chapter II, conical and corresponding azimuthal projections; Chapter III, cylindrical, perspective and other of the most important projections; Chapter IV, construction and publishing of charts. The conclusion gives a brief history of the development of cartography and the importance of cartography to the mine surveying engineer. The supplements include: 1) a table of the radii of currature of the spheroid of F. N. Krasovskiy for every degree of latitudes from 0° to 90°, 2) tables for computation of the projection of Krasovskiy's spheroid, 4) some mathematical constants. 68 figures, diagrams and maps illustrate the text.

No. of References: A few in Russian in the text and footnotes
Facilities: None

PAVLOV, A.F., otvetstvennyy redaktor; SLAVOMOSOV, A.Kh., redaktor izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor

[Reducing labor consuming operations in triangulation surveying] Snizhenie trudoemkosti marksheiderskikh triangulatsii. Moskva, Ugletekhizdat, 1957. 199 p. (MLRA 10:10)
(Triangulation)

ABRAMOV, S.K., kand.tekhn.nauk; AVERSHIN, S.G., prof., doktor tekhn.nauk; AMMOSOV, I.I., doktor geol.-min.nauk; ANDRIYEVSKIY, V.D., inzh.; ANTROPOV, A.N., inzh.; AFANAS'YEV, B.L., inzh.; BERGHAN, Ya.V., inzh.; BLOKHA, Ye.Ye., inzh.; BOGACHEVA, Ye.N., inzh.; BUKRINSKIY, V.A., kand.tekhn.nauk; VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV, B.G., inzh.; GOLUBEV, S.A., inzh.; GORDIYENKO, P.D., inzh.; GUSEV, N.A., kand.tekhn.nauk; DOROKHIN, I.V., kand.geol.-min.nauk; KALMYKOV, G.S., inzh.; KASATOCHKIN, V.I., doktor khim.nauk; KOROLEV, I.V., inzh.; KOSTLIVTSEV, A.A., inzh.; KRATKOVSKIY, L.F., inzh.; KRASHENINNIKOV, G.F., prof. doktor geol.-min.nauk; KRIKUNOV, L.A., inzh.; LEVIT, D.Ye., inzh.; LISITSA, I.G., kand.tekhn.nauk; LUSHNIKOV, V.A., inzh.; MATVEYEV, A.K., dots., kand.geol.-min.nauk; MEPURISHVILI, G.Ye., inzh.; MIRONOV, K.V., inzh.; MOLCHANOV, I.I., inzh.; NAUMOVA, S.N., starshiy nauchnyy sotrudnik; NEKIPELOV, V.Ye., inzh.; PAVLOV, F.F., doktor tekhn.nauk; PANYUKOV, P.N., doktor geol.-min.nauk; POPOV, V.S., inzh.; PYATLIN, M.P., kand.tekhn. nauk; RASHKOVSKIY, Ya.E., inzh.; ROMANOV, V.A., prof., doktor tekhn. nauk; RYZHOV, P.A., prof., doktor tekhn.nauk; SELYATITSKIY, G.A., inzh.; SPERANSKIY, M.A., inzh.; TERENT'YEV, Ye.V., inzh.; TITOV, N.G., doktor khim.nauk; GOKAREV, I.F., inzh.; TROYANSKIY, S.V., prof.; doktor geol.-min.nauk; FEDOROV, B.D., dots., kand.tekhn.nauk; FEDOROV, V.S., inzh. [deceased]; KHOMENTOVSKIY, A.S., prof., doktor geol.-min.nauk; TROYANOVSKIY, S.V., otvetstvennyy red.; TERPIGOREV, A.M., red.; KRIKUNOV, L.A., red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.; BURTSEV, M.P., red.; VASIL'YEV, P.V., red.; MOLCHANOV, I.I., red.; RYZHOV, P.A., red.; BALANDIN, V.V., inzh., red.; BLOKH, I.M., kand. tekhn.nauk, red.; BUKRINSKIY, V.A., kand.tekhn.nauk, red.; VOLKOV, K.Yu., inzh., red.; VOROB'YEV, A.A., inzh., red.; ZVONAREV, K.A., prof. doktor tekhn.nauk, red.

(Continued on next card)

ABRAMOV, S.K.--- (continued) Card 2.

ZDANOVICH, V.G., prof., doktor tekhn.nauk, red.; IVANOV, G.A., doktor geol.-min.nauk, red.; KARAVAYEV, N.M., red.; KOROTKOV, G.V., kand.geol.-min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; MAKKAVEYEV, A.A., doktor geol.-min.nauk, red.; OMEL'CHENKO, A.N., kand.tekhn.nauk, red.; SEMDERZON, E.M., kand.geol.-min.nauk, red.; USHAKOV, I.N., dots., kand. tekhn.nauk, red.; YABLOKOV, V.S., kand.geol.-min.nauk, red.; KOROLEVA, T.I., red.izd-va; KACHALKINA, Z.I., red.izd-va; PROZOROVSKAYA, F.L., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedia handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav. red. A.M.Terpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol.2. [Geology of coal deposits and surveying] Geologiia ugol'nykh mestorozhdenii i marksheiderskoe delo. Redkolegiia toma S.V.Troianskiy. 1957. 646 p. (MIRA 11:5)

1. Chlen-korrespondent AN SSSR (for Karavayev)
(Coal geology--Dictionaries)

SOV/154-58-2-12/22

AUTHOR: Zyonarev, K. A., Professor, Doctor of Technical Sciences

TITLE: With Reference to the Article by A. M. Leonov (Po povodu stat'i A. M. Leonova) Some Problems in Connection With the Formation of Marksheyder Mining Triangulations (Nekotoryye voprosy geometricheskogo postroyeniya Marksheyderskikh (rudnichnykh) triangulyatsiy)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 2, pp 105-106 (USSR)

ABSTRACT: This is a letter to the editors of the present periodical. The author is of the opinion that present fundamental work in the field of geodesy in the USSR creates a new geodetic basis for the development of new surveys (of all scales) as well as for the solution of geodetic engineering problems (also those according to the Marksheyder principle). The author considers the elimination of triangulation nets of the 5th and 6th classes (according to Marksheyder) by A. M. Leonov unacceptable. Here, he refers to his papers (quoted by Leono ; in which he says that he permits three and four density stages of the triangulation of the 2nd class and uses nets with sides of 2,3 and 1,5 km

With Reference to the Article by A. M. Leonov. Some Problems in Connection With the Formation of Marksheyder Mining Triangulations

length, respectively. The author proves that the establishment of nets with a point density of more than 1,5 km (whereby points are placed directly among the points of the third and even second classes) is rational. The rather disadvantageous multi-stage structure of triangulation nets for the purposes of the Marksheyder method, to which A. M. Leonov wants to revert, is more precisely defined by the author.

ASSOCIATION: Leningradskiy ordena Lenina Gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad Lenin Order State University imeni A. A. Zhdanov)

SUBMITTED: May 22, 1958

ZVONAREV, K.A.

Basic problems in present-day cartography [with summary in English]. (MIRA 11:5)
Vest. LGU 13 no.6:91-100 '58.
(Cartography)

ZVONAREV, K.A.

All-Union conference of Universities of the U.S.S.R. on scientific methods in geography. Vest.LGU 13 no.18:167-169 '58. (MIRA 12:1)

(Geography--Study and teaching)

ZVONAREV, K.

On the "Geodesy and cartography" journal. Mat. Otd. mat. geog. i kart. Geog. ob-va SSSR no.1:47-48 '61. (MIRA 17:8)

ZVONAREV, K.A.

Scientific legacy of V.V.Kavraiskii. Vest.LGU 18 no.6:143-149 '63. (MIRA 16:4)

(Kavraiskii, Vladimir Vladimirovich)

ZVONAREV, K.A.

Problems of cartography in the light of the CPSU program. Vest. LGU 17 no.18:56-62 '62. (MIRA 15:10)
(Cartography)

CHURKIN, Vladimir Gerasimovich; PAVLOVSKIY, Ye.N., akademik, glavnyy red.; ZVONAREV, K.A., doktor tekhn.nauk, red.; DAGIN, Ye.G., red.izd-va; VINOGRADOVA, N.F., tekhn.red.

[Geographical atlases] Geograficheskie atlasy. Moskva, Izd-vo Akad. nauk SSSR, 1961. 116 p. (Geograficheskoe obshchestvo SSSR. Zapiski. Novaia seriia, vol.21.) (MIRA 14:7)

(Atlases)

ZDANOVICH, Vyacheslav Grigor'yevich; KELL', Nikolay Georgiyevich; ZVONAREV, Klimentiy Aleksandrovich; BELOLIKOV, Antonin Nikolayevich; GUSEV, Nikolay Andreyevich; BUGAYETS, Ye.A., otv. red.; SLAVOROSOV, A.Kh., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.

[Advanced geodesy] Vysshaia geodeziia. By V.G.Zdanovich i dr. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 607 p. (MIRA 15:1)

(Geodesy)

ZVONAREV, N.K., inzh.

Nomograms for solving problems of the station of ground masses. [Trudy] VNIMI no.47[illegible]59-76 '62 (MIRA 17:7)

CHEKMAREV, A.P.; RABINOVICH, S.N.; Prinimali uchastiye: KUS'MIN, V.P.; ZVONAREV, V.K.; DEMKO, V.M.

Investigating power conditions in the rolling of lightweight shaped sections on a 550mm. medium section mill. Izv. vys. ucheb. zav.; chern. met. 6 no.4:56-67 '63. (MIRA 16:6)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Rolling mills)

L 01053-66 EPA(s)-2/EWT(m)/EWP(w)/EWA(d)/EWP(n)-2/T/EWP(t)/EWP(b) EB/JD/WW

ACCESSION NR: AP5014539 UR/0089/65/018/005/0483/0487
621.039.542:621.039.548

AUTHOR: Likhachev, Yu. I.; Zvonarev, V. P.; Pupko, V. Ya.

TITLE: Internal stresses due to uneven swelling of fissioning material

33
19 B

SOURCE: Atomnaya energiya, v. 18, no. 5, 1965, 483-487

TOPIC TAGS: fissioning material, reactor fuel element, fuel element swelling, internal stress, macrostress

ABSTRACT: The authors consider a new cause of macrostresses of the first kind in fuel elements, namely uneven swelling of the fissioning material, brought about by the fact that the fission products are not produced at equal rates over the cross section of the fuel element. The resultant stresses are calculated under certain simplifying assumptions, with a fuel element in the form of a long solid cylindrical rod as an example. The joint action of the stresses due to uneven swelling and of the temperature stresses is considered for brittle material, for plastic material with negligible creep (metal at relatively low temperature), and plastic material with appreciable creep (relatively high temperature level). It is shown that the uneven swelling must be taken into account in the strength calculations in the case of brittle material and material with negligible creep. Orig. art.

Card 1/2

L 01063-66

ACCESSION NR: AP5014539

has: 2 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 25May64 ENCL: 00 SUB CODE: NP

NR REF SOV: 003 OTHER: 004

Card 2/2 /.1

GORODETSKAYA, E.G. [Horodets'ka, E.H.]; ZVONAREVA, G.N. [Zvonar'ova, H.N.]; SOFIYENKO, T.A. [Sofiienko, T.A.]; YARMOLENKO, R.A.; ZHADANOVA, R.I.

Ballistocardiography in cardiovascular pathology in children. Fiziol. zhur. [ukr.] 8 no.5:600-608 S-O '62. (MIRA 17:11)

1. Department of Pediatrics of the Kiyev Post-Graduate Institute for Physicians and the First Children's Hospital of Shevchenko District, Kiyev.

ZVONAREVA, G. N., Cand Med Sci -- "Condition of the cardiovascular system in typhoid-paratyphoid diseases of children according to ~~data supplied by the clinic and cardiographs~~ clinical and cardiographic data."
Stalino, 1961. (Min of Health UkSSR. Stalin State Med Inst im A. M. Gor'kiy) (KL, 8-61, 261)

LEVIN, M.M.; ZVONAREVA, L.F.

Performance of peak diode voltmeters in measuring voltage of video pulses. Izm. tekh. no.1:47-50 Ja '64.

(MIRA 17:11)

ACCESSION NR: AP4007678 S/0214/63/000/007/0064/0067

AUTHOR: Zvonareva, M. L.

TITLE: The H_α line in the prominence spectra

SOURCE: Solnechny*ye danny*ye, no. 7, 1963, 64-67

TOPIC TAGS: solar prominence, hydrogen line, chromosphere, prominence spectrum, solar flare, H_α line

ABSTRACT: Parameters which characterize the physical conditions in solar prominences can be determined by comparison of theoretical and observational contours of the H_α line. Spectrograms obtained in the summer of 1960 at Pulkovo were used for determining cross sections of the H_α line at various heights above the chromosphere level. Formulas for computing contours and intensities of hydrogen lines were developed by solving the problem of diffusion of radiation with redistribution of energy between lines, in accordance with the frequency within the line. The velocity of gas motion in a prominence is found to be 11 km sec^{-1}. Photometric cross sections of the H_α line become narrower with increasing height above the chromosphere level. This phenomenon

Card 1/2

ACCESSION NR: AP4007678

may be caused by decreased scattering of quanta from the center of prominence toward its periphery without any change in the physical conditions within the prominence. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Kafedra astrofiziki Leningradskogo gosudarstvennogo universiteta (Department of Astrophysics, Leningrad State University)

SUBMITTED: 00 DATE ACQ: 21Jan64 ENCL: 00

SUB CODE: AS NO REF SOV: 001 OTHER: 000

ARAKELYAN, M.A.; ZVONAREVA, M.L.; KOLESOV, A.K.

Calculating the Rosseland mean value for the atmospheres of hot stars. Uch. Zap. LGU no.323:37-44 '64. (MIRA 17:12)

ZVONICEK, Jan, doc. Ing. dr.

Mollier i - x diagram and its use in designing evaporators. Prum potravin 15 no.5:226-235 My '64.

1. Faculty of Mechanical Engineering, Czech Higher School of Technology, Prague.

ZVONICEK, J., doc. inz. dr.

"Engineering for dairy and food products" by A.W. Farrall. Reviewed by Zvonicek. Prum potravin 15 no.4:204 Ap '64.

ZVONAREVA, M.L.

Contours of emission lines in noncoherent scattering. Vest.LGU 15 no.13:141-146 '60. (MIRA 13:7)
(Light--Scattering)

81250
S/043/60/000/13/14/016
C111/C222

24.4500

AUTHOR: Zvonareva, M.L.

TITLE: On the Contours of the Emission Lines at the non-Coherent Scattering

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1960, No. 13, pp. 141 - 146

TEXT: The author considers the radiation diffusion in a plane plate for a completely incoherent scattering. For the diffusion there results the integral equation

$$(9) \quad B(\tau) = \frac{\lambda}{2} \int_0^{\tau_0} K(|\tau - \tau'|)\, B(\tau')\, d\tau' + B_0(\tau) ,$$

where τ_0 is the optical thickness of the plate,

$$(10) \quad K(\tau) = A \int_{-\infty}^{\infty} \alpha^2(x)\, E\, i\, [\alpha(x)\tau]\, dx ,$$

On the Contours of the Emission Lines at the non-Coherent Scattering

S/043/60/000/13/14/016
C111/C222

(11) $E_1 y = \int_y^\infty e^{-y} \frac{dy}{y}$, $\alpha(x) = e^{-x^2}$, $A = \frac{1}{\sqrt{\pi}}$,

and B, B_0 are defined by

(3) $\varepsilon_\nu^0 = \sigma_\nu B_0$, $\varepsilon_\nu = \sigma_\nu B$,

where σ_ν , ε_ν are the coefficients of absorption and emission, ε_ν^0 relates to the direct emission of the sources. The solution of (9) is sought in the form

(13) $B(\tau) = a + b\tau - c\tau^2$.

The results of the numerical calculations of a,b,c are given in tables. Then the contours of the emission lines are obtained according to the formula

(24) $I(x) = \alpha(x) \int_0^{\tau_0} B(\tau) e^{-\alpha(x)\tau} d\tau$.

Card 2/3

81250

On the Contours of the Emission Lines at the non-Coherent Scattering

S/043/60/000/13/14/016
C111/C222

The appearance of a central depression is characteristical which appears for $\tau_o \sim 5$ and which increases with an increasing τ_o.

The author mentions D. Ivanova. There are 2 figures, 4 tables and 2 references : 1 Soviet and 1 Swiss.

4

Card 3/3

ZVONAREV, S. M., and A. F. FEOFANOV

Primenenie teoremy o trekh momentakh pri raschete gorizontal'nogo opereniia. (Tekhnika vozdushnogo flota, 1940, no. 12, p. 43-47, tables, diagrs.)

Title tr.: Application of the three moment equation in the design of horizontal control surfaces.

TL504.T4 1940

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZVONAREVA, M.L.

Contours of absorption lines associated with noncoherent diffusion. [with summary in English]. Vest. LGU 13 no.7:189-195 '58. (MIRA 11:5)

(Stars--Spectra)

AUTHOR: ZVONAREVA, M.L. 43-7-18/18

TITLE: The Contour of the Absoption Lines for an Incoherent Diffusion Process (O konturakh liniy pogloshcheniya pri nekogerentnom rasseyanii)

PERIODICAL: Vestnik Leningradskogo Universiteta, Seriya Matematiki, Mekhaniki i Astronomii, 1958, Nr 7 (2), pp 189-195 (USSR)

ABSTRACT: The author determines the contour of the absorption lines for a complete incoherent diffusion process and under the following assumption on the Planck's function $B_\nu(T)$:

$$B_\nu(T) = B_\nu(T_0)(a+b\tau+c\, e^{-m\tau}).$$

The paper joins papers of V.V.Sobolev [Ref.3,4] and the investigation carried out by the use of probability theoretical arrangements leads to an already published result of Ueno [Ref.5]. Some little numerical data are of certain interest.
There are 3 figures, 3 Soviet and 2 foreign references.

SUBMITTED: 18 May 1957
AVAILABLE: Library of Congress
Card 1/1 1. Functions-Theory 2. Diffusion

ZVONAREVA, S.I. (Moskva)

Zealous investigators. Priroda 49 no.5:79 My '60.
(MIRA 13:5)

(Nature study)

ZVONAREVA, S.I.

Study of karst phenomena by the participants of the All-Union Pioneers and Students Expeditions. Inform.sbor.Mezhd.kom.po izuch.geol.geogr. kar. no.1:227-232 '60. (MIRA 15:4)

1. TSentral'naya detskaya ekskursionno-turistskaya stantsiya. (Karst)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ZVONAREVA, V. G.

AVONAREVA, V. G.: "Homework in the English language in the tenth class in connection with polytechnic training." Academy of Pedagogical Sciences RSFSR. Sci Res Inst of Teaching Methods. Moscow, 1955. (Dissertation for the Degree of Candidate in Pedagogical Science.)

Knizhnaya letopis', No. 30, 1956. Moscow.

ZVONAREVA, V.V. (Moskva)

Prothrombin time in some infectious diseases. Klin.med. 36 no.3: 121 -124 Mr '58. (MIRA 11:4)

1. Iz bol'nitsy imeni S.P.Botkina (glavnyy vrach - prof. A.N. Shabanov, nauchnyy rekovoditel' raboty - doktor meditsinskikh nauk E.A.Gal'perin)

(PROTHROMBIN TIME, in various dis.
commun. dis. (Rus))
(COMMUNICABLE DISEASES, blood in
prothrombin time (Rus))

ZOLOTAREVA, Z.

Processing water fowl with hot water on a semiautomatic conveyer line. Mias. ind. SSSR. 30 no.4:36-37 '59. (MIRA 12:12)

1. Poltavskiy myasokombinat.
(Water birds) (Poltava--Poultry plants)

ZVONAREVA, Ye.

Hot water processing of waterfowl. Mias.ind.SSSR 30 no.1:43 '59. (MIRA 12:4)

1. Poltavskiy myasokombinat.
(Poultry plants)

(3)

1. Washing of the fusel oil which is withdrawn from batch rectification apparatus. S. V. Bushuev and Z. M. Zvonareva (Mitrofanov Alcohol Plant, Chelyabinsk). *Spirtovaya Prom.* 20, No. 1, 28–9(1954).—A simple device is described with drawing, where water is bubbled through the fusel oil.

Werner Jacobson

10-15-54 JAP

BUSHUYEV, S.V.; ZVONAREVA, Z.K.

Purification of fusel oil from periodic-action rectifiers. Spirt.prom. 20 no.1:28-29 '54. (MLRA 7:5)
(Fusel oil)

L 7520-66 EPA(s)-2/EPF(a)/EWP(j)/EWT(m)/ETC(m)/T IJP(c)/WW

ACCESSION NR: AP5016887 UR/0374/65/000/003/0087/0092
678:620.179.16

AUTHOR: Zvonarzh, V. (Purdubitse); Tamuzhs, I. (Purdubitse)

TITLE: Static and dynamic properties of fiberglass reinforced plastics. Part 2. The effects of thickness

SOURCE: Mekhanika polimerov, no. 3, 1965, 87-92

TOPIC TAGS: fiberglass reinforced plastic, plastic elasticity, elasticity modulus, polyester resin, Beer equation

ABSTRACT: In a previous communication (Mekh. polim., 1965, 1, 146), the authors described the influence of the individual components of polyester resin and glass on the dynamic E and G moduli, and the mechanical loss coefficients d and d' of fiberglass-reinforced plastics. The present paper is devoted to the study of thickness effects, i.e., the influence of the number of layers and the thickness of single layers on the statically and dynamically determined E and G elasticity moduli. The temperature effects were also studied. The fiberglass-reinforced plastic was made of Vinylast 3[illegible] and the unsaturated CHS-Polyester 104 resin with 2% methyl-ethyl ketone peroxide and 1% of a 10% solution of cobalt naphthenate in toluene. Tests showed that the E and G moduli are, for all practical purposes, independent of the total thickness of the material; they are sensitive, however, to the thickness of a single elementary layer, i.e., to the glass content

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ACCESSION NR: AP5016837

within the plastics. The results are in good agreement with theoretical approximate equations; the systematic deviation indicates that the Beer equation (F. Beer, VDI Ztschr., 1959, 101, 463) neglected the wave-like packing of the fibers and assumed an ideal connection between the resin and glass. The dynamic moduli are, as a rule, larger (in absolute terms) than the corresponding static quantities and the difference increases with the temperature. Orig. art. has: 10 formulas, 2 figures, and 3 tables.

ASSOCIATION: None

SUBMITTED: 10Nov64 ENCL: 00 SUB CODE: MT

NO REF SOV: 002 OTHER: 003

Card 2/2

ZVONKOVA, Z.V.; RODIONOV, A.N.; POVET'YEVA, Z.P.

Role of hydrogen bonding in the structures of crystalline hydrates of compound thiocyanates of metals. Kristallografiia 8 no.2:275-277 Mr-Ap '63. (MIRA 17:8)

1. Fiziko-khimicheskiy institut imeni Karpova.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ZVONICEK, Jan, doc. inz. dr.

Basic processes of food industry technology. Prum potravin 16 no.1:Suppl:no.1:1-8 '65.

STOLBA, F., inz.; ZVONICEK, F.

Experiences in taking winter precautions in waterworks. Vod hosp 15 no.1:6-9 '65.

1. Prazske vodarny, Prague.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1

ACC NR: AP6029031 SOURCE CODE: UR/0413/66/000/014/0042/0042

INVENTORS: Klimov, V. V.; Androyov, A. Ya.; Nakhodnova, A. P.; Kozachenko, V. N.; Akhkozov, Ye. A.; Ivanov, D. G.; Didkovskaya, O. S.; Zvonik, V. A.

ORG: none

TITLE: A method for obtaining a piezoceramic material. Class 21, No. 183812 [announced by Donets Branch of All-Union Scientific Research Institute of Chemical Reagents and of High Purity Chemicals (Donetskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 42

TOPIC TAGS: piezoelectric ceramic, barium compound, lead compound, calcium compound, titanium compound, sintered alloy

ABSTRACT: This Author Certificate presents a method for obtaining a piezoceramic material from a mixture of barium, lead, calcium, and titanium compounds by sintering this mixture. To lower the temperature of sintering this material, the above compounds are used in the form of nitric acid solutions of barium, lead, calcium, and titanium. This solution is atomized in a stream of air at the temperature of 400—500C. After this, the powder is sintered at the temperature of 800—1000C.

SUB CODE: 11/ SUBM DATE: 21May64

Card 1/1 UDC: 621.315.612:537.226.33

ZVONIMIR, Duric

"Some information about the prices of construction of hydro electric stations in the Brbas - Pliva system"

SO: ELEKTROPRIVREDA, May - June 1955

L 40046-66 EWT(m)/EWP(t)/ETI IJP(c) WW/JD

ACC NR: AP6029824 SOURCE CODE: UR/0363/66/002/008/1483/1486

53
52
B

AUTHOR: Klimov, V. V.; Kozachenko, V. N.; Didkovskaya, O. S.; Zvonik, V. A.; Kisel', T. P.; Andreyev, A. Ya.

ORG: All-Union Scientific Research Institute of Chemical Reagents and High-Purity Substances, Donets Branch (Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chislykh veshchestv, Donetskiy filial)

TITLE: Preparation of piezo- and ferroelectric ceramics using spray dried solutions

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 8, 1966, 1483-1486

TOPIC TAGS: peizoelectric ceramic, ferroelectric material, ceramic technology, ceramic product property, barium titanate, titanate, lead, calcium

ABSTRACT: A preparative method was described for piezo- and ferroelectric ceramic materials on the base of triple titanate of barium, lead, and calcium. The method was designed to replace the conventional ceramic sintering technique in view of its substantial disadvantages. The first step of the described method consisted of preparation of the finely dispersed (particle size 6—8 μ) powder of the basic barium, lead, and calcium nitrates by spray drying of their aqueous solutions following a technique invented by the authors [Author Certificate no. 901979-29-14, 21.05.1964]. The powdered nitrates were then converted into titanates of varied

Card 1/2

UDC: 666.3:537.226.33+666.3:537.228.1

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

L 43010-66

ACC NR: AP6029824

composition by firing the nitrate powder at 900—1000C at which temperature formation of the solid solutions with perovskite structure is completed. The particle size of titanates after firing was about 1 μ. High-purity powders may be obtained from adequately pure starting materials. The sintering of these powders into ceramic products occurs at a temperature in the 1230—1280C range, which is 100—150C lower than the temperature range of sintering the powders produced by conventional ceramic technique. The electrophysical properties of the ceramic products obtained by spray drying were shown to be superior to those of the products of ceramic technology. Notably, the piezoelectric modulus (d_{31}) was comparatively higher and, in certain samples, constant in the -60 to +80C range. Universality of the method described was stressed, insofar as it may be applied to most of the ferro- and piezoelectric ceramics presently used. Orig. art. has: 4 figures and 2 tables. [JK]

SUB CODE: 11/ SUBM DATE: 220ct65/ ORIG REF: 001/ ATD Press 5065

Card 2/2 10

ZVONIMIR GALL

"A biological Method of investigation of Insectioides in Vitro". Zvonimir Gall & Isak Levi Vets. at Vet. Inst. of Republic of Bosnia-Hercegovina, Sarajavo.

SOURCE: Vet., SVEZAK 4, p. 667, 1953

BULACH, M.M.; Kand. geol.-mineral. nauk;
ROMM, Ye.S.; GORYUNOV, I.I.; GMID, L.P.; GROMOV, V.K.;
DOROFEYEVA, T.V.; KNORING, L.D.; KALACHEVA, V.M.; TATARINOV,
I.V.; KLEYNOSOV, Yu.F.; KAPLAN, M.Ye.; ZVONITSKAYA, I.V.;
MAZURKEVICH, Z.I.; DRRYABINA, N.N.; RUSAKOVA, L.Ya., vedushchiy
red.; BARANOVA, L.G., tekhn. red.

[Methodological text on the study of the fracturing of rocks
and fractured oil and gas reservoirs]. Metodicheskoe posobie
po izucheniiu treshchinovatosti gornykh porod i treshchinnykh
kollektorov nefti i gaza. Leningrad, Gostoptekhizdat, 1962.
76 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'-
skii geologorazvedochnyi institut. Trudy, no.201).
(MIRA 16:4)

(Joints(Geology)) (Oil sands)

FRUGTSHAIM, M.F., ZVONITSKAIA, T.M.

Hypertonia in scarlet fever in children. Sovet.med. no.3:9-10 Mr '50. (CLML 19:2)

1. Of the Department of Children's Diseases, First Moscow Order of Lenin Medical Institute (Director of Department -- Prof. V.I.Molchanov).

S/123/61/000/014/015/045
A004/A101

AUTHORS: Zvonitskiy, A. Yu.; Belosel'skiy, N. V.

TITLE: The practice of developing and introducing the gang technology.

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 14, 1961, 2, abstract 14B8. (V sb. "Gruppovaya tekhnol. v mashinostr. i priborostr." Moscow - Leningrad, Mashgiz, 1960, 323-339)

TEXT: The introduction of the gang method was started with automatic and turret-lathe operations. For these purposes small-size pneumatic units with a clamping stress of 500 kg were utilized which made it possible to fasten in one fixture 3-4 parts simultaneously. The authors describe: a four-position gang fixture for the milling of slots, grooves and flats, a 72-position gang setting of a lapping automatic, indexing draw-in attachment, semi-automatic gang milling fixture for the processing of horned nuts, for-spindle drilling head with adjustable inter-center distances, gang jigs with automatic fastening and ejection of parts, fixture for the mandrel-less winding of cylindrical springs increasing the productivity by a factor of 10-15. The authors present examples of gang

S/123/61/000/014/015/045
A004/A101

The practice of developing and introducing the ...

machining on centerless grinding and thread-rolling machines, as well as on cold-upsetting automatics. There are 16 figures.

I. Briskman

[Abstracter's note: Complete translation]

Card 2/2

PHASE I BOOK EXPLOITATION SOV/3998

Zvonitskiy, Aleksandr Yulianovich, Engineer

Opyt gruppovoy obrabotki detaley na revol'vernykh stankakh (The Practice of Group Machining of Parts on Turret Lathes) Leningrad, 1959. 23 p. (Series: Leningrad. Dom nauchno-tekhnicheskoy propagandy. Obmen peredovym opytom. Seriya: Mekhanicheskaya obrabotka metallov, vyp. 10) 6,500 copies printed.

Sponsoring Agencies: Leningrad. Dom nauchno-tekhnicheskoy propagandy, and Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Ed.: I.I. Verzhbinskaya, Engineer; Tech. Ed.: V.L. Gvirts.

PURPOSE: This booklet is intended for production engineers and technicians in machine-building plants.

COVERAGE: The booklet deals with group machining of parts on turret lathes. Two basic groups of turret lathes are discussed: 1) the 1336M turret lathe of the Kiyevskiy zavod (Kiyev Plant) and the "Skoda-36" with 36-mm spindle holes, and 2) turret lathes of the "Boley-type", such as "Boley", "Leynen," and "Wolman".

Card 1/2

with 10- and 20-mm spindle holes. The author states that the adoption of group machining of parts on turret lathes results in considerable economy of machining time and the number of special fixtures and cutting tools required. The method of group machining is explained by means of classification diagrams, operation instruction sheets, and classification guiding sheets. The material presented is said to be limited in scope, as it is based on practices and methods developed in only one plant. No personalities are mentioned. There are 3 references, all Soviet.

TABLE OF CONTENTS: None given.

AVAILABLE: Library of Congress

VK/pw/gmp
7-27-60

GAFT, Ya.M., kand.med.nauk; Prinimali uchastiye: BRANZBURG, N.A., vrach; GOL'TS, I.P., vrach; GORELIK, Ye.S., vrach; ZVONKINA, O.M., vrach; LIVSHITS, R.I., vrach; LUR'YE, Ye.L., vrach; OZHE, N.B., vrach; RYBAL'SKAYA, V.G., vrach; CHELNOKOVA, A.K., vrach; YAVORSKIY, A.V., vrach

Dynamics of the tuberculous process in patients transferred to the third group of dispensary registration. Probl. tub. 38 no.3:3-8 '60. (MIRA 14:5)

1. Iz protivotuberkuleznogo dispansera No.4 Moskvy (glavnyy vrach - zasluzhennyy vrach RSFSR S.M.Zamukhovskiy).
(TUBERCULOSIS)

BUTOMO, D.G.; VAYZHLYA, N.M.; ZVONKINA, V.F.; KOSHURIN, A.V.; SERGEYEV, L.N.; FRUMKINA, Yu.A.

Concerning the "Handbook on the processing of nonferrous metals and alloys" TSvet.met. 35 no.12:60 D '62. (MIRA 16:2)

1. Sovet Nauchno-tekhnicheskogo obshchestva zavoda "Krasnyy Vyborzhets".

(Nonferrous metals)

ZVONKO, Lukacevic

A new method for electric-arc welding in CO_2. UM. Zavarivanje 5 no.11/12:260-266 D '62.

KOS'KOV, B.I.; MUKHIN, N.S.; SMIRNOV, A.A., kand. tekhn. nauk; NIKITIN, V.I., prepodavatel'; KONDRAT'YEVA, N.Ya., kand. tekhn. nauk, prepodavatel'; LOSEV, K.A., dotsent; ZVONKOV, A.P.; KOMAROVSKIY, V.M.; MARCHENKO, S.N., kand. tekhn. nauk

Discussion of an article by B.I. Gerzhuly. Geod. i kart. no.4:28-36 Ap '64. (MIRA 17:8)

1. Nachal'nik tekhnicheskogo otdela Moskovskogo gorodskogo tresta geologo-geodezicheskikh i kartograficheskikh rabot (for Kos'kov). 2. Nachal'nik kompleksnogo otdela Moskovskogo otdeleniya TSentral'nogo tresta inzhenerno-stroitel'nykh izyskaniy (for Mukhin). 3. Nachal'nik geodezicheskoy sluzhby pri Upravleni glavnogo arkhitektora Voronezha (for Smirnov) 4. Kafedra geodezii Khabarovskogo politekhnicheskogo instituta (for Nitkin). 5. Kafedra kartografii Leningradskogo gosudarstvennogo universiteta (for Kondrat'yeva). 6. Kuybyshevskiy inzherno-stroitel'nyy institut (for Losev). 7. Rukovoditel' sektora Nauchno issledovatel'skogo institut gradostroitel'stva Kiyev (for Marchenko).

ACCESSION NR: AP4041736 S/0181/64/006/007/2198/2200

AUTHORS: Girayev, M. A.; Karpovich, I. A.; Zvonkov, B. N.

TITLE: Frequency dependence of the field effect in photosensitive films of CdS

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2198-2200

TOPIC TAGS: thin film, cadmium sulfide, photoconductivity, frequency dependence, carrier mobility, photosensitivity

ABSTRACT: The investigation was undertaken in view of recent interest in such films, brought about by the development of field-effect transistors on their basis (P. K. Weimer, Proc. IRE v. 50, 1526, 1962). The films were prepared on glass substrates by evaporation in vacuum, and activated by heat treatment with air in a photoconductor powder. The frequency dependence was investigated by the method of Aigrain et al. (J. Phys. Rad. v. 13, 587, 1952). Constant

illumination was used to reduce the layer resistance and to make the method usable at high temperatures. The effective carrier mobility was found to be practically independent of the temperature but highly dependent on the intensity of illumination. For unactivated CdS layers with increased dark conductivity and weak photosensitivity, the effective mobility did not exceed 1 $cm^2/V\text{-}sec$ and was practically constant up to 20 kcs. The appreciable change in the effective mobility of photosensitive layers occurs in the same frequency interval in which the photocurrent changes strongly as a frequency of the light modulation frequency and is apparently connected with relaxation of the photoconductivity. The decrease in mobility beyond about 20 kcs may be due to disturbance of the equilibrium of the induced carriers with rapid surface states. A somewhat unexpected effect is that in polycrystalline CdS films the effective mobility at high frequencies may become comparable with that for CdS single crystals. This is confirmed by Hall-effect measurements, which will be reported elsewhere. "The authors thank S. Abdiyev

ACCESSION NR: AP4041736

for preparing the samples for the investigation." Orig. art. has: 2 figures.

ASSOCIATION: Gor'kovskiy gosudarstvenny*y universitet (Gorkiy State University)

SUBMITTED: 22Feb64 ENCL: 02

SUB CODE: SS, EC NR REF SOV: 002 OTHER: 004

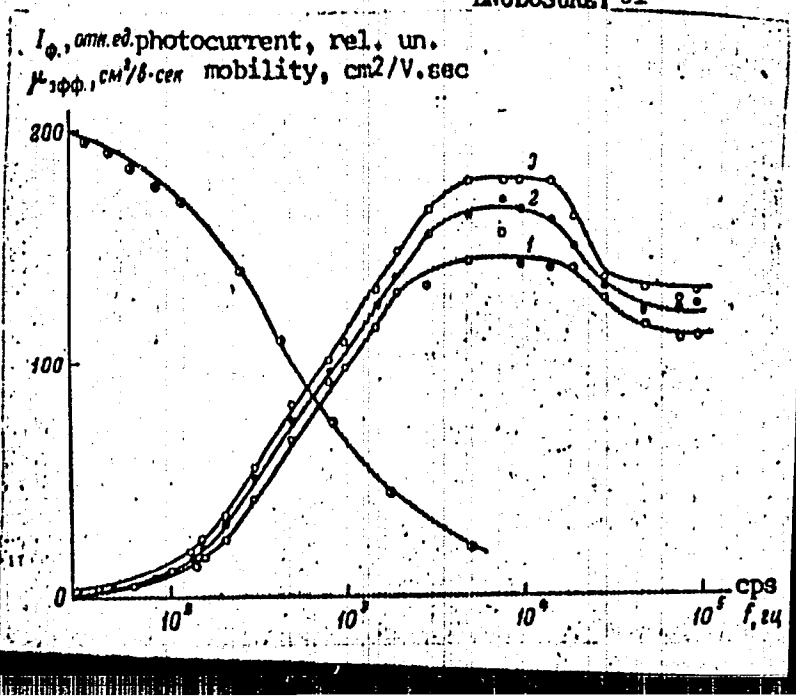
ACCESSION NR: AP4041736

ENCLOSURE: 01

Frequency dependence of effective carrier mobility in CdS film (sample 1) under constant illumination

T, °C: 1 - 25, 2 - 58, 3 - 88;

4 - photocurrent vs. light modulation frequency at 25C



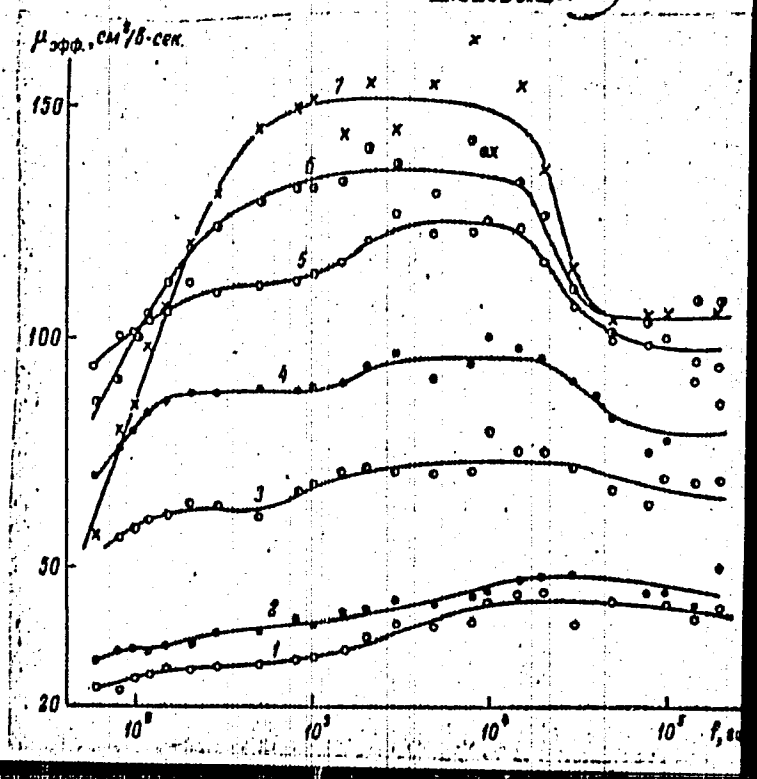
Card 4/5

ACCESSION NR: AP4041736

ENCLOSURE: 02

Frequency dependence of effective carrier mobility in CdS film (sample 2) under different illuminations

Film resistance under illumination, kilohm: 1 - 1000, 2 - 600, 3 - 300, 4 - 100, 5 - 40, 6 - 20, 7 - 10.



Card 5/5

RASKIN, D.M.; ZVONKOV, M.E.

Automatic welding of aluminum with a melting electrode. Avtom.svar. 9 no.1:21-28 Ja-F '56. (MIRA 9:6)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O.Patona AN USSR.
(Aluminum--Welding) (Electric welding)

RABKIN, D.M.; ZVONKOV, M.L.; VERCHENKO, V.A.

Making welded aluminum-magnesium alloy containers. Avtom. svar. 11 no.4:84-91 Ap '58. (MIRA 11:6)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR (for Rabkin, Zvonkov). 2. Trest po montazu prodovol'stvennykh predpriyatii (for Verchenko).
(Aluminum-magnesium alloy--Welding)
(Tanks--Welding)

RABKIN, D.M.; ZVONKOV, M.L.

Automatic welding of aluminum using twin electrodes. Avtom. svar. 11 no.5:25-31 My '58. (MIRA 11:6)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.

(Aluminum--Welding) (Electrodes)

AUTHORS: Rabkin, D.M., Candidate of Technical Sciences, Zvonkov, M.L. and Verchenko, V.A., Engineers

TITLE: Experience in Constructing Welded Aluminum-Magnesium Containers (Opyt izgotovleniya svarnykh yemkostey iz aluminiyevogo-magniyevogo splava)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 4, pp 84-88 (USSR)

ABSTRACT: A detailed description is given of all operations performed in assembling 700 m^3 aluminum-magnesium alloy containers at the Kombinat sinteticheskikh zhirozameniteley (Synthetic Fat Substitutes Combine). The electric arc welding method is used for all horizontal connections, and oxy-gas (propane-butane mixture) for the vertical welds which are welded by two operators simultaneously - one on the inside and one on the outside of the container, so that the operation proceeds with only one welding puddle. The information includes the chemical composition of the base metal - "AMg5B" alloy - and special "AN-A103" electrode coating and "AN-A201" flux developed for the purpose at the Electric Welding Institute imeni Paton (Tables 1, 2). The following persons participated in the work:

125-58-4-12/15

Experience in Constructing Welded Aluminum-Magnesium Containers

G.B. Al'terman, I.M. Bolotin, V.M. Pauler, L.D. Polonskiy, O.A. Videnskiy, P.K. Chubukov, I.I. Kravtsov, Ya.M. Yalovoy.

There are 3 tables and 7 photographs.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (Electric Welding Institute imeni Ye.O. Paton of the AS UkrSSR); Prodmontazh.

SUBMITTED: December 3, 1957

AVAILABLE: Library of Congress

Card 2/2

ZVONKOV. M.L.

AUTHORS: Rabkin, D.M., and Zvonkov, M.L. 125-58-5-4/13

TITLE: Automatic Welding of Aluminum by a Split Electrode (Avtomaticheskaya svarka alyuminiya rasshcheplennym elektrodom)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 5, pp 25-31 (USSR)

ABSTRACT: The peculiarities and application of the split-electrode method of welding were given previously [Ref. 2,3 and 4]. The method consists of the use of two electrodes moving parallel to one another and producing two puddles which merge when the distance between the electrodes diminishes. The merged-puddle is wider and shallower than the puddle produced by a single arc. The method is schematically illustrated (Fig. 1) and calculations of the fusion depth as a function of the distance between electrodes are made. The method permits welding butt-joints without the use of a steel support. The welds are dense, wide, with good mechanical properties. Regular welding equipment needs only minor adjustment when applying the split-electrode method: a special pulling-type holder (Fig. 5) with two pairs of guide pipes, and an additional bobbin for electrode wire. The method has been successfully introduced at the Kiyev plant

Automatic Welding of Aluminum by a Split Electrode

"Bol'shevik" where it is used for welding aluminum vessels (the technology is briefly described in figure 6 and 7). The following advantages resulted: consumption of electrode wire has been reduced by 40%, and electric energy by 20%. Work efficiency has increased three times as compared with manual arc welding. The following engineers of the "Bol'shevik" plant took part in developing the split-electrode welding technology: I.M. Mirgorodskiy, F.S. Bugriy, V.M. Ponomar', I.M. Savich, V.M. Grishchenko.
There are 7 figures and 5 Soviet references.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (Electric Welding Institute imeni Ye.O. Paton of the AS UkrSSR)

SUBMITTED: January 9, 1958

AVAILABLE: Library of Congress

PHASE I BOOK EXPLOITATION SOV/5078

Akademiya nauk URSR, Kiyev. Instytut elektrozvaryuvannya

Vnedreniye novykh sposobov svarki v promyshlennost'; sbornik statey, vyp. 3. (Introduction of New Welding Methods in Industry; Collection of Articles. v. 3) Kiyev, Gos. izd-vo tekhn. lit-ry UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni akademika Ye. O. Patona Akademii nauk Ukrainskoy SSR.

Ed.: M. Pisarenko; Tech. Ed.: S. Matusevich.

PURPOSE: This collection of articles is intended for personnel in the welding industry.

COVERAGE: The articles deal with the combined experiences of the Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton) and several industrial enterprises in solving scientific and engineering problems in welding technology. Problems in the application of new methods of mechanized welding and electroslag welding in industry are discussed. This is the third collection of articles published under the same title. The Foreword was written by B. Ye. Paton, Academician of the Academy of Sciences Ukrainian SSR and Lenin prize winner. There are no references.

TABLE OF CONTENTS:

(16)

PERIODICAL ABSTRACTS

Sub.: USSR/Engineering AID 4191 - P

RABKIN, D. M. and M. L. ZVONKOV

VOPROSY TEKHNOLOGII AVTOMATICHESKOY SVARKI ALYUMINIYA PLAVYASHCHIMSYA ELEKTRODOM (Technical problems in Automatic Welding of Aluminum with Melting Electrodes). Avtomaticheskaya svarka, no. 1, Ja/F 1956: 21-29.

The technique and equipment used in automatic welding of aluminum with semi-open melting electrodes are discussed: amount of current required, thickness of electrode-wire used and determination of the electrode feeding speed and most favorable voltage. The selection of the proper welding speed and the exact quantity of flux used to get the best quality of welded seam with consideration of the thickness of the metal to be welded, and a description of a spout mechanism for feeding electrode wire, as well as of a measuring hopper for spreading flux, are presented. One table, 3 graphs and 7 macropictures. Four Russian references, 1953-1955.

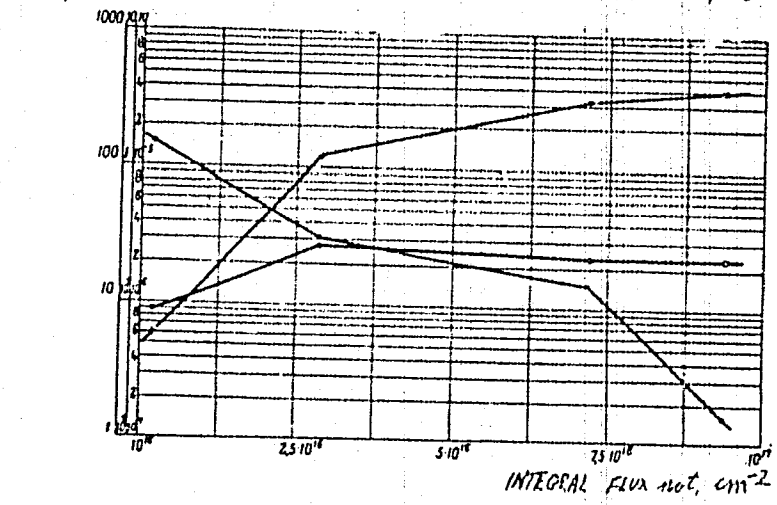


Fig. 4. I_{cs} (x), V_∞ (o) and R (•) of an U_3O_8-MgO sample vs integral neutron flux nvt at a constant neutron flux density of $8\cdot10^{12}$ $cm^{-2}\cdot sec^{-1}$.

Card 8/10

10% enriched sample gave a 15 times larger effect than the natural one. Authors used also oxides and sulfides of Be, Ni, Mo, W, Zn, and Co. In all cases they observed an emf, although the biggest effect occurred with the U_3O_8-MgO combination. Computation showed that in this last case 0.01% of the fragments' energy was transformed into electrical energy. Such small efficiency can be explained through the apparently short lifetime of the current carriers, and a poor relation between their diffusion path length compared with the sample thickness. The authors conclude that the emf is basically a result of a valve effect, although the volume and thermal emf may play some role too.
Professor A. K. Krasin showed interest, G. N. Ushakov collaborated during experiments, and R. G. Bulycheva, V. A. Shalin, and G. V. Rykov were partially involved in experimental work. There are 4 figures; and 6 references, 4 Soviet, 1 U.K., 1 U.S. The U.K. and

A Study of Electromotive Forces Generated in Semiconductor Systems Containing Uranium, When Irradiated in Reactors. Letter to the Editor

77227
SOV/89-8-1-21/29

U.S. references are: G. Kinchin, R. Pease, Repts Progr. Phys., 18, 1 (1955); J. Glen, Advances Phys., 4, Nr 16, 381 (1955).

SUBMITTED: August 3, 1959

Card 10/10

GOLUBEV, V.I.; ZVONAREV, A.V.; NIKOLAYEV, M.N.; ORLOV, M.Yu.

Effect of reflectors made from different materials on an increase in neutron capture by the uranium shielding of a fast reactor. Atom. energ. 15 no.3:258-259 S '63. (MIRA 16:10)

(Neutrons—Capture) (Nucelar reactors)

ACC NR: AP6021530 SOURCE CODE: UR/0089/66/020/006/0518/0520

AUTHOR: Zvonarev, A. V.; Koleganov, Yu. F.; Mikhaylus, F. F.; Nikolayev, M. N.

ORG: none

TITLE: Measurement of neutron spectra in the energy region up to 3 kev by resonant indicators

SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 518-520

TOPIC TAGS: neutron spectroscopy, reactor neutron flux, fast neutron, neutron capture/BR-1 reactor

ABSTRACT: The authors propose a modification of the method of V. I. Golubev et al. (Atomnaya energiya v. 11, 1961) for measuring neutron spectra at different points inside a nuclear reactor through the use of resonant self-screening of indicators by filters of the same material. The authors' modification, aimed at extending the possible energy range, consists of using the first resonances of neutron capture in W^{186}, Mn^{55}, and Na^{23}. The filter resonant self-screening factors needed to make use of the method are calculated for different thicknesses of the indicators themselves and of the filters surrounding them. Plots of these factors, obtained by a Monte Carlo computer calculation, are presented. The method was used to measure the distribution of neutrons with energies corresponding to the first resonances of In^{155}, Au^{197}, W^{186}, Mn^{55}, and Na^{23} inside a uranium block measuring 70 x 70 x 90 cm bombarding with neutrons in the Fermi spectrum. The results confirmed the possibility of

Card 1/2 UDC: 539.125.52

ACC NR APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"
AP6021530

using the proposed resonant indicators for reactor measurements. The authors thank V. I. Golubev, M. Yu. Orlov, and O. P. Uznadze for taking part in the work, and the crew of the BR-1 reactor and K. I. Nesterov for help with the measurements. Orig. art. has: 4 figures, 1 table, and 1 formula.

SUB CODE: 18/ SUBM DATE: 29Nov65/ ORIG REF: 010

Card 2/2 LC

GOLUBEV, V.I.; ZAVARITSKIY, A.V.; NIKOLAIEV, M.N.; ORLOV, M.Yu.

Effect of reflectors made from various materials on the number of neutrons captured in the uranium carbide shield of a fast reactor. Atom. energ. 15 no.4:327-328 O '63. (MIRA 16:10)

BONDARENKO, I.I. [deceased]; GOLUBEV, V.I.; ZVONAREV, A.V.; NIKOLAYEV, M.N.; ORLOV, M.Yu.; UZNADZE, O.P.

Neutron propagation in uranium carbide. Atom. energ. 17 no.2: 113-119 Ag '64 (MIRA 17:8)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ZVONAREV

MOROZOV, V.; ZVONAREV, E.; VINITSKIY, I.

Improve efficiency work. Den. i kred. 15 no.1:44-46 Ja '57. (MIRA 10:3)

(Banks and banking)

ZVONAREV, F.

Checking cash discipline at trade enterprises. Den. i kred. 15 no.7:49-50 Jl '57. (MLRA 10:8)
(Leningrad--Retail trade)
(Banks and banking)

ZVONAREV, F.

Consolidating gains made. Den. i kred. 13 no.5:31-32 My '55.
(Leningrad--Banks and banking) (MLRA 8:7)

ZVONAREV, I.; SENDERZON, E.; SHARUDO, I.; SHORIN, V.; SHUGUROV, V.; YUSUPOV, T.

In memory of Aleksei Borisovich Travin. Geol. i geofiz. no.4:116-119 '61. (MIRA 14:5)

(Travin, Aleksei Borisovich, 1908-1960)

Electrolyte. I. N. Zvonarev. U.S.S.R. 66,541, June 30, 1946. M. Hosch

ZVONAREV, I.N.

Fourth Conference of the Coordinating Committee on the Problem of "Regularities in the Distribution of Coals in the Earth's Crust." Geol. i geofiz. no.8:131-133 '62. (MIRA 15:10)
(Coal geology—Congresses)

ZVONAREV, I.N., otv. red.; CHERNOVA, L.I., red.; SHMAKOVA, Ye.G., tekhn. red.

[Papers of the First Conference of the Siberian Special Commission on the History of Coal Accumulation]Materialy pervogo soveshchaniia Sibirskoy tematicheskoy komissii po istorii uglenakopleniia. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR. No.1. 1961. 115 p. (MIRA 15:10)

1. Soveshchaniye Sibirskoy tematicheskoy komissi po istorii uglenakopleniya. 1st, Novosibirsk, 1959.
(Siberia--Coal geology)

ZVONAREV, I.N.

Third Conference of the Siberian Commission on the study of the Distribution of and Prospecting for coals in the U.S.S.R. Geol. i geofiz. no.11:125-127 '61. (MIRA 15:2)
(Coal geology)

ANATOL'IEVA, Anna Ivanovna; ZVONAREV, I.N., ovt.red.; GREYNER, R.N., red.; MAZUROVA, A.F., tekhn.red.

[Stratigraphy and problems of the Devonian paleogeography of the Minusinsk intermountainous trough] Stratigrafiia i nekotorye voprosy paleogeografii devona Minusinskogo mezhgornogo progiba. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1960. 50 p. (Akademiia nauk SSSR. Sibirskoe otdelenie. Institut geologii i geofiziki. Trudy, no.2). (MIRA 13:12)

(Minusinsk Basin--Geology, Stratigraphic)
(Minusinsk Basin--Paleography)

ZVONAREV, I.N.

Fifth Conference of the Interdepartmental Coordination Commission on the Problem "Characteristics of the Distribution of Fossil Coals in the Earth's Crust.". Geol. i geofiz. no.11:155-157 '64. (MIRA 18:4)

ZVONAREV, I.N.

Combined study of coal sediments in Western Siberia and the Krasnoyarsk Territory. Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.18:3-17 '56. (MIRA 13:11)

(Siberia--Coal geology)

KHLONOVA, Anna Fedorovna; GREINER, R.N., red.; ZVONAREV, I.N., kand.geol.-mineral.nauk, red.; MAZUROVA, A.F., tekhn.red.

[Specific composition of pollen and spore complexes in upper Cretaceous deposits of the Chulym-Yenisey Depression] Vidovoi sostav pyl'tsy i spor v otlozheniiakh verkhnego mela Chulymo-Eniseiskoi vpadiny. Novosibirsk, Izd-vo Sibirskogo otdeleniia AN SSSR, 1960. 104 p. (Akademiia nauk SSSR. Sibirskoe otdelenie. Institut geologii i geofiziki. Trudy, no.3). (MIRA 14:8)
(Chulym Valley--Palynology) (Yenisey Valley--Palynology)

ZVONAREV, I. N.

USSR/Coal Sep/Oct 1947
Geology

"High Remuneration," I. N. Zvonarev, 2 pp

"Razvedka Nedr" No 5

Discusses the Stalin Prize winners G. P. Radchenko, V. I. Skoku, I. I. Molchanov, V. V. Stanov and I. N. Zvonarev, who were responsible for most of the discovery and development of coal bases in Siberia. They belong to the West Siberian Geological Administration and the Kuznets Basin Coal Development Trust. The author discusses the success that this group of men has had in the discovery of coking coal in the Tom'-Usinskiy region.

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ZVONAREV, I.N.

The problem of Siberian petroleum. Izv.vost.fil.AN SSSR no.6:35-38 '57. (MLRA 10:9)

1. Zapadno-Sibirskiy filial Akademii nauk SSSR.
(Siberia--Petroleum geology)

ZVONAREV, I.N., otv. red.

[Coal geology of Siberia and the Far East] Geologiia uglei Sibiri i Dal'nego Vostoka. Moskva, Nauka, 1965. 174 p. (MIRA 18:12)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki.

ZVONAREV, [illegible]

Surveying

Problem of the minimum of operations in base networks of surface and mine surveying. (Trudy) VNIMI 22, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Uncl.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 673 - I

BOOK Call No.: AF500203

Author: ZVONAREV, K. A.
Full Title: CARTOGRAPHY
Transliterated Title: Kartografiya

PUBLISHING DATA

Originating Agency: None
Publishing House: Publishing House of Coal Technical Literature (UGLETEKHIZDAT)
Date: 1951 No. pp.: 212 No. of copies: 5,000
Editorial Staff
Tech. Ed.: Prof. V. V. Kavrayskiy and Prof. A. P. Yushchenko

PURPOSE: A textbook for students of Mine Engineering Departments, specializing in mine surveying. Approved by the Ministry of Higher Education of the USSR for students of institutions of higher learning. The book is dedicated to the 175th anniversary of the Leningrad Institute of Mining Engineers

TEXT DATA

Coverage: The preface states that the absence of a textbook on cartography corresponding to the mine surveying programs of mine institutes and forming part of the course in higher

geodsy made it necessary to publish this book. The text includes an introduction, four chapters, a conclusion and four supplements. Chapter I covers general information on cartographic projections; Chapter II, conical and corresponding azimuthal projections; Chapter III, cylindrical, perspective and other of the most important projections; Chapter IV, construction and publishing of charts. The conclusion gives a brief history of the development of cartography and the importance of cartography to the mine surveying engineer. The supplements include: 1) a table of the radii of currature of the spheroid of F. N. Krasovskiy for every degree of latitudes from 0° to 90°, 2) tables for computation of the projection of Krasovskiy's spheroid, 4) some mathematical constants. 68 figures, diagrams and maps illustrate the text.

No. of References: A few in Russian in the text and footnotes
Facilities: None

PAVLOV, A.F., otvetstvennyy redaktor; SLAVOMOSOV, A.Kh., redaktor izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor

[Reducing labor consuming operations in triangulation surveying] Snizhenie trudoemkosti marksheiderskikh triangulatsii. Moskva, Ugletekhizdat, 1957. 199 p. (MLRA 10:10)
(Triangulation)

ABRAMOV, S.K., kand.tekhn.nauk; AVERSHIN, S.G., prof., doktor tekhn.nauk; AMMOSOV, I.I., doktor geol.-min.nauk; ANDRIYEVSKIY, V.D., inzh.; ANTROPOV, A.N., inzh.; AFANAS'YEV, B.L., inzh.; BERGHAN, Ya.V., inzh.; BLOKHA, Ye.Ye., inzh.; BOGACHEVA, Ye.N., inzh.; BUKRINSKIY, V.A., kand.tekhn.nauk; VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV, B.G., inzh.; GOLUBEV, S.A., inzh.; GORDIYENKO, P.D., inzh.; GUSEV, N.A., kand.tekhn.nauk; DOROKHIN, I.V., kand.geol.-min.nauk; KALMYKOV, G.S., inzh.; KASATOCHKIN, V.I., doktor khim.nauk; KOROLEV, I.V., inzh.; KOSTLIVTSEV, A.A., inzh.; KRATKOVSKIY, L.F., inzh.; KRASHENINNIKOV, G.F., prof. doktor geol.-min.nauk; KRIKUNOV, L.A., inzh.; LEVIT, D.Ye., inzh.; LISITSA, I.G., kand.tekhn.nauk; LUSHNIKOV, V.A., inzh.; MATVEYEV, A.K., dots., kand.geol.-min.nauk; MEPURISHVILI, G.Ye., inzh.; MIRONOV, K.V., inzh.; MOLCHANOV, I.I., inzh.; NAUMOVA, S.N., starshiy nauchnyy sotrudnik; NEKIPELOV, V.Ye., inzh.; PAVLOV, F.F., doktor tekhn.nauk; PANYUKOV, P.N., doktor geol.-min.nauk; POPOV, V.S., inzh.; PYATLIN, M.P., kand.tekhn. nauk; RASHKOVSKIY, Ya.E., inzh.; ROMANOV, V.A., prof., doktor tekhn. nauk; RYZHOV, P.A., prof., doktor tekhn.nauk; SELYATITSKIY, G.A., inzh.; SPERANSKIY, M.A., inzh.; TERENT'YEV, Ye.V., inzh.; TITOV, N.G., doktor khim.nauk; GOKAREV, I.F., inzh.; TROYANSKIY, S.V., prof.; doktor geol.-min.nauk; FEDOROV, B.D., dots., kand.tekhn.nauk; FEDOROV, V.S., inzh. [deceased]; KHOMENTOVSKIY, A.S., prof., doktor geol.-min.nauk; TROYANOVSKIY, S.V., otvetstvennyy red.; TERPIGOREV, A.M., red.; KRIKUNOV, L.A., red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.; BURTSEV, M.P., red.; VASIL'YEV, P.V., red.; MOLCHANOV, I.I., red.; RYZHOV, P.A., red.; BALANDIN, V.V., inzh., red.; BLOKH, I.M., kand. tekhn.nauk, red.; BUKRINSKIY, V.A., kand.tekhn.nauk, red.; VOLKOV, K.Yu., inzh., red.; VOROB'YEV, A.A., inzh., red.; ZVONAREV, K.A., prof. doktor tekhn.nauk, red.

(Continued on next card)

ABRAMOV, S.K.--- (continued) Card 2.

ZDANOVICH, V.G., prof., doktor tekhn.nauk, red.; IVANOV, G.A., doktor geol.-min.nauk, red.; KARAVAYEV, N.M., red.; KOROTKOV, G.V., kand.geol.-min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; MAKKAVEYEV, A.A., doktor geol.-min.nauk, red.; OMEL'CHENKO, A.N., kand.tekhn.nauk, red.; SEMDERZON, E.M., kand.geol.-min.nauk, red.; USHAKOV, I.N., dots., kand. tekhn.nauk, red.; YABLOKOV, V.S., kand.geol.-min.nauk, red.; KOROLEVA, T.I., red.izd-va; KACHALKINA, Z.I., red.izd-va; PROZOROVSKAYA, F.L., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedia handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav. red. A.M.Terpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol.2. [Geology of coal deposits and surveying] Geologiia ugol'nykh mestorozhdenii i marksheiderskoe delo. Redkolegiia toma S.V.Troianskiy. 1957. 646 p. (MIRA 11:5)

1. Chlen-korrespondent AN SSSR (for Karavayev)
(Coal geology--Dictionaries)

SOV/154-58-2-12/22

AUTHOR: Zyonarev, K. A., Professor, Doctor of Technical Sciences

TITLE: With Reference to the Article by A. M. Leonov (Po povodu stat'i A. M. Leonova) Some Problems in Connection With the Formation of Marksheyder Mining Triangulations (Nekotoryye voprosy geometricheskogo postroyeniya Marksheyderskikh (rudnichnykh) triangulyatsiy)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 2, pp 105-106 (USSR)

ABSTRACT: This is a letter to the editors of the present periodical. The author is of the opinion that present fundamental work in the field of geodesy in the USSR creates a new geodetic basis for the development of new surveys (of all scales) as well as for the solution of geodetic engineering problems (also those according to the Marksheyder principle). The author considers the elimination of triangulation nets of the 5th and 6th classes (according to Marksheyder) by A. M. Leonov unacceptable. Here, he refers to his papers (quoted by Leono ; in which he says that he permits three and four density stages of the triangulation of the 2nd class and uses nets with sides of 2,3 and 1,5 km

With Reference to the Article by A. M. Leonov. Some Problems in Connection With the Formation of Marksheyder Mining Triangulations

length, respectively. The author proves that the establishment of nets with a point density of more than 1,5 km (whereby points are placed directly among the points of the third and even second classes) is rational. The rather disadvantageous multi-stage structure of triangulation nets for the purposes of the Marksheyder method, to which A. M. Leonov wants to revert, is more precisely defined by the author.

ASSOCIATION: Leningradskiy ordena Lenina Gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad Lenin Order State University imeni A. A. Zhdanov)

SUBMITTED: May 22, 1958

ZVONAREV, K.A.

Basic problems in present-day cartography [with summary in English]. (MIRA 11:5)
Vest. LGU 13 no.6:91-100 '58.
(Cartography)

ZVONAREV, K.A.

All-Union conference of Universities of the U.S.S.R. on scientific methods in geography. Vest.LGU 13 no.18:167-169 '58. (MIRA 12:1)

(Geography--Study and teaching)

ZVONAREV, K.

On the "Geodesy and cartography" journal. Mat. Otd. mat. geog. i kart. Geog. ob-va SSSR no.1:47-48 '61. (MIRA 17:8)

ZVONAREV, K.A.

Scientific legacy of V.V.Kavraiskii. Vest.LGU 18 no.6:143-149 '63. (MIRA 16:4)

(Kavraiskii, Vladimir Vladimirovich)

ZVONAREV, K.A.

Problems of cartography in the light of the CPSU program. Vest. LGU 17 no.18:56-62 '62. (MIRA 15:10)
(Cartography)

CHURKIN, Vladimir Gerasimovich; PAVLOVSKIY, Ye.N., akademik, glavnyy red.; ZVONAREV, K.A., doktor tekhn.nauk, red.; DAGIN, Ye.G., red.izd-va; VINOGRADOVA, N.F., tekhn.red.

[Geographical atlases] Geograficheskie atlasy. Moskva, Izd-vo Akad. nauk SSSR, 1961. 116 p. (Geograficheskoe obshchestvo SSSR. Zapiski. Novaia seriia, vol.21.) (MIRA 14:7)

(Atlases)

ZDANOVICH, Vyacheslav Grigor'yevich; KELL', Nikolay Georgiyevich; ZVONAREV, Klimentiy Aleksandrovich; BELOLIKOV, Antonin Nikolayevich; GUSEV, Nikolay Andreyevich; BUGAYETS, Ye.A., otv. red.; SLAVOROSOV, A.Kh., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.

[Advanced geodesy] Vysshaia geodeziia. By V.G.Zdanovich i dr. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 607 p. (MIRA 15:1)

(Geodesy)

ZVONAREV, N.K., inzh.

Nomograms for solving problems of the station of ground masses. [Trudy] VNIMI no.47[illegible]59-76 '62 (MIRA 17:7)

CHEKMAREV, A.P.; RABINOVICH, S.N.; Prinimali uchastiye: KUS'MIN, V.P.; ZVONAREV, V.K.; DEMKO, V.M.

Investigating power conditions in the rolling of lightweight shaped sections on a 550mm. medium section mill. Izv. vys. ucheb. zav.; chern. met. 6 no.4:56-67 '63. (MIRA 16:6)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Rolling mills)

L 01053-66 EPA(s)-2/EWT(m)/EWP(w)/EWA(d)/EWP(n)-2/T/EWP(t)/EWP(b) EB/JD/WW

ACCESSION NR: AP5014539 UR/0089/65/018/005/0483/0487
621.039.542:621.039.548

AUTHOR: Likhachev, Yu. I.; Zvonarev, V. P.; Pupko, V. Ya.

TITLE: Internal stresses due to uneven swelling of fissioning material

33
19 B

SOURCE: Atomnaya energiya, v. 18, no. 5, 1965, 483-487

TOPIC TAGS: fissioning material, reactor fuel element, fuel element swelling, internal stress, macrostress

ABSTRACT: The authors consider a new cause of macrostresses of the first kind in fuel elements, namely uneven swelling of the fissioning material, brought about by the fact that the fission products are not produced at equal rates over the cross section of the fuel element. The resultant stresses are calculated under certain simplifying assumptions, with a fuel element in the form of a long solid cylindrical rod as an example. The joint action of the stresses due to uneven swelling and of the temperature stresses is considered for brittle material, for plastic material with negligible creep (metal at relatively low temperature), and plastic material with appreciable creep (relatively high temperature level). It is shown that the uneven swelling must be taken into account in the strength calculations in the case of brittle material and material with negligible creep. Orig. art.

Card 1/2

L 01063-66

ACCESSION NR: AP5014539

has: 2 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 25May64 ENCL: 00 SUB CODE: NP

NR REF SOV: 003 OTHER: 004

Card 2/2 /.1

GORODETSKAYA, E.G. [Horodets'ka, E.H.]; ZVONAREVA, G.N. [Zvonar'ova, H.N.]; SOFIYENKO, T.A. [Sofiienko, T.A.]; YARMOLENKO, R.A.; ZHADANOVA, R.I.

Ballistocardiography in cardiovascular pathology in children. Fiziol. zhur. [ukr.] 8 no.5:600-608 S-O '62. (MIRA 17:11)

1. Department of Pediatrics of the Kiyev Post-Graduate Institute for Physicians and the First Children's Hospital of Shevchenko District, Kiyev.

ZVONAREVA, G. N., Cand Med Sci -- "Condition of the cardiovascular system in typhoid-paratyphoid diseases of children according to ~~data supplied by the clinic and cardiographs~~ clinical and cardiographic data."
Stalino, 1961. (Min of Health UkSSR. Stalin State Med Inst im A. M. Gor'kiy) (KL, 8-61, 261)

LEVIN, M.M.; ZVONAREVA, L.F.

Performance of peak diode voltmeters in measuring voltage of video pulses. Izm. tekh. no.1:47-50 Ja '64.

(MIRA 17:11)

ACCESSION NR: AP4007678 S/0214/63/000/007/0064/0067

AUTHOR: Zvonareva, M. L.

TITLE: The H_α line in the prominence spectra

SOURCE: Solnechny*ye danny*ye, no. 7, 1963, 64-67

TOPIC TAGS: solar prominence, hydrogen line, chromosphere, prominence spectrum, solar flare, H_α line

ABSTRACT: Parameters which characterize the physical conditions in solar prominences can be determined by comparison of theoretical and observational contours of the H_α line. Spectrograms obtained in the summer of 1960 at Pulkovo were used for determining cross sections of the H_α line at various heights above the chromosphere level. Formulas for computing contours and intensities of hydrogen lines were developed by solving the problem of diffusion of radiation with redistribution of energy between lines, in accordance with the frequency within the line. The velocity of gas motion in a prominence is found to be 11 km sec^{-1}. Photometric cross sections of the H_α line become narrower with increasing height above the chromosphere level. This phenomenon

Card 1/2

ACCESSION NR: AP4007678

may be caused by decreased scattering of quanta from the center of prominence toward its periphery without any change in the physical conditions within the prominence. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Kafedra astrofiziki Leningradskogo gosudarstvennogo universiteta (Department of Astrophysics, Leningrad State University)

SUBMITTED: 00 DATE ACQ: 21Jan64 ENCL: 00

SUB CODE: AS NO REF SOV: 001 OTHER: 000

ARAKELYAN, M.A.; ZVONAREVA, M.L.; KOLESOV, A.K.

Calculating the Rosseland mean value for the atmospheres of hot stars. Uch. Zap. LGU no.323:37-44 '64. (MIRA 17:12)

ZVONICEK, Jan, doc. Ing. dr.

Mollier i - x diagram and its use in designing evaporators. Prum potravin 15 no.5:226-235 My '64.

1. Faculty of Mechanical Engineering, Czech Higher School of Technology, Prague.

ZVONICEK, J., doc. inz. dr.

"Engineering for dairy and food products" by A.W. Farrall. Reviewed by Zvonicek. Prum potravin 15 no.4:204 Ap '64.

ZVONAREVA, M.L.

Contours of emission lines in noncoherent scattering. Vest.LGU 15 no.13:141-146 '60. (MIRA 13:7)
(Light--Scattering)

81250
S/043/60/000/13/14/016
C111/C222

24.4500

AUTHOR: Zvonareva, M.L.

TITLE: On the Contours of the Emission Lines at the non-Coherent Scattering

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1960, No. 13, pp. 141 - 146

TEXT: The author considers the radiation diffusion in a plane plate for a completely incoherent scattering. For the diffusion there results the integral equation

$$(9) \quad B(\tau) = \frac{\lambda}{2} \int_0^{\tau_0} K(|\tau - \tau'|)\, B(\tau')\, d\tau' + B_0(\tau) ,$$

where τ_0 is the optical thickness of the plate,

$$(10) \quad K(\tau) = A \int_{-\infty}^{\infty} \alpha^2(x)\, E\, i\, [\alpha(x)\tau]\, dx ,$$

On the Contours of the Emission Lines at the non-Coherent Scattering

S/043/60/000/13/14/016
C111/C222

(11) $E_1 y = \int_y^\infty e^{-y} \frac{dy}{y}$, $\alpha(x) = e^{-x^2}$, $A = \frac{1}{\sqrt{\pi}}$,

and B, B_0 are defined by

(3) $\varepsilon_\nu^0 = \sigma_\nu B_0$, $\varepsilon_\nu = \sigma_\nu B$,

where σ_ν , ε_ν are the coefficients of absorption and emission, ε_ν^0 relates to the direct emission of the sources. The solution of (9) is sought in the form

(13) $B(\tau) = a + b\tau - c\tau^2$.

The results of the numerical calculations of a,b,c are given in tables. Then the contours of the emission lines are obtained according to the formula

(24) $I(x) = \alpha(x) \int_0^{\tau_0} B(\tau) e^{-\alpha(x)\tau} d\tau$.

Card 2/3

81250

On the Contours of the Emission Lines at the non-Coherent Scattering

S/043/60/000/13/14/016
C111/C222

The appearance of a central depression is characteristical which appears for $\tau_o \sim 5$ and which increases with an increasing τ_o.

The author mentions D. Ivanova. There are 2 figures, 4 tables and 2 references : 1 Soviet and 1 Swiss.

4

Card 3/3

ZVONAREV, S. M., and A. F. FEOFANOV

Primenenie teoremy o trekh momentakh pri raschete gorizontal'nogo opereniia. (Tekhnika vozdushnogo flota, 1940, no. 12, p. 43-47, tables, diagrs.)

Title tr.: Application of the three moment equation in the design of horizontal control surfaces.

TL504.T4 1940

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZVONAREVA, M.L.

Contours of absorption lines associated with noncoherent diffusion. [with summary in English]. Vest. LGU 13 no.7:189-195 '58. (MIRA 11:5)

(Stars--Spectra)

AUTHOR: ZVONAREVA, M.L. 43-7-18/18

TITLE: The Contour of the Absoption Lines for an Incoherent Diffusion Process (O konturakh liniy pogloshcheniya pri nekogerentnom rasseyanii)

PERIODICAL: Vestnik Leningradskogo Universiteta, Seriya Matematiki, Mekhaniki i Astronomii, 1958, Nr 7 (2), pp 189-195 (USSR)

ABSTRACT: The author determines the contour of the absorption lines for a complete incoherent diffusion process and under the following assumption on the Planck's function $B_\nu(T)$:

$$B_\nu(T) = B_\nu(T_0)(a+b\tau+c\, e^{-m\tau}).$$

The paper joins papers of V.V.Sobolev [Ref.3,4] and the investigation carried out by the use of probability theoretical arrangements leads to an already published result of Ueno [Ref.5]. Some little numerical data are of certain interest.
There are 3 figures, 3 Soviet and 2 foreign references.

SUBMITTED: 18 May 1957
AVAILABLE: Library of Congress
Card 1/1 1. Functions-Theory 2. Diffusion

ZVONAREVA, S.I. (Moskva)

Zealous investigators. Priroda 49 no.5:79 My '60.
(MIRA 13:5)

(Nature study)

ZVONAREVA, S.I.

Study of karst phenomena by the participants of the All-Union Pioneers and Students Expeditions. Inform.sbor.Mezhd.kom.po izuch.geol.geogr. kar. no.1:227-232 '60. (MIRA 15:4)

1. TSentral'naya detskaya ekskursionno-turistskaya stantsiya. (Karst)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ZVONAREVA, V. G.

AVONAREVA, V. G.: "Homework in the English language in the tenth class in connection with polytechnic training." Academy of Pedagogical Sciences RSFSR. Sci Res Inst of Teaching Methods. Moscow, 1955. (Dissertation for the Degree of Candidate in Pedagogical Science.)

Knizhnaya letopis', No. 30, 1956. Moscow.

ZVONAREVA, V.V. (Moskva)

Prothrombin time in some infectious diseases. Klin.med. 36 no.3: 121 -124 Mr '58. (MIRA 11:4)

1. Iz bol'nitsy imeni S.P.Botkina (glavnyy vrach - prof. A.N. Shabanov, nauchnyy rekovoditel' raboty - doktor meditsinskikh nauk E.A.Gal'perin)

(PROTHROMBIN TIME, in various dis.
commun. dis. (Rus))
(COMMUNICABLE DISEASES, blood in
prothrombin time (Rus))

ZOLOTAREVA, Z.

Processing water fowl with hot water on a semiautomatic conveyer line. Mias. ind. SSSR. 30 no.4:36-37 '59. (MIRA 12:12)

1. Poltavskiy myasokombinat.
(Water birds) (Poltava--Poultry plants)

ZVONAREVA, Ye.

Hot water processing of waterfowl. Mias.ind.SSSR 30 no.1:43 '59. (MIRA 12:4)

1. Poltavskiy myasokombinat.
(Poultry plants)

(3)

1. Washing of the fusel oil which is withdrawn from batch rectification apparatus. S. V. Bushuev and Z. M. Zvonareva (Mitrofanov Alcohol Plant, Chelyabinsk). *Spirtovaya Prom.* 20, No. 1, 28–9(1954).—A simple device is described with drawing, where water is bubbled through the fusel oil.

Werner Jacobson

10-15-54 JAP

BUSHUYEV, S.V.; ZVONAREVA, Z.K.

Purification of fusel oil from periodic-action rectifiers. Spirt.prom. 20 no.1:28-29 '54. (MLRA 7:5)
(Fusel oil)

L 7520-66 EPA(s)-2/EPF(a)/EWP(j)/EWT(m)/ETC(m)/T IJP(c)/WW

ACCESSION NR: AP5016887 UR/0374/65/000/003/0087/0092
678:620.179.16

AUTHOR: Zvonarzh, V. (Purdubitse); Tamuzhs, I. (Purdubitse)

TITLE: Static and dynamic properties of fiberglass reinforced plastics. Part 2. The effects of thickness

SOURCE: Mekhanika polimerov, no. 3, 1965, 87-92

TOPIC TAGS: fiberglass reinforced plastic, plastic elasticity, elasticity modulus, polyester resin, Beer equation

ABSTRACT: In a previous communication (Mekh. polim., 1965, 1, 146), the authors described the influence of the individual components of polyester resin and glass on the dynamic E and G moduli, and the mechanical loss coefficients d and d' of fiberglass-reinforced plastics. The present paper is devoted to the study of thickness effects, i.e., the influence of the number of layers and the thickness of single layers on the statically and dynamically determined E and G elasticity moduli. The temperature effects were also studied. The fiberglass-reinforced plastic was made of Vinylast 3[illegible] and the unsaturated CHS-Polyester 104 resin with 2% methyl-ethyl ketone peroxide and 1% of a 10% solution of cobalt naphthenate in toluene. Tests showed that the E and G moduli are, for all practical purposes, independent of the total thickness of the material; they are sensitive, however, to the thickness of a single elementary layer, i.e., to the glass content

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ACCESSION NR: AP5016837

within the plastics. The results are in good agreement with theoretical approximate equations; the systematic deviation indicates that the Beer equation (F. Beer, VDI Ztschr., 1959, 101, 463) neglected the wave-like packing of the fibers and assumed an ideal connection between the resin and glass. The dynamic moduli are, as a rule, larger (in absolute terms) than the corresponding static quantities and the difference increases with the temperature. Orig. art. has: 10 formulas, 2 figures, and 3 tables.

ASSOCIATION: None

SUBMITTED: 10Nov64 ENCL: 00 SUB CODE: MT

NO REF SOV: 002 OTHER: 003

Card 2/2

ZVONKOVA, Z.V.; RODIONOV, A.N.; POVET'YEVA, Z.P.

Role of hydrogen bonding in the structures of crystalline hydrates of compound thiocyanates of metals. Kristallografiia 8 no.2:275-277 Mr-Ap '63. (MIRA 17:8)

1. Fiziko-khimicheskiy institut imeni Karpova.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

ZVONICEK, Jan, doc. inz. dr.

Basic processes of food industry technology. Prum potravin 16 no.1:Suppl:no.1:1-8 '65.

STOLBA, F., inz.; ZVONICEK, F.

Experiences in taking winter precautions in waterworks. Vod hosp 15 no.1:6-9 '65.

1. Prazske vodarny, Prague.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1

ACC NR: AP6029031 SOURCE CODE: UR/0413/66/000/014/0042/0042

INVENTORS: Klimov, V. V.; Androyov, A. Ya.; Nakhodnova, A. P.; Kozachenko, V. N.; Akhkozov, Ye. A.; Ivanov, D. G.; Didkovskaya, O. S.; Zvonik, V. A.

ORG: none

TITLE: A method for obtaining a piezoceramic material. Class 21, No. 183812 [announced by Donets Branch of All-Union Scientific Research Institute of Chemical Reagents and of High Purity Chemicals (Donetskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 42

TOPIC TAGS: piezoelectric ceramic, barium compound, lead compound, calcium compound, titanium compound, sintered alloy

ABSTRACT: This Author Certificate presents a method for obtaining a piezoceramic material from a mixture of barium, lead, calcium, and titanium compounds by sintering this mixture. To lower the temperature of sintering this material, the above compounds are used in the form of nitric acid solutions of barium, lead, calcium, and titanium. This solution is atomized in a stream of air at the temperature of 400—500C. After this, the powder is sintered at the temperature of 800—1000C.

SUB CODE: 11/ SUBM DATE: 21May64

Card 1/1 UDC: 621.315.612:537.226.33

ZVONIMIR, Duric

"Some information about the prices of construction of hydro electric stations in the Brbas - Pliva system"

SO: ELEKTROPRIVREDA, May - June 1955

L 40046-66 EWT(m)/EWP(t)/ETI IJP(c) WW/JD

ACC NR: AP6029824 SOURCE CODE: UR/0363/66/002/008/1483/1486

53
52
B

AUTHOR: Klimov, V. V.; Kozachenko, V. N.; Didkovskaya, O. S.; Zvonik, V. A.; Kisel', T. P.; Andreyev, A. Ya.

ORG: All-Union Scientific Research Institute of Chemical Reagents and High-Purity Substances, Donets Branch (Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chislykh veshchestv, Donetskiy filial)

TITLE: Preparation of piezo- and ferroelectric ceramics using spray dried solutions

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 8, 1966, 1483-1486

TOPIC TAGS: peizoelectric ceramic, ferroelectric material, ceramic technology, ceramic product property, barium titanate, titanate, lead, calcium

ABSTRACT: A preparative method was described for piezo- and ferroelectric ceramic materials on the base of triple titanate of barium, lead, and calcium. The method was designed to replace the conventional ceramic sintering technique in view of its substantial disadvantages. The first step of the described method consisted of preparation of the finely dispersed (particle size 6—8 μ) powder of the basic barium, lead, and calcium nitrates by spray drying of their aqueous solutions following a technique invented by the authors [Author Certificate no. 901979-29-14, 21.05.1964]. The powdered nitrates were then converted into titanates of varied

Card 1/2

UDC: 666.3:537.226.33+666.3:537.228.1

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710018-1"

L 43010-66

ACC NR: AP6029824

composition by firing the nitrate powder at 900—1000C at which temperature formation of the solid solutions with perovskite structure is completed. The particle size of titanates after firing was about 1 μ. High-purity powders may be obtained from adequately pure starting materials. The sintering of these powders into ceramic products occurs at a temperature in the 1230—1280C range, which is 100—150C lower than the temperature range of sintering the powders produced by conventional ceramic technique. The electrophysical properties of the ceramic products obtained by spray drying were shown to be superior to those of the products of ceramic technology. Notably, the piezoelectric modulus (d_{31}) was comparatively higher and, in certain samples, constant in the -60 to +80C range. Universality of the method described was stressed, insofar as it may be applied to most of the ferro- and piezoelectric ceramics presently used. Orig. art. has: 4 figures and 2 tables. [JK]

SUB CODE: 11/ SUBM DATE: 220ct65/ ORIG REF: 001/ ATD Press 5065

Card 2/2 10

ZVONIMIR GALL

"A biological Method of investigation of Insectioides in Vitro". Zvonimir Gall & Isak Levi Vets. at Vet. Inst. of Republic of Bosnia-Hercegovina, Sarajavo.

SOURCE: Vet., SVEZAK 4, p. 667, 1953

BULACH, M.M.; Kand. geol.-mineral. nauk;
ROMM, Ye.S.; GORYUNOV, I.I.; GMID, L.P.; GROMOV, V.K.;
DOROFEYEVA, T.V.; KNORING, L.D.; KALACHEVA, V.M.; TATARINOV,
I.V.; KLEYNOSOV, Yu.F.; KAPLAN, M.Ye.; ZVONITSKAYA, I.V.;
MAZURKEVICH, Z.I.; DRRYABINA, N.N.; RUSAKOVA, L.Ya., vedushchiy
red.; BARANOVA, L.G., tekhn. red.

[Methodological text on the study of the fracturing of rocks
and fractured oil and gas reservoirs]. Metodicheskoe posobie
po izucheniiu treshchinovatosti gornykh porod i treshchinnykh
kollektorov nefti i gaza. Leningrad, Gostoptekhizdat, 1962.
76 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'-
skii geologorazvedochnyi institut. Trudy, no.201).
(MIRA 16:4)

(Joints(Geology)) (Oil sands)

FRUGTSHAIM, M.F., ZVONITSKAIA, T.M.

Hypertonia in scarlet fever in children. Sovet.med. no.3:9-10 Mr '50. (CLML 19:2)

1. Of the Department of Children's Diseases, First Moscow Order of Lenin Medical Institute (Director of Department -- Prof. V.I.Molchanov).

S/123/61/000/014/015/045
A004/A101

AUTHORS: Zvonitskiy, A. Yu.; Belosel'skiy, N. V.

TITLE: The practice of developing and introducing the gang technology.

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 14, 1961, 2, abstract 14B8. (V sb. "Gruppovaya tekhnol. v mashinostr. i priborostr." Moscow - Leningrad, Mashgiz, 1960, 323-339)

TEXT: The introduction of the gang method was started with automatic and turret-lathe operations. For these purposes small-size pneumatic units with a clamping stress of 500 kg were utilized which made it possible to fasten in one fixture 3-4 parts simultaneously. The authors describe: a four-position gang fixture for the milling of slots, grooves and flats, a 72-position gang setting of a lapping automatic, indexing draw-in attachment, semi-automatic gang milling fixture for the processing of horned nuts, for-spindle drilling head with adjustable inter-center distances, gang jigs with automatic fastening and ejection of parts, fixture for the mandrel-less winding of cylindrical springs increasing the productivity by a factor of 10-15. The authors present examples of gang

S/123/61/000/014/015/045
A004/A101

The practice of developing and introducing the ...

machining on centerless grinding and thread-rolling machines, as well as on cold-upsetting automatics. There are 16 figures.

I. Briskman

[Abstracter's note: Complete translation]

Card 2/2

PHASE I BOOK EXPLOITATION SOV/3998

Zvonitskiy, Aleksandr Yulianovich, Engineer

Opyt gruppovoy obrabotki detaley na revol'vernykh stankakh (The Practice of Group Machining of Parts on Turret Lathes) Leningrad, 1959. 23 p. (Series: Leningrad. Dom nauchno-tekhnicheskoy propagandy. Obmen peredovym opytom. Seriya: Mekhanicheskaya obrabotka metallov, vyp. 10) 6,500 copies printed.

Sponsoring Agencies: Leningrad. Dom nauchno-tekhnicheskoy propagandy, and Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Ed.: I.I. Verzhbinskaya, Engineer; Tech. Ed.: V.L. Gvirts.

PURPOSE: This booklet is intended for production engineers and technicians in machine-building plants.

COVERAGE: The booklet deals with group machining of parts on turret lathes. Two basic groups of turret lathes are discussed: 1) the 1336M turret lathe of the Kiyevskiy zavod (Kiyev Plant) and the "Skoda-36" with 36-mm spindle holes, and 2) turret lathes of the "Boley-type", such as "Boley", "Leynen," and "Wolman".

Card 1/2

with 10- and 20-mm spindle holes. The author states that the adoption of group machining of parts on turret lathes results in considerable economy of machining time and the number of special fixtures and cutting tools required. The method of group machining is explained by means of classification diagrams, operation instruction sheets, and classification guiding sheets. The material presented is said to be limited in scope, as it is based on practices and methods developed in only one plant. No personalities are mentioned. There are 3 references, all Soviet.

TABLE OF CONTENTS: None given.

AVAILABLE: Library of Congress

VK/pw/gmp
7-27-60

GAFT, Ya.M., kand.med.nauk; Prinimali uchastiye: BRANZBURG, N.A., vrach; GOL'TS, I.P., vrach; GORELIK, Ye.S., vrach; ZVONKINA, O.M., vrach; LIVSHITS, R.I., vrach; LUR'YE, Ye.L., vrach; OZHE, N.B., vrach; RYBAL'SKAYA, V.G., vrach; CHELNOKOVA, A.K., vrach; YAVORSKIY, A.V., vrach

Dynamics of the tuberculous process in patients transferred to the third group of dispensary registration. Probl. tub. 38 no.3:3-8 '60. (MIRA 14:5)

1. Iz protivotuberkuleznogo dispansera No.4 Moskvy (glavnyy vrach - zasluzhennyy vrach RSFSR S.M.Zamukhovskiy).
(TUBERCULOSIS)

BUTOMO, D.G.; VAYZHLYA, N.M.; ZVONKINA, V.F.; KOSHURIN, A.V.; SERGEYEV, L.N.; FRUMKINA, Yu.A.

Concerning the "Handbook on the processing of nonferrous metals and alloys" TSvet.met. 35 no.12:60 D '62. (MIRA 16:2)

1. Sovet Nauchno-tekhnicheskogo obshchestva zavoda "Krasnyy Vyborzhets".

(Nonferrous metals)

ZVONKO, Lukacevic

A new method for electric-arc welding in CO_2. UM. Zavarivanje 5 no.11/12:260-266 D '62.

KOS'KOV, B.I.; MUKHIN, N.S.; SMIRNOV, A.A., kand. tekhn. nauk; NIKITIN, V.I., prepodavatel'; KONDRAT'YEVA, N.Ya., kand. tekhn. nauk, prepodavatel'; LOSEV, K.A., dotsent; ZVONKOV, A.P.; KOMAROVSKIY, V.M.; MARCHENKO, S.N., kand. tekhn. nauk

Discussion of an article by B.I. Gerzhuly. Geod. i kart. no.4:28-36 Ap '64. (MIRA 17:8)

1. Nachal'nik tekhnicheskogo otdela Moskovskogo gorodskogo tresta geologo-geodezicheskikh i kartograficheskikh rabot (for Kos'kov). 2. Nachal'nik kompleksnogo otdela Moskovskogo otdeleniya TSentral'nogo tresta inzhenerno-stroitel'nykh izyskaniy (for Mukhin). 3. Nachal'nik geodezicheskoy sluzhby pri Upravleni glavnogo arkhitektora Voronezha (for Smirnov) 4. Kafedra geodezii Khabarovskogo politekhnicheskogo instituta (for Nitkin). 5. Kafedra kartografii Leningradskogo gosudarstvennogo universiteta (for Kondrat'yeva). 6. Kuybyshevskiy inzherno-stroitel'nyy institut (for Losev). 7. Rukovoditel' sektora Nauchno issledovatel'skogo institut gradostroitel'stva Kiyev (for Marchenko).

ACCESSION NR: AP4041736 S/0181/64/006/007/2198/2200

AUTHORS: Girayev, M. A.; Karpovich, I. A.; Zvonkov, B. N.

TITLE: Frequency dependence of the field effect in photosensitive films of CdS

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2198-2200

TOPIC TAGS: thin film, cadmium sulfide, photoconductivity, frequency dependence, carrier mobility, photosensitivity

ABSTRACT: The investigation was undertaken in view of recent interest in such films, brought about by the development of field-effect transistors on their basis (P. K. Weimer, Proc. IRE v. 50, 1526, 1962). The films were prepared on glass substrates by evaporation in vacuum, and activated by heat treatment with air in a photoconductor powder. The frequency dependence was investigated by the method of Aigrain et al. (J. Phys. Rad. v. 13, 587, 1952). Constant

illumination was used to reduce the layer resistance and to make the method usable at high temperatures. The effective carrier mobility was found to be practically independent of the temperature but highly dependent on the intensity of illumination. For unactivated CdS layers with increased dark conductivity and weak photosensitivity, the effective mobility did not exceed 1 $cm^2/V\text{-}sec$ and was practically constant up to 20 kcs. The appreciable change in the effective mobility of photosensitive layers occurs in the same frequency interval in which the photocurrent changes strongly as a frequency of the light modulation frequency and is apparently connected with relaxation of the photoconductivity. The decrease in mobility beyond about 20 kcs may be due to disturbance of the equilibrium of the induced carriers with rapid surface states. A somewhat unexpected effect is that in polycrystalline CdS films the effective mobility at high frequencies may become comparable with that for CdS single crystals. This is confirmed by Hall-effect measurements, which will be reported elsewhere. "The authors thank S. Abdiyev

ACCESSION NR: AP4041736

for preparing the samples for the investigation." Orig. art. has: 2 figures.

ASSOCIATION: Gor'kovskiy gosudarstvenny*y universitet (Gorkiy State University)

SUBMITTED: 22Feb64 ENCL: 02

SUB CODE: SS, EC NR REF SOV: 002 OTHER: 004

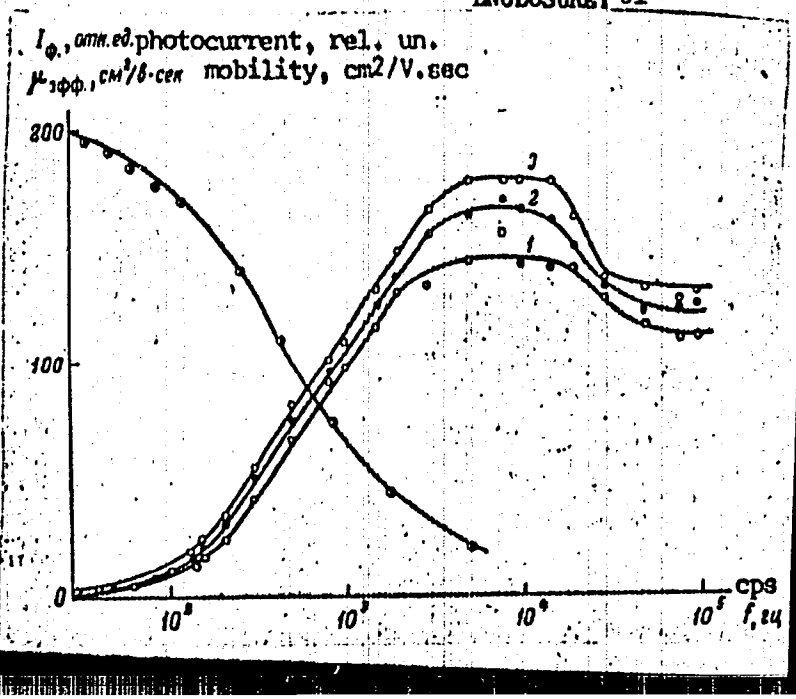
ACCESSION NR: AP4041736

ENCLOSURE: 01

Frequency dependence of effective carrier mobility in CdS film (sample 1) under constant illumination

T, °C: 1 - 25, 2 - 58, 3 - 88;

4 - photocurrent vs. light modulation frequency at 25C



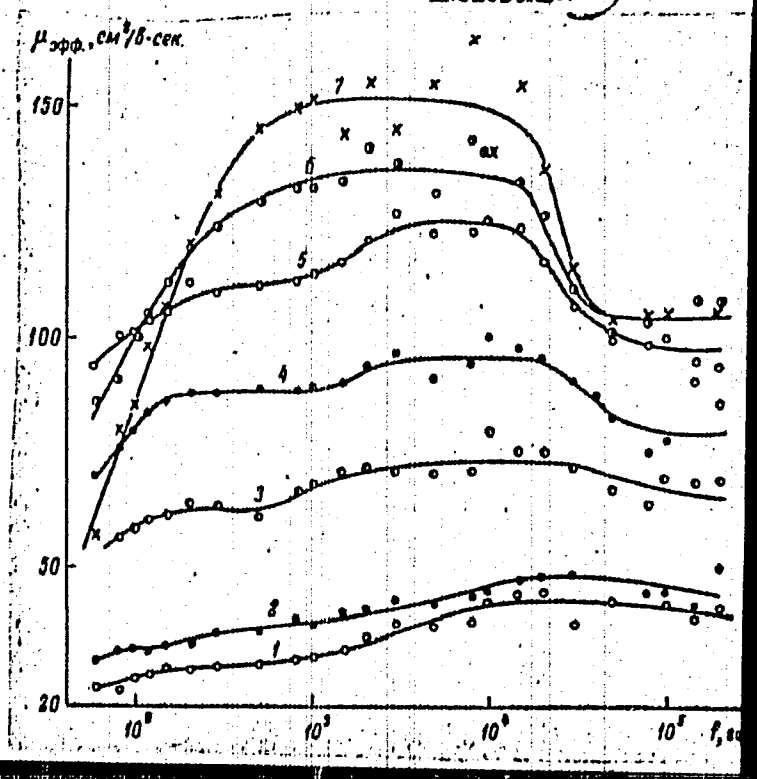
Card 4/5

ACCESSION NR: AP4041736

ENCLOSURE: 02

Frequency dependence of effective carrier mobility in CdS film (sample 2) under different illuminations

Film resistance under illumination, kilohm: 1 - 1000, 2 - 600, 3 - 300, 4 - 100, 5 - 40, 6 - 20, 7 - 10.



Card 5/5

RASKIN, D.M.; ZVONKOV, M.E.

Automatic welding of aluminum with a melting electrode. Avtom.svar. 9 no.1:21-28 Ja-F '56. (MIRA 9:6)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O.Patona AN USSR.
(Aluminum--Welding) (Electric welding)

RABKIN, D.M.; ZVONKOV, M.L.; VERCHENKO, V.A.

Making welded aluminum-magnesium alloy containers. Avtom. svar. 11 no.4:84-91 Ap '58. (MIRA 11:6)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR (for Rabkin, Zvonkov). 2. Trest po montazu prodovol'stvennykh predpriyatii (for Verchenko).
(Aluminum-magnesium alloy--Welding)
(Tanks--Welding)

RABKIN, D.M.; ZVONKOV, M.L.

Automatic welding of aluminum using twin electrodes. Avtom. svar. 11 no.5:25-31 My '58. (MIRA 11:6)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.

(Aluminum--Welding) (Electrodes)

AUTHORS: Rabkin, D.M., Candidate of Technical Sciences, Zvonkov, M.L. and Verchenko, V.A., Engineers

TITLE: Experience in Constructing Welded Aluminum-Magnesium Containers (Opyt izgotovleniya svarnykh yemkostey iz aluminiyevogo-magniyevogo splava)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 4, pp 84-88 (USSR)

ABSTRACT: A detailed description is given of all operations performed in assembling 700 m^3 aluminum-magnesium alloy containers at the Kombinat sinteticheskikh zhirozameniteley (Synthetic Fat Substitutes Combine). The electric arc welding method is used for all horizontal connections, and oxy-gas (propane-butane mixture) for the vertical welds which are welded by two operators simultaneously - one on the inside and one on the outside of the container, so that the operation proceeds with only one welding puddle. The information includes the chemical composition of the base metal - "AMg5B" alloy - and special "AN-A103" electrode coating and "AN-A201" flux developed for the purpose at the Electric Welding Institute imeni Paton (Tables 1, 2). The following persons participated in the work:

125-58-4-12/15

Experience in Constructing Welded Aluminum-Magnesium Containers

G.B. Al'terman, I.M. Bolotin, V.M. Pauler, L.D. Polonskiy, O.A. Videnskiy, P.K. Chubukov, I.I. Kravtsov, Ya.M. Yalovoy.

There are 3 tables and 7 photographs.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (Electric Welding Institute imeni Ye.O. Paton of the AS UkrSSR); Prodmontazh.

SUBMITTED: December 3, 1957

AVAILABLE: Library of Congress

Card 2/2

ZVONKOV. M.L.

AUTHORS: Rabkin, D.M., and Zvonkov, M.L. 125-58-5-4/13

TITLE: Automatic Welding of Aluminum by a Split Electrode (Avtomaticheskaya svarka alyuminiya rasshcheplennym elektrodom)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 5, pp 25-31 (USSR)

ABSTRACT: The peculiarities and application of the split-electrode method of welding were given previously [Ref. 2,3 and 4]. The method consists of the use of two electrodes moving parallel to one another and producing two puddles which merge when the distance between the electrodes diminishes. The merged-puddle is wider and shallower than the puddle produced by a single arc. The method is schematically illustrated (Fig. 1) and calculations of the fusion depth as a function of the distance between electrodes are made. The method permits welding butt-joints without the use of a steel support. The welds are dense, wide, with good mechanical properties. Regular welding equipment needs only minor adjustment when applying the split-electrode method: a special pulling-type holder (Fig. 5) with two pairs of guide pipes, and an additional bobbin for electrode wire. The method has been successfully introduced at the Kiyev plant

Automatic Welding of Aluminum by a Split Electrode

"Bol'shevik" where it is used for welding aluminum vessels (the technology is briefly described in figure 6 and 7). The following advantages resulted: consumption of electrode wire has been reduced by 40%, and electric energy by 20%. Work efficiency has increased three times as compared with manual arc welding. The following engineers of the "Bol'shevik" plant took part in developing the split-electrode welding technology: I.M. Mirgorodskiy, F.S. Bugriy, V.M. Ponomar', I.M. Savich, V.M. Grishchenko.
There are 7 figures and 5 Soviet references.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (Electric Welding Institute imeni Ye.O. Paton of the AS UkrSSR)

SUBMITTED: January 9, 1958

AVAILABLE: Library of Congress

PHASE I BOOK EXPLOITATION SOV/5078

Akademiya nauk URSR, Kiyev. Instytut elektrozvaryuvannya

Vnedreniye novykh sposobov svarki v promyshlennost'; sbornik statey, vyp. 3. (Introduction of New Welding Methods in Industry; Collection of Articles. v. 3) Kiyev, Gos. izd-vo tekhn. lit-ry UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni akademika Ye. O. Patona Akademii nauk Ukrainskoy SSR.

Ed.: M. Pisarenko; Tech. Ed.: S. Matusevich.

PURPOSE: This collection of articles is intended for personnel in the welding industry.

COVERAGE: The articles deal with the combined experiences of the Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton) and several industrial enterprises in solving scientific and engineering problems in welding technology. Problems in the application of new methods of mechanized welding and electroslag welding in industry are discussed. This is the third collection of articles published under the same title. The Foreword was written by B. Ye. Paton, Academician of the Academy of Sciences Ukrainian SSR and Lenin prize winner. There are no references.

TABLE OF CONTENTS:

(16)

PERIODICAL ABSTRACTS

Sub.: USSR/Engineering AID 4191 - P

RABKIN, D. M. and M. L. ZVONKOV

VOPROSY TEKHNOLOGII AVTOMATICHESKOY SVARKI ALYUMINIYA PLAVYASHCHIMSYA ELEKTRODOM (Technical problems in Automatic Welding of Aluminum with Melting Electrodes). Avtomaticheskaya svarka, no. 1, Ja/F 1956: 21-29.

The technique and equipment used in automatic welding of aluminum with semi-open melting electrodes are discussed: amount of current required, thickness of electrode-wire used and determination of the electrode feeding speed and most favorable voltage. The selection of the proper welding speed and the exact quantity of flux used to get the best quality of welded seam with consideration of the thickness of the metal to be welded, and a description of a spout mechanism for feeding electrode wire, as well as of a measuring hopper for spreading flux, are presented. One table, 3 graphs and 7 macropictures. Four Russian references, 1953-1955.