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L 26638-66 EWT(1)/T/EWA(h) IJP(c) AT

ACC NR: AP5025362 SOURCE CODE: UR/0181/65/007/010/2902/2906

AUTHOR: Kopayev, Yu. V.

ORG: None

TITLE: Calculation of Coulomb interaction of electrons and holes in contact with degenerated n- and p-type semiconductors

SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 2902-2906

TOPIC TAGS: electron hole, Coulomb interaction, semiconducting material, excitation spectrum, pair production, crystal structure
ABSTRACT: The model of an isotropic semi-metal at a low temperature was unstable in relation to the formation of pairs from electrons in one zone with the holes in another, taking into account their Coulomb interaction. It has been shown that the contact area of degenerated n- and p-type semiconductors possess a similar feature, i.e., in the electron excitation spectrum in degenerated n- and p-type semiconductors, a hole develops which exponentially decreases upon removal from the contact surface. Upon contact of degenerated n- and p-type semiconductors, instability, due to Coulomb interaction of electrons and holes with sides opposite from the contact, developed in the ground state in relation to electron

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L 21233-66 EWT(d)/EWT(1)/EPF(n)-2 IJP(c) WW/GG ACC NR: AP6003791 SOURCE CODE: UP/019

SOURCE CODE: UR/0181/66/008/001/0223/0230

AUTHOR: Kopayev, Yu. V.

ORG: none

TITLE: On the phase transition from a semimetal to a dielectric

SOURCE: Fizika tverdogo tela, v. 8, no. 1, 1966, 223-230

TOPIC TAGS: semiconductor theory, valence band, conduction band, phase transition, excited state, anisotropic medium

ABSTRACT: It is shown that in the case of a semimetal for which the extremal points of both the valence and the conduction band coincide in momentum space, but whose effective masses are different, the temperature of the transition from the semimetal to the dielectric is determined not by the magnitude of the gap on the Fermi surface, but by the minimum distance between the branch of the positive and negative excitations. This distance can be much smaller than the gap if the difference between the effective masses of the two bands of the semimetal is large. This minimum distance determines all the thermo-

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L 21233-66 ACC NR: AP6003791

dynamic properties of the system in the dielectric phase. Near the Curie point, the gap tends to zero in a manner similar to that in a semiconductor. A study of a semimetal with weak anisotropy, using a model in which one of the Fermi surfaces is a sphere with scalar mass m, and the other surface is an ellipsoid of revolution with the longitudinal mass coinciding with m and a transverse mass different little from m, shows that the gap decreases with increasing anisotropy energy, and vanishes when the anisotropy energy becomes equal to the gap for the isotropic semimetal. At large anisotropy the state of the semimetal is stable down to absolute zero. The influence of the anisotropy becomes weaker when account is taken of the scattering of the carriers by a non-paramagnetic non-ionized impurity. In the case of an ionized impurity, the effect vanishes because the concentrations of the interacting carriers in both bands are no longer equal. The author is grateful to L. V. Keldysh for a discussion of the results. Orig. art. has: 47 formulas.

SUB CODE: 20/ SUBM DATE: 07Ju165/ ORIG REF: 004/ OTH REF: 001

Card 2/2dd

KOPAYEVA, T.

Our Spartakiada. Voen. znan. 40 no.8:32-33 Ag 164.

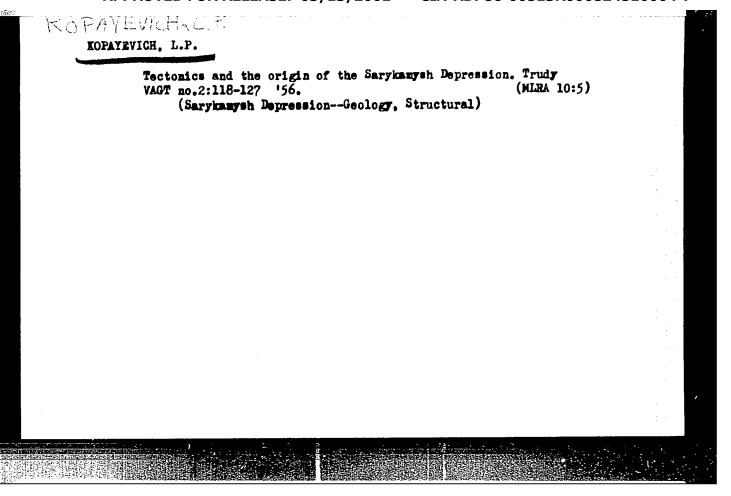
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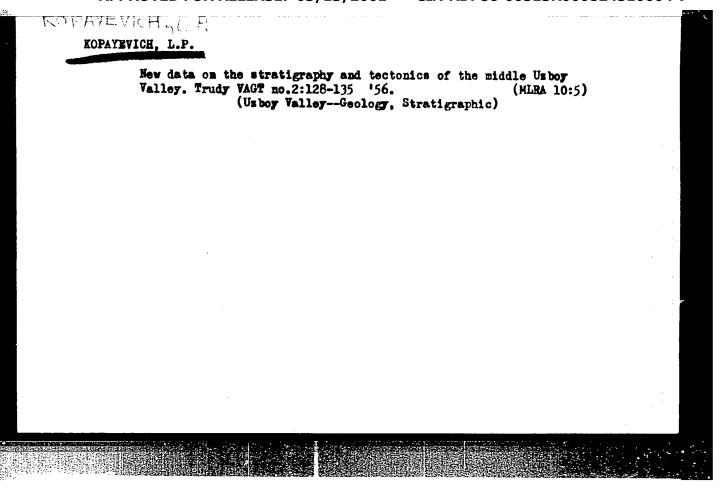
1. Predsedatel' komiteta pervichnoy organizatsii Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu metallurgicheskogo kombinata imeni V.I. Lenina.

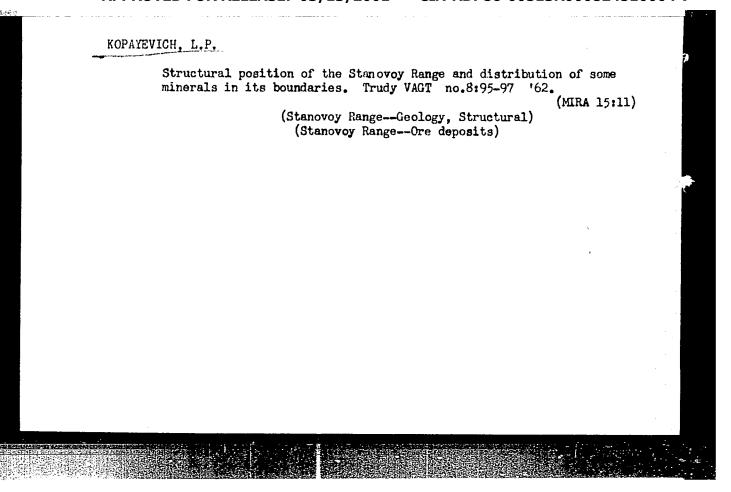
KOPAYEVA, T.

Parachute canopies in the Tagil sky. Kryl. rod. 15 no.9:4-6 S '64. (MIRA 18:1)

l. Predsedatel' komiteta Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Metallurgicheskogo kombinata, Nizhniy Tagil, Sverdlovskoy oblasti.







KOPAYEVICH, L.P.

New data on the stratigraphy of the basement and upper part of the Archean cross section in the southern margin of the Aldan-Shield. Geol. 1 geofis. no.6:117-119 164. (MIRA 18:11)

1. Vsesoyuszyy zerogeologicheskiy trest, Moskva.

KOPAYEVICH, L.P.; KAZMIN, Yu.B.

Tectonics of the Stanovoy Range. Geol.i geofiz. no.1:37-46 *63.
(MIRA 16:4)

1. Vaesoyuznyy aerogeologicheskiy trest, Moskva.
(Stanovoy Range—Geology, Structural)

NEYELOV, A.N.; GLEBOVITSKIY, V.A.; KATS, A.G.; KOPAYEVICH, L.V.; SEDOVA, I.S.

Southwestern boundary and age of the Aldan Shield. Geol. i geofix. no.ll: 52-59 '62. (NIRA 16:3)

1. Laboratoriya geologii dokembriya AN SSSR, Leningrad. (Aldan Plateau—Geology)

Kupayacken Ke, 4,21. PHASE I BOOK EXPLOITATION

342

Mitsengendler, Iosif Solomonovich

Stendovaya obrabotka krupnykh detaley; iz opyta Uralmashzavoda (Machining of Large Parts on a Platform; Experience of the Ural Machine Plant) Moscow, Mashgiz, 1956. 41 p. 3,000 copies printed (Obmen tekhnicheskim opytom).

Reviewers: Kopaygorenko, V.M., Engineer, and Bakulin, M.V., Engineer;

Tech. Ed: Duzina, N.A.

This booklet is intended for engineering and technical PURPOSE:

personnel of machine-building plants.

The author describes a progressive method of machining large parts. The method employed at the Ural Machine-COVERAGE:

Building Plant is based on the use of machine tools assembled from standardized components and technological processes of serial production. The machined part is a steel casting of a rolling-mill frame weighing 78 metric tons, with dimensions of 23.4 ft x 11.6 ft x 6.2 ft.

Application of the new methods results in completion of the Card 1/2

> JAG/MTL May 29,1958

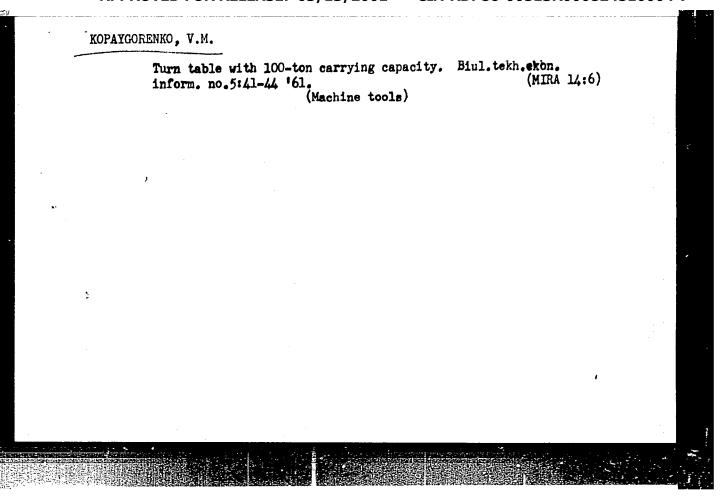
CIA-RDP86-00513R000824510004-7 **APPROVED FOR RELEASE: 03/13/2001**

BAKULIN, Mikhail Venediktevich; KOPATGORANKO, Vasiliy Makarevich; SHABASHOV, S.P., kandidat tekhnicheskiyin nauk, retwenient; DUGIM, B.A., tekhnicheskiy redaktor.

[Planning the application of new techniques to every machine teel; according to the practices of the Ural machinery plant | Plantrovanie vnedreniia novoi tekhniki na kashden stanke; po opytu Uralmashsaveda, Meskva, Gos.nauchno-tekhn,isd-ve mashinestroit.lit-ry, 1956. 42 p.

(Machine toels)

(Machine toels)



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AID P - 4303

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 3/26

Authors : Bakulin, M. V. and V. M. Kopaygorenko

Title : Examples of adjusting the design of construction details

to a technologically-resonable machining.

Periodical : Vest. mash. $\frac{36}{10}$ #3, p. 17-19, Mr 1956

Abstract : The authors give numerous examples from the shops of

the Ural Machine Plant (Uralmash-zavod) showing how relatively small changes in the design of machine details can make a great time- and money-saving

difference in their machining. Diagrams.

Institution: None

Submitted : No date

21895 S/193/61/000/005/005/006 A004/A104

1,1100

AUTHOR:

Kopaygorenko, V. M.

TITLE:

Turntable of 100 tons load capacity

PERIODICAL: Byulleten tekhniko-ekonomicheskoy informatsii, no. 5, 1961, 41-44

TEXT: To facilitate setting and adjusting of large-size parts for machining on boring machines the Uralmashzavod Plant, on the suggestion of the head of the Large Unit Mechanical Shop, I. S. Mitsengendler, has developed and fabricated turntables of 100 tons load capacity. The lower part of the turntable is positioned perpendicular to the machine bed and mounted on 24 adjustable shoes fixed to the plate by bolts. The table is adjusted with the aid of supports and fixed to the plate by 12 bolts. The middle part of the table travels on the four bedways of the lower part. Rapid travel is provided for the rough adjusting of ways of the lower part. Rapid travel is provided for the rough adjusting of parts, slow travel for advancing the part to the tools. Accurate adjustment of the part is effected by push buttons. The turntable is driven by the main electromotro via the gear box. Longitudinal displacement is effected by a lead screw with nut, rotation by a pair of cylindrical gears and a worm pair. The setting of the table at a definite angle is carried out by a graduated disk,

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CIA-RDP86-00513R000824510004-7

21895

Turntable of 100 tons load capacity

3/193/61/000/005/005/006 A004/A104

electromotor - 28 kw; hydraulically adjustable relief of the swivelling part of the turntable - from 0 to 90 tons; operating pressure in the hydraulic system - 60 kg/cm². If parts of smaller dimensions are machined it is possible to adjust on the turntable simultaneously several parts. The author states that the utilization of turntables with big load capacities makes it possible to increase the utilization coefficient of boring machines by 20% concerning machine time, to raise the utilization coefficient of the machine capacity by increasing the cutting conditions since the parts can be machined with a reduced spindle boom, and to increase the labor productivity by 25-35% by the reduction in setting and adjusting time of the part. There is 1 figure and 1 table.

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Card 3/3

BLINOVA, V.M.; DENIDOV, A.A.; KOLIN, Ya.S.; MAKUSHKIN, Ya.G.; MYZIN. L.M.;
PERMYAKOV, N.P.; POMEDILKO, A.T.; BOROVIK, Z.G.; YEFREMOV, I.A.;
KORAYGORODSKIY, A.B.; MARINOV, A.M.; NEKHOHOSHKOVA, O.I.; POKROVSKIY,
A.F.; ROHANOVSKIY, A.A.; RASSADNIKOV, Ye.I., red.; SAVELYEV, V.I.,
red.; FRIDKIN, A.M., tekhn.red.

[Electric power in the Uxals during the past 40 years] Energetika
Urala za 40 let. Moskva, Gos. energ. izd-vo, 1958. 141 p.

(Ural Mountain region--Electric power)

(Ural Mountain region--Electric power)

AUTHOR: Kopaygorodskiy, Ye. M.

807/ 50-58-7-9/20

TITLE:

Results Obtained by Analyses of the Current Structure in the District of Apsheron in the Caspian Sea (Rezul'taty analiza struktury techeniy v Apsheronskom rayone Kaspiyskogo morya)

PERIODICAL:

Meteorologiya i gidrologiya, 1958, Nr 7, pp.39-41 (USSR)

ABSTRACT:

The author investigated the results obtained by measurements of the current velocity by means of a marine anemometer and an anemograph by Alekseyev. By means of these apparatus the current velocities were recorded in the district of Apsheron of the Caspian Sea in different horizons, at points with a depth of from 10 - 50 m. The analysis of the main part of the observations made under different weather conditions showed that the current velocities are very different with respect to time. In individual cases it changes several times within 5 minutes. Thus the results of a single observation are to a considerable extent chance results. The amplitudes of the fluctuation were calculated for evaluating the possible short-time deviations from the average value. 1680 measurements were taken into account for this purpose. The fluctuation

Card 1/3

Results Obtained by Analyses of the Current Structure in the District of Apsheron in the Caspian Sea

coefficient was obtained from the equation K = v/v The influence of the depth and of the horizon on the current fluctuations is the object of special investigations. In meneral the dependence of the stability of the current on the average velocity of the current is obvious. With the increase of the average velocity the current becomes more stable and fluctuations are reduced. However, the quantities measured by means of the hydrometer may deviate as well from the average value in the case of a considerable velocity of the current. It must be emphasized that a reduction of the fluctuation coefficient can be observed also in marine regions with greater depth. Creater fluctuations were observed in littoral regions as well as on the open sea. On the strength of these data it is difficult for the hydrologist to gain a correct conception of the distribution of the currents in space and time. The author finally concludes that the method of measuring marine currents used at present is inadequate and must be re-formed. There is 1 figure.

Card 2/3

Card 3/3

Automatic stations on pile foundations. Trudy TSIP no.142:108-110 (MIRA 18:10)

KOPCA, J.

Propagating the state plan in the shops. p. 49. SKLAR A KERAMIK, Prague, Vol. 6, no. 3, Mar. 1956.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

KOPCA, Jozef

Prospects of the leather and shoe industry development. Kozarstvi 14 no.9:249-250 Ag '64.

1. Deputy Minister of Consumer Goods Industry, Prague.

RUMANIA

KOPCEV, I.; KOTEV, G.; MILEV, M.; KIFOV, R.; and IANKOV, B., [Affiliations not given], Peoples Republic of Bulgaria.

APPROVES TO RELEASE ...03/13/2001 CIA-RDP86-00513R000824510004-7

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 164-168

Abstract: Exhortatory introduction about the crimes of "American Imperialists and their Satelliter" in South Vietnam; report on studies on 20 dogs with experimental wounds infected with yperite (20 milligrams per kilogram) and 15 with Soman. The first aid in such cases is discussed in some detail.

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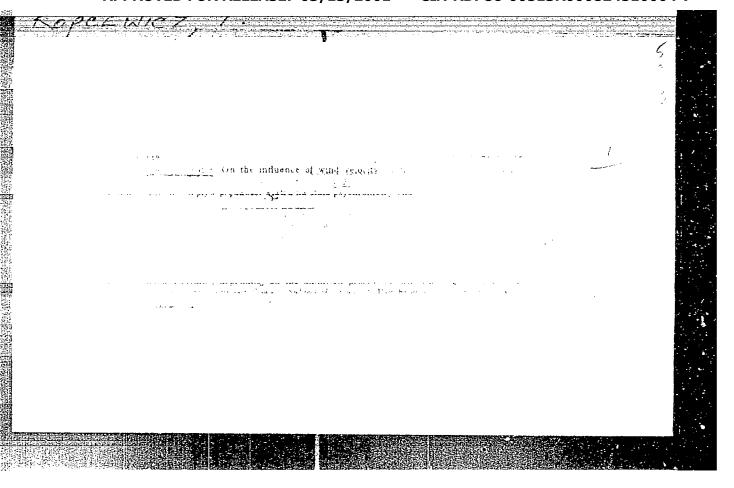
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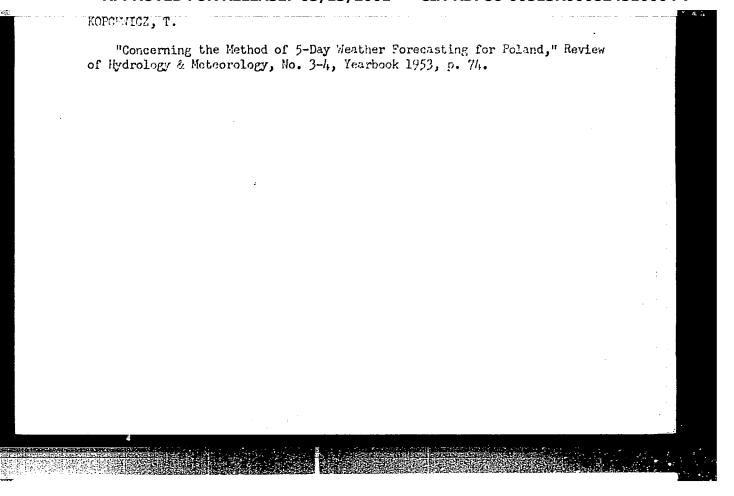
CIA-RDP86-00513R000824510004-7

CANAL CAR SERVICE STREET Mait. a Yelural P.T.A. KOPCEWICZ, T. 551 50/57 - 691 93 Ropecwicz T. Physics of the Atmosphere, Part 1 Acrology, Part 2 Aferentography Methods and Technique. "Flayka atmosfery" Cz. I. "Actologia", Cz. 2, "O metodach i technice pomlarów meteorologicznych". Warszawa, 1948, P. Tow. Geofiz. 65, pp. 495, 105 this Introductory definitions and conceptions. Thermo-hydrostatic compounds for dry and most air Vapour and products of its condensation in alm-scalere Principles of aerological someting and method of evaluation of results. Pundamental knowledge of thermolynames of the atmosphere, Radiation in the atmosphere Control and observation of surface canditions. Meteorographs and radiometer. regraphs and in the Lot calibrating them. The technique of a rological oundings. Measuring the wind force in upper regions,

KoftEdles, F. 4B-224 Meteorological 551.511:551.554 Kopcewicz, T. O wnlywie lepkosci turbulencyjnej powietrza Abst. Vol. 4 na pionowy rozklad wiatru w trciowej warstwie atmosfery Ziemi. No. 2 [Influence of eddy viscosity on the vertical distribution of Feb. 1953 wind in the frictional layer of the earth's atmosphere 7 Poland. Panstwowy Instytut Hydrologiczno-Meteorologiczny. Wiadomosci Bibliography on Sluzby Hydrologicznej i Meteorologicznej, 3(1):5-42, 1950. 6 figs., 6 tables, ecs. DWB--A highly theoretical paper in which some of the well-known theories (ERTEL, SIESER-MÖLLER, BRUNT, PRANDIL, ROSSBY, etc.) are summarized. The author discusses the equations Turbulent Exchange of motion, and investigates the movement of air in the frictional layer, comparing the theory with results of observations of wind direction and velocity as a function of altitude. Subject Headings: 1. Friction layer 2. Wind deviation 3. Ekman's

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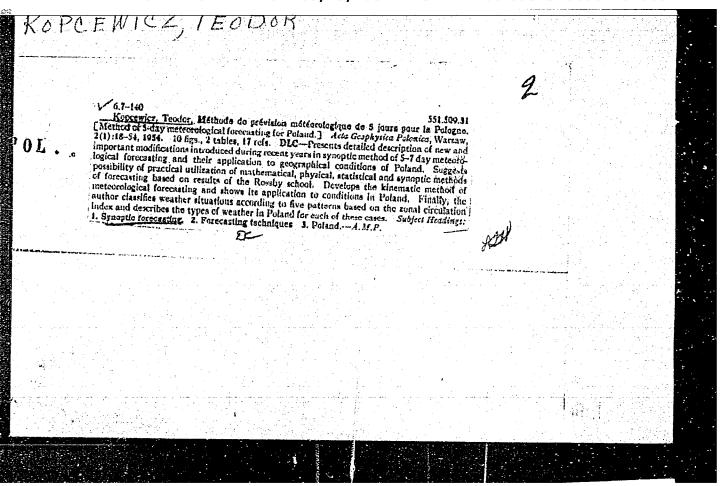


"Experimental confirmation of the theory of day and might changes (Sq) in terrestrial magnetism."
Postepy Fizyki, Warsaw, Vol 4, No 4, 1953, p. 490
SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

KOFCEMICZ, T.

Method of 5-day weather forecasting for Foland; a summary, p. 74. (FRZEGIAD METEOROLO-GICZNY I HYDROLOGICZNY, Warszawa, Vol. 6, no. 3/4, 1953.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jan. 1955, Uncl.



K(PCENICZ, T.

"A. B. Debrowolski's 50 Years of Scientific Activities", P. 115, (ACTA GEOPHYSICA POLONICA, Vol. 2, No. 3, 1954, Warsaw, Poland)

SO: Monthly List of East European Accessions (EFAL), LC, Vol. 4, No. 3, March 1955, Uncl.

CIA-RDP86-00513R000824510004-7" APPROVED FOR RELEASE: 03/13/2001

KOPCEWICZ, T.

Relation between the distribution of air temperature and the velocity of horizontal and stationary whirlwind. In French. p. 11. (Acta Geophysica Polonica, Vol. 5, no. 1, 1957. Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

POL/26-7-2-11/18

3(1),21(1,8)AUTHOR:

Kopcewicz, Teodor

TITLE:

Meteorological Problems Connected With the Development of Nuclear Research

PERIODICAL:

Acta geophysica polonica, 1959, Vol 7, Nr 2, pp 217-229

(POL)

ABSTRACT:

World wide progress in the field of nuclear research has led to the development of one of the most direct methods of observing the motion of the atmosphere on different scales. Depending on the quantity and the manner of introduction of the radioactive substances into the atmosphere and on their disintegration period one may consider the behaviour of the polluted space or area, its mean motion and size as a function of time, and also investigate the concentration of the pollution substances as a function of both vertical and horizontal atmospheric equilibrium. The size of the polluted space and also its height vary according to the power of the source. Hence, this makes it possible to study the various afcrementioned phenomena on

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POL/26-7-2-11/18

Meteorological Problems Connected With the Development of Nuclear Research

contaminating materials in the immediate vicinity of reactors: that in order to be able to assess rapidly the meteorological characteristics of the vicinity of a reactor, the findings of each nuclear establishment's meteorological station be correlated with the findings of local meteorological stations which carry out longrange observations: finally, that each nuclear establishment be equipped to receive full synoptic materia and that facilities be made available for the elaboration of local weather maps or for obtaining such maps with the help of facsimile apparatus. In the second part of the article, the author discusses certain large scale meteorological problems connected with atmospheric pollution resulting from nuclear explosions. The author gives Richardson's and Sutton's formulae for air contaminant concentration as a function of time and height in the atmosphere, for the distance of the point of maximum concentration from the source of contamination, for maximum concentration

Card 3/

1/026/62/010/004/001/001 D207/D308

AUTHOR:

Kopcewicz, Teodor

TITLE:

An attempt to explain temporary variations in ground air-layer pollution in Central Europe by radioactive

substances deriving from nuclear explosions

PERIODICAL:

Acta Geophysica Polonica, v. 10, no. 4, 1962,

299-334

An analysis is given of the results of ground-level radioactive pollution measurements carried out during the period October 1958-July 1959 at five Central European stations: Nol, Riso, Berlin, Vienna and Legionowo (Poland). Two types of radioactive pollution are distinguished: transient and long-term, the latter being defined as lasting at least several days. Assuming that pollution is due to radioactive dust which entered the warm troposphere from the cold stratosphere through gaps in the tropopause during non-tropical cyclones, meteorological conditions are given for the occurrence of transient and long-term pollution and two examples of

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CIA-RDP86-00513R000824510004-7" APPROVED FOR RELEASE: 03/13/2001

Influence of the metoorological conditions on the concentration of rad contive nerosol in ground airlayers. Przegl geofiz 9 no.1:3-24 164.

1. Department of Physics of the Atmospher, University, Warsaw.

POLAND

KOPCEWICZ, T.

Department of Physics of the Atmosphere, University of Warsaw (Katedra Fizyki Atmosfery, UW), Warsaw.

Warsaw, Acta Geophysica Polonica, No 2, April-June 1965, pp 75-84

"On a certain method for investigating the influence of meteorological constitution on the mean contamination of the air of the earth's surface with radioactive dusts."

KOPCHAK, M.N.

Unit for welding flanges. Suggested by M.N.Kopchak. Rats. i isobr. predl. v stroi. no.15:28-30 160. (MIRA 13:9)

1. Po materialam tresta Promtekhmontash-1 Slavyanskogo upravleniya No.7 Ukrglavprommontasha Ministerstva stroitel'stva USSR, g. Khar'kov. (Flanges) (Electric welding-- Equipment and supplies)

SOV/136-58-5-6/22 AUTHORS: Averchenkov, D.O., Vartanyan, A.M., Kopchenko, D.S.

TITIE:

Introduction of Electrothermy at the Ust'-Kamenogersk zinc Combine (Vnedreniye elektrotermii na Ust'-Kamenogorskom

svintsovo-tsinkovom kombinate)

Tsvetnyye Metally, 1958 1 Nr 5, pp 35 - 38 (USSR) PERIODICAL:

ABSTRACT: The authors discuss a recent article by V.N. Kostin in Tsvetnyye Metally, 1958, Nr 1, in which the greater application of electrothermic methods in lead and zinc production

is mentioned. They list some disadvantages of shaftfurnace smelting and state the importance of developing new methods for Soviet lead-smelting works, a favourable factor being the increasing availability of cheap hydroelectric power. Electric heating of settlers was substituted for oil heating at the Ust'-Kamenogorsk Lead-zinc Combine in 1953 without altering dimensions (length, width and depth - 7 100, 2 960 and 660 mm, respectively), but experience and joint work by works and VNIItsvetmet personnel led to reconstruction with the volume reduced

from 13 to 8 m³. After listing conditions for successful operation of such stationary settlers, the authors describe

SOV/136-58-5-6/22 Introduction of Electrothermy at the Ust'-Kamenogorsk Lead-zinc Combine

the smelting of silver-containing dross in an electric furnace under an artificial slag layer (30% Na₂0, 30% CaO, 40% SiO₂): tabulated compositions show that this method

gives a higher recovery of noble metals into the silverlead than with retort distillation. This work was also
carried out by the same organisations and the collaborator
is continuing to improve the method and to convert the
150-ton refining kettles to electric heating. The authors
outline the present electric kettle-heating method with
nichrome strip resistance heaters and urge the development
of induction heating for higher efficiency. They agree
with Kostin on the need for special design staffs in
existing institutes with proper equipment for the rapid
development of electrothermic methods. They do not agree
with his suggested scheme for converting the Ust'Kamenogorsk Lead Works to electric smelting as data are
lacking; they would prefer the Giprotsvetmet to design
a new, separate works. They urge the rapid completion

Card 2/3

SOV/136-59-1-9/24

AUTHORS: Averchenkov D.O., Kopehenko D.S., Pron'kin V.F.,

Sidorovskiy V.A., Kershanskiy I.I. and Ovcharenko V.P.

TITLE:

Introduction of an Electrothermic Method of Distilling Zinc from Silver Crust at the Ust'-Kamenogorskiy Lead Works (Vnedreniye elektrotermicheskogo sposoba distillyatsii tsinka iz serebristoy peny na Usti-Kamenogorskom svintsovom zavode)

PERIODICAL: Tsvetnyye Metally, 1959 Nr 1, pp 33-40 (USSR)

ABSTRACT: The authors point out that as continuous desilvering of lead is not used in the USSR, methods of crust enrichment are being sought. A system (Ref 7) in which fusion under carnalite is followed by vacuum distillation has proved unsatisfactory while that successfully used in Bulgaria (Ref 8) is not applicable to Soviet crusts.

enlarged laboratory and pilot plant work at the VNIITsyetmet in 1956-1957 (Ref 9) an experimental

production unit based on electrothermic zinc-distillation was built at the Ust -Kamenogorskiy lead works and has operated from November 1957 to the present. The authors

Card 1/4 give the results obtained and describe the plant.

SOV/136-59-1-9/24

Introduction of an Electrothermic Method of Distilling Zinc from Silver Crust at the Ust!-Kamenogorskiy Lead Works

I.P. Volkov, N.V. Kungurov, K.B. Boztayev, D.R. Demurin and others from the works and V.P. Kuur, F.A. Mardamshin, Yu.K. Medel'tso7, A.I. Tkachenko and V.P. Shchurchkov of VNIITs vetmet, participated. The electro-thermic installation (Fig 1) consisting of an electric furnace, oxidation chamber and dust catchers, was designed by the design department of the UKSTsK under the direction of A.V. Bratchik. The works and VNIITs vetmet laboratories performed necessary chemical analyses. The 3-phase 300-kVA furnace has a hearth bottom area of 2 m² and an effective height of 1.8 m. Fig 2 shows a vertical section through the furnace. The normal tapping hole is situated 140 mm above the bottom. The furnace is charged with an Irtyshskiy medeplavilinyy zavod (Irtysh copper-smelting works) type feeder (Fig 3). Power is supplied by two type EPOM-250/6 transformers with a total rating of The electrodes are graphitized and 200 mm in 500 kVA. Distillations of zinc were effected at 1150-Card 2/4 diameter. 1300°C, giving lead bullion (sent for cupellation), dust (discharged periodically and sent to the zinc works) and

SOV/136-59-1-9/24 Introduction of an Electrothermic Method of Distilling Zinc from Silver Crust at the Ust!-Kamenogorskiy Lead Works

> gases. All materials were weighed, gas flows were measured and, during runs for establishing materials balances, gas analyses were periodically carried out. In such runs a crust containing 64.35% lead, 25.8% zinc, 0.55% copper and 88407 g/ton silver of somewhat variable sizegrading (Table 1 shows this for two samples) was used. The results (Table 2) of a 16-day run in 1957 show that 95% of the lead in the crust was transferred into the bullion which, the authors recommend, should be refined electrolytically. The products were almost exclusively lead bullion (which contains the major part of the noble metals) and distillate (71.3 and 35.2% respectively of the weight of crust taken). Losses, of lead, zinc and silver, were insignificant. The adoption of the electrothermic method at the works (Fig 4 shows the flowsheet) has led to a doubling of labour productivity and a

Card 3/4 4.49% improvement in raw-materials utilization as well

SOV/136-59-1-9/24
Introduction of an Electrothermic Method of Distilling Zinc from Silver Crust at the Ust'-Kamencgorskiy Lead Works

as to improved working conditions in the cupellation department and great economies.

There are 4 figures, 2 tables and 9 references, 8 of which are Soviet and 1 English.

ASSOCIATIONS: Ust'-Kamenogorskiy svintsovo-tsinkovyy kombinat (Ust'-Kamenogorsk Lead-zinc combine) and VNIIIstetmet.

Card 4/4

SOV/136-59-5-9/21

AUTHORS: Vartanyan, A.M., and Kopchanko, D.S.

TITLE: The Experimental Use of Oxygen in Lead Smelting Shaft

Furnaces (Opyt primeneniya kisloroda pri shakhunoy

svintsovoy plavke)

PERIODICAL: Tsvetnyye metally, 1959, Nr 5, pp 46-49 (USSR)

ABSTRACT: The results of using oxygen-enriched air in shaft furnaces on the Ust-Kamenogorsk Lead-Zinc Kombinat are

given. Fig 1 shows the high-power oxygen plant. Oxygen is fed from a gas holder to the air-blast plant,

under pressure. Individual pipes with automatically controlled valves, which can regulate the oxygen content, feed the enriched air to the shart furnaces. Fig 2

shows the influence of oxygen content on production using a constant blast volume - 34 m3/m². An increase in 0 content to 26.5% leads to a 27% increase in

production. Fig 3 shows the influence of 0 content on the volume of blast required to maintain constant production. Increase in 0 content to 26.5% gives a decrease in enriched air volume of 34% with a corres-

ponding decrease in volume of exhaust gases. The mean

Card 1/3 pointing decrease in volume of exhaust gases. The temperature of the "goose neck" on the air blast in

SOV/136-59-5-9/21 The Experimental Use of Oxygen in Lead Smelting Shaft Furnaces April 1958 was 286 °C (reaching 600-800° on individual days). Using an enriched air mixture the temperature (in November 1958) was 120-1300 and for long periods was only 60-800. The use of enriched air also results in a decrease in dust content of exhaust gases from 2-2.5 to 1.5-1.7 g/hm3. There is a decrease in coke consumption of 13.4% due to an increase in efficiency. In the first four months of 1958 the Pb content of the slag was 2.05%. After using enriched air, the Pb content fell to 1.21% (in November 1958). Because of this decrease and the decrease in dust content of exhaust gases, there was an increase in production of crude lead of 1%. Thus, considering the increase in production, the decrease in coke consumption and the decrease in the Pb lost in the slag and the gases, the economic effect is over 5 million roubles per year. The better working conditions also Card 2/3

是一种,我们也是是我们就是我们的证明的证明的,我们就是我们的证明,我们就是我们的证明的。 第一章

SOV/136-59-5-9/21 The Experimental Use of Oxygen in Lead Smelting Shaft Furnaces

led to a decrease in the chance of lead poisoning. There are 3 figures and 1 Soviet reference.

ASSOCIATION: UKSTSK

Card 3/3

14(6)

SOV/91-59-3-6/22

AUTHOR:

Kopchenov, O.V., Engineer

TITLE:

A Combined Connecting System of a Steam Cooler (Kombinirovannaya skhema vklyucheniya parookhladi-

telya)

PERIODICAL:

Energetik, 1959, vd. 7, Nr 3, pp 13-16 (USSR)

ABSTRACT:

The author discusses the efficiency of the 3 principal systems for feeding the water from the steam cooler, used for regulating the temperature of superheated steam, to the boiler, i.e.: to the inlet of the economizer, to the intermediate junction of the economizer, and to the boiler drum (in drum-type boilers). He summarizes that none of these systems is economically perfect and states that the most common is the system in which the water is fed to the inlet of the economizer. This system was modified by the author on two type BKZ75-39FB boilers in Vil'nyusskaya TETS

Card 1/2 .

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000824510004-7

(Vil'nyus TETS) in 1957, who placed a shunt in the system permitting interchangeable feed of water from the steam cooler to the inlet or to the intermediate junction of the economizer. The modified system has been so far successfully operating. There are 2 graphs and 2 block diagrams.

Card 2/2

EXOPCHENOV, O.V., inzh.

Dynamics of a shaft mill. Teploenergetika 8 no.9:36-39 S '61.

(MIRA 14:8)

1. Litovskiy Scret Narodnogo Khozyaystva.

(Coal, Pulverized) (Crushing machinery)

KOPCHENOV, O.V., inzh.

Dynamics of an impact mill in wet fuel grinding operation. Teploenergetika 10 no.8:40-43 Ag '63. (MIRA 16:8)

1. Glavnoye Upravleniye energetiki i elektrifikatsii pri Sovete Ministrov Litovskoy SSR. (Milling machinery)

LASHCHUK, I.; KHAYMOVICH, A.; MARKIN, I.; KOPCHENOV, V.

The best construction workers. Stroitel' no.11:6 N '57.

(MIRA 10:12)

1. Brigadir kompleksnoy brigady santekhnikov, Stroyupravleniye
No. 74, Orel.

(Construction workers)

KOPCHENOV, V. (g. Zyryanovsk, Vostochno-Kazakhstanskoy oblasti);

POTAPOVA, Z.; SHINZHIRBAYEVA, Urzhan

Good news from women's councils. Rabbtnitsa 40 no.3:25 Mr '62.

(MIRA 16:2)

1. Chlen ulichnogo komiteta goroda Ivanovo (for Potapova).

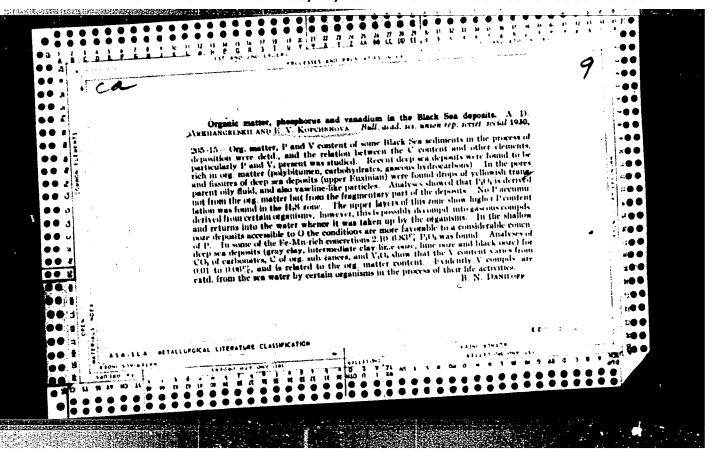
2. Zaveduyushchaya rayonnym otdelom kulltury sela Saryagach,
Yuzhno-Kazakhstanskoy oblasti (for Shinzhirbayeva).

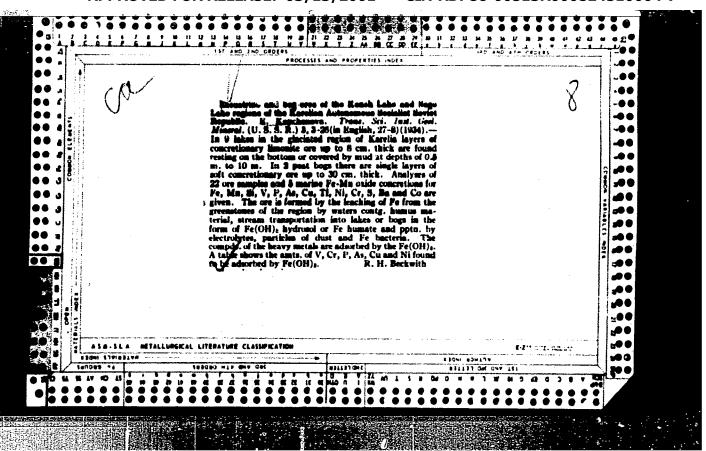
(Women-Societies, etc.)

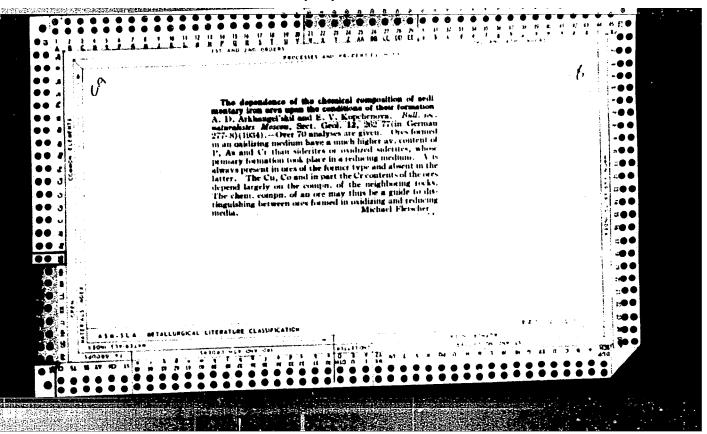
KOPCHENOV, V.D.

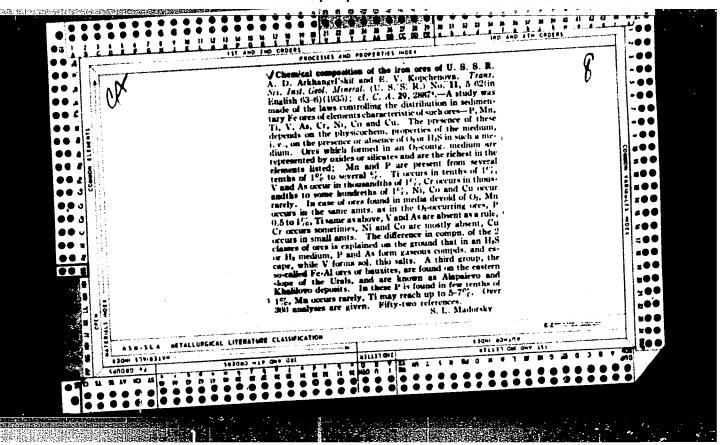
Evaluation of the solution to a variational problem. Dop.
AN URSR no.2:153-156 '65. (MIRA 18:2)

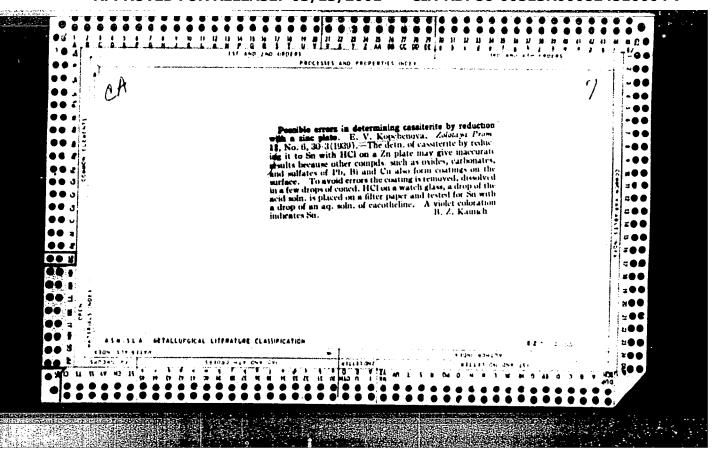
1. Moskovskiy lesotekhnicheskiy institut.

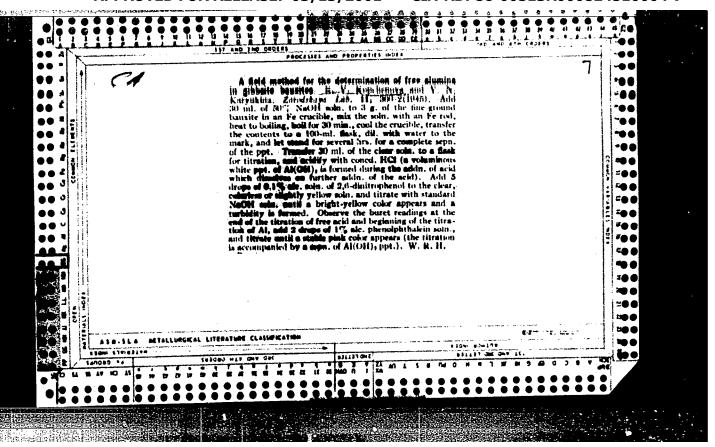


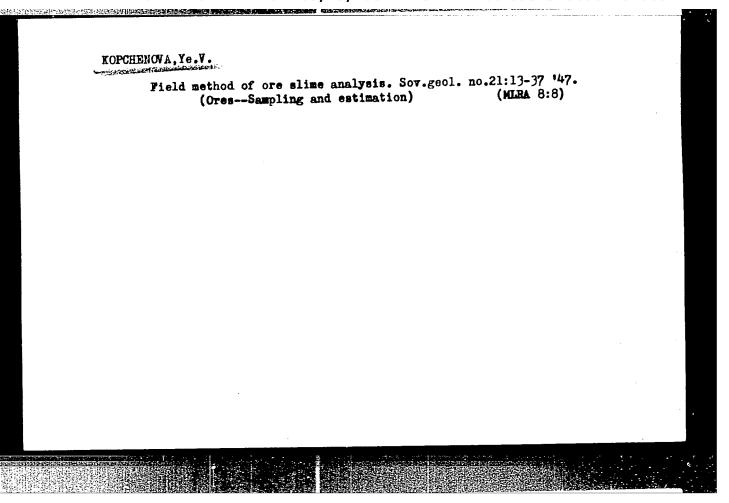


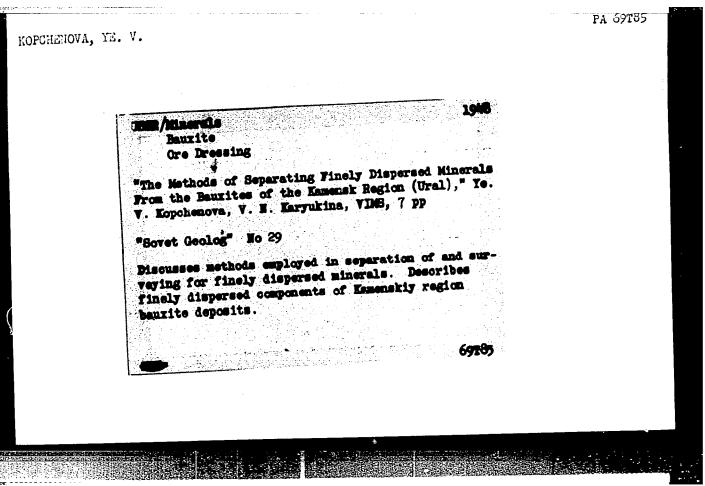












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CIA-RDP86-00513R000824510004-7

KOPCHENOVA, 1E.V.

USSR/Cosmochemistry - Geochemistry. Bydrochemistry. D

Abst Journal: Referat Zhur - Miniya, No 19, 1956, 6131

Author: Kopchenova, Ye. V., Skvortsova, K. V.

Institution: None

Title: On Formation of Pyrophyllite During Hydrothermal Change of Grano-

diorites

Original

Periodical: Sb. Issledovaniye mineral'n. syr'ya, Miscow, Gosgeoltekhizdat, 1955,

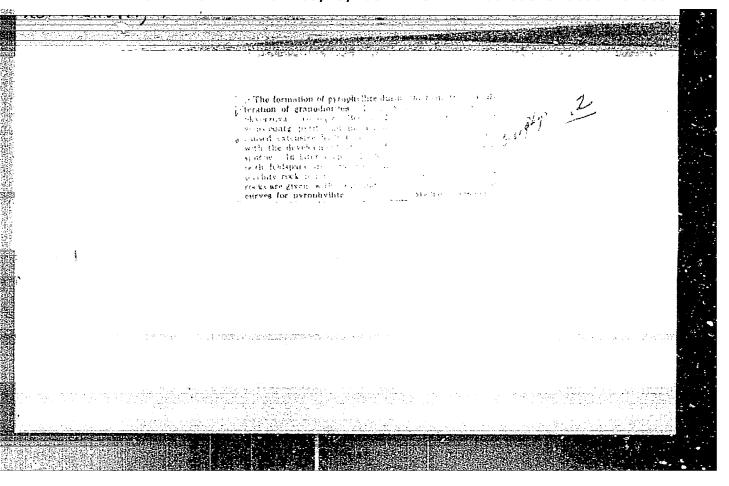
124-133

Abstract: The zone of hydrothermal change of grandierites in the proximity

of quartz-sulfide veins of a nameless deposit immists of several consecutive stages of changes in the recks observe to the trend of these veins: (1) initial stage - replacement of hornblende and biotite by an aggregate of chlorite, carbonate, quartz and muscovite, (2) replacement of K-feldspar by albite, (3) redeposi-

tion of chlorite and carbonate in the form of thin streaks and replacement of feldspars by a quartz-sericite aggregate, (4) final

Card 1/2



20-114-3-50/60

AUTHORS:

Kopchenova, Ye. V., Skvortsova, K. V.

TITLE:

Sodium Uranospinite (Natriyevyy uranospinit)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 3, pp634-636(USSR)

ABSTRACT:

Under certain physical-chemical conditions the ion exchange reactions in the minerals of the group of the uranium micas take place without difficulty. They lead to the formation of new varieties of minerals. As result of his experiments M. Mroz synthesized uranospinite $Ca(UO_2)_2(AsO_4)_2.SH_2O$ and its

derivatives. In them, calcium is substituted by hydrogen, sodium or the ammonium group. So far, nobody has described minerals of this composition as occurring in nature. While investigating the oxidation zone of the uraninite -sulphide ore
dressing, the authors of the paper under review discovered a
new species of minerals, namely sodium uranospinite, approaching in its composition the synthetic mineral by M. Mroz. The
paper goes on to describe the ore-bearing minerals, the original hydrothermal mineralization, and the minerals formed
in this context; it also discusses crystallographic proper-

Card 1/2

SEVORTSOVA, K.V.; KOPCHENOVA, Ye.V.

Formation of allephane in hydrothermal conditions. Zap. Vses. min. ob-va 87 no.6:695-698 '98. (MIRA 12:3)

(Allophane)

3(8) AUTHORB:

Kopchenova, Ye. V., Skvortsova, K. V. SOV/20-123-1-43/56

TITLE:

Collomorphous Molybdenite and Uranium-Molybdic Black Oxides in Uranium Deposits (O kollomorfnom molibdenite i urano-molibdenovykh chernyakh v mestorozhdeniyakh urana)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 1, pp 159 - 162 (USSR)

ABSTRACT:

The association of nasturan (pitchblende) and molybdenite in uranium deposits is so common that delimitation of types of complex molybdenite-uranium occurrences is possible. Further study of these can be of great interest. The composition of the ore minerals is here relatively monotonous. The close paragenetic relationship of nasturan and molybdenite is clearly expressed. The occurrence of the gangue minerals and their relations to the ore minerals is less constitution. The ore deposits of the siliceous, hydrothermally altered acid intrusions and extrusions are different than the deposits of the carbonate enriched, iron, and magnesium-rich tuffs. Nasturan and molybdenite are the most common minerals and form a close and constant association. Their transformation relationships are described in detail (Figs 1, 2). Collo-

Card 1/3

Colloworphous Molybdenite and Uranium-Molybdic Black Oxides in Uranium Deposits

SOV/20-123-1-43/5

morphous molybdenite has hitherto been described by only 2 authors (Refs 2, 10). The collomorphous character of the molybdenite precipitate together with nasturan is a result of their contemporaneous precipitation out of a gel. An original precipitation of nasturan (which yet had no crystalline structure) and of molythic sulfide of the geordisite type is probable. Then the minerals were separated as the amorphous sulfide crystallized as scale-like cryptocrystalline molybdenite and nasturan obtained a uraninite crystal structure. Geordisite, because of its high crystallization ability so seldom found in nature, has been adequately described (Ref 8) and later mentioned (Refs 6, 7, 9). It was shown (Ref 5) that molybdenite belongs to a sulfide group, which distinguishes itself by its slight solubility. For that reason it is relatively resistant under conditions of the oxidation zone. However, the aggregate of colloform molybdenite and nasturan precipitate is non-resistant and easily destroyed. The cryptocrystalline nature of the molybdenite greatly increases the surface area on which oxidizing solutions can react. This characteristic allows the molybdenum

Card 2/3

Collomorphous Molybdenite and Uranium-Molybdic Black Oxides in Uranium Deposits

SOV/20-123-1-43/56

to occur in minerals found in the hypergenic zone where it otherwise does not occur. Here it forms velvet-black or bluish-black powdered oxidation products which replace the primary minerals. The molybdenum and uranium content varies from pure molybdenum types through members containing both metals to pure uranium types. From analogy with uranium black oxides these spongy weathering products which have not yet been described, could be designated molybdenum and uranium-molybdic black oxides. These are thoroughly described and pictured (Fig 1); Table 2 shows the spectrographic analysis which discloses the great complexity of their constituents. The oxidation here caused no formation of secondary uranium and molybdenum minerals, while the weathering of the black oxides by more intensive oxidation is accompanied by separation and formation of new minerals, ilsemanite and uranosulfates. There are 2 figures, 2 tables, and 10 references, 5 of which are Soviet.

PRESENTED:

SUBMITTED: Card 3/3 June 13, 1958, by D. I. Shoherbakov, Academician,

SKVORTSOVA, K.V.; KOPCHENOVA, Ye.V.; SILANT'YEVA, N.I.; SIDORENKO, G.A.;
DARA, A.D.

Gonditions governing the formation of umohoite in uranium-molybdenum deposits of the U.S.S.R. Geol.rud.mestorozh. no.5:53-63 S-0 '61.

(Umohoite)

KOPCHENOVA, Ye.V.; SKVORTSOVA, K.V.; SILANT'YEVA, N.I.; SIDORENKO, G.A.;

MIKHAYLOVA, L.V.

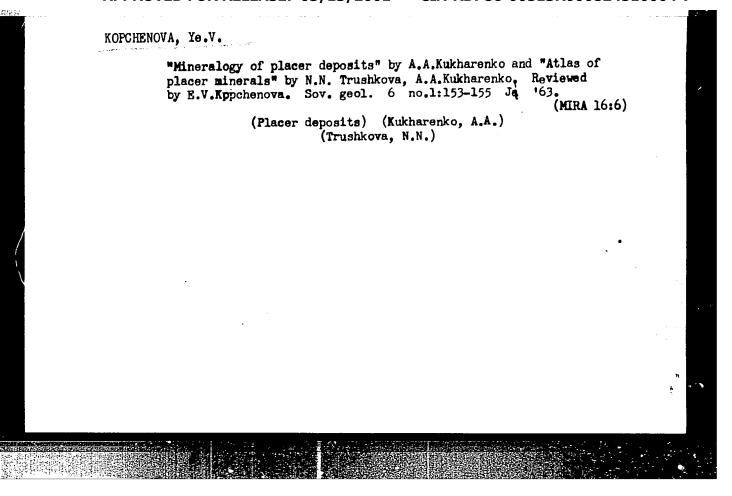
Mourite, a new supergene uranium-molybdenum mineral. Zap. Vses.
min. ob-va 91 no.1:66-71 '62. (MIRA 15:3)

(Mourite)

KORCHENOVA, Ye. V.; SIDORENKO, G. A.

Bearsite, an arsenic analogue of moraesite. Zap. Vses. min. ob-va 91 no.4:442-446 '62. (MIRA 15:10)

(Minerals) (Beryllium arsenate)



USSR/Chemistry - Hydrogen Determination Chemistry - Grigored Reaction

HOLOHDHOAK, In. V.

Pay 47

"Determination of Active Hydrogen by Feans of the Grignard Reagent in an Atmosphere of Carbon Dioxide, Fart V: Determination of Moisture in Industrial Products," As P. Terent'ov, D. G. Kaderer, Ro. E. Repchenova, Laboratory of Organic Chemistry, Moscow State University, & pp

"Zhurnal Obshchey Khimii" Vol XVII, No 5

Article shows that the method od Berent'ev and Shchertakova may to used successfully for the determination of moisture in various substances and industrille that do not react with methol magnesium iodide. Examples of the determination of moisture in charcoal, clay, starch and because are included. Submitted 28 Apr 1946.

PA 3016

KOPCHEV, Iv.

Plastic repair of the ligamentum collaterale fibulare in the ankle joint. Khirurgiia, Sofia 9 no.3:249-253 1956.

1. Institut sa spetsialisatsiia i usuvurshenstvuvane na lekarite, Soffiia klinika po ortopediia i travmatologiia. Direktor: prof. B. Boichev. (ANKLE, surgery,

plastic repair of ligamentum collaterale fibulare (Bul))

Poisonings

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000824510004-7 BULGARIA

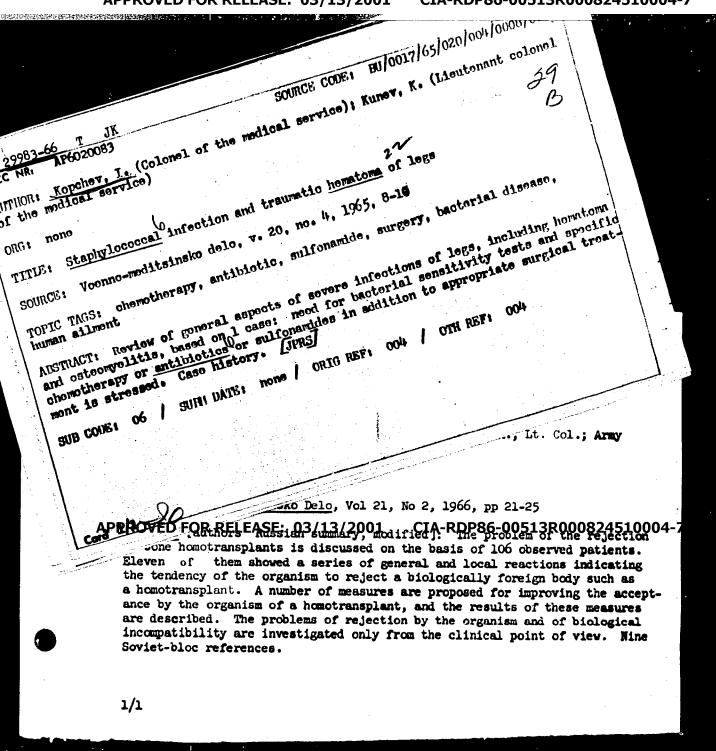
KOPCHEV. Iv. Docent, Colonel of the Medical Service, ANGELOV, A., KUNEV, K., and MINKOV, P., Lieutenant Colonels of the Medical Service; Chair of Military Field Surgery (Katedra po VPKh, Head Prof. G. Krustinov), Higher Military Medical Institute

"Study of the Effect of Blood Transfusion Upon Acute Poisoning with Dichlorodiethyl Sulfide"

Sofia, Voenno Meditsinsko Delo, Vol 21. No 5. Oct 66. pp 28-30

Abstract: Dogs were poisoned by subcutaneous injection of yperite in a dose of 20 mg/kg (LD₁₀₀) dissolved in clive oil. The animals that had been poisoned were given daily to the 5th day of survival a transfusion of 15 ml/kg glucose-citrate donor blood. The first transfusion was made 2 hours after the dogs had been poisoned. The blood transfusions prolonged the life of the poisoned dogs for a length of time reaching three days as compared with control animals, but did not prevent their death. Table, 11 references (8 Bulgarian, 3 Western). Russian summary. Manuscript received 30 Jul 66.

L 7082-00 ACC NR: /LP6000936 SOURCE CODE: BU/0017/65/020/002/0019/0025 Kopchev, I. (Assistant professor, Colonel); Stoychev, A. (Assistant professor; Kunev, K. (Colonel) 14 ORG: none TITIE: Amputation of the extremities in traumatic injuries of arteries SOURCE: Voyenno-meditsinsko delo, no. 2, 1965, 19-25 TOPIC TAGS: injury, cardiovascular system, surgery, therapeutics ABSTRACT: The authors propose new methods of amputating ischemic gangrenes in traumatic injuries of the large arterial vessels of the extremities. With the proposed method they have been able to save the knee joints of 14 patients and the articulatio cutibi in one, the amputation being made below those joints of 15 patients out of 18 and above the knee joints of three. Orig. art. has: 1 figure. [JPRS] SUB CODE: 06 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 004 SOV REF: 004 0901 2136



BULLMARIA

Col. 5 Convert, Gradidate of Hodical Sciences Iv. EOPONEY, Major K. KONCHEY and Lt. Co. H. (CONCHEY)

Egresiment of Chricular Fracturen."

Softa, Vesono Meditalisko Delo, Vei 18, No 1, Feb 1963; pp 13-19.

Abstract [Anselan Summary modified:] Of 362 patients with clavicular fractions treated in the transactionic clinic of the Military Medical Academy 1958-1952, only 51 ("25.35") were treated surgically, rest con servatively. Of surgical methods, inframedullary osteosynthesis is generally considered best. "Carclaga" [wire bracing?] is definitely paraletous despire its wide use at present in Sulgaria. Much clinical and scatterical detail, authoritative polemical attitude. Six remargenograms, 4 tables; no references.

1/1

1

KOPCHEV, Iv.; STOICHEV, A.; MIRCHEV, M.; CHEPILEV, G.; KUNEV, K.;
ATANASGV, A.; PINKAS, M.; MERIZHANOV, As.

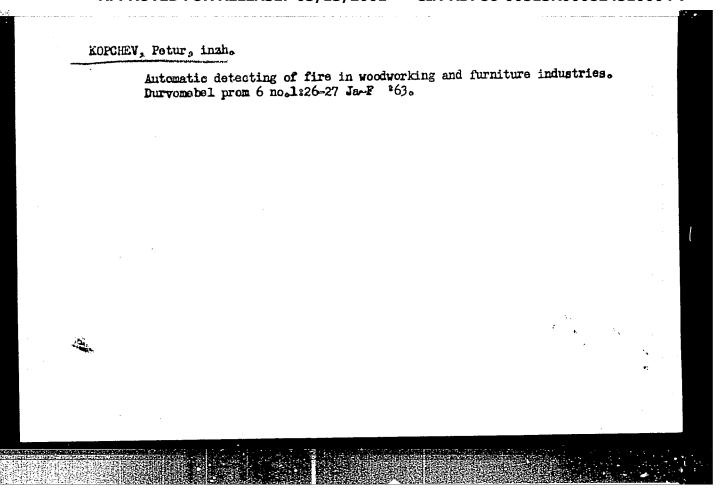
Combined radiation injuries. Khirurgiia 15 no.9/10:847-850 '62.

1. Iz Visshiia voemmomeditsinski institut.
(RADIATION INJURY)

KOPCHEV, Petur, inch.

Defects in varnishing. Durvomebel prom 5 no.3:25-29 My-Je 162.

1. Durzhavno industrialn predpriiatie "23 dekemvri", Sofiia.



KOLACH, T.A., kand.tekhn.nauk, dotsent; KOFCHIKOV, I.A., inch.

Study of boiling in a thin film. Izv.vys.ucheb.zav.; energ. 8
no.10:50-55 0 '65. (MIRA 18:10)

no.10:50-55 11 '65.

1. Moskovskiy ordena Ienina energeticheskiy institut. Predstavlana kafedroy teploobmennykh i sushil'nykh ustroyatv.

ZAYTSEV, A.G.; FADEYEVA, V.S.; KOPCHIKOVA, N.V.

Method of studying the structure of polymeric and porous building materials. Sbor. trud. VNIINSM no.4:4-12 '61.

(Building materials)
(Electron microscope)

KOPCHINSKAYA, K.

POLAND/Chemical Technology - Dyeing and Chemical

Processing of Textiles.

H-34

Abs Jour

: Ref Zhur - Khimiya, No 12, 1958, 42012

Author

Kopohinskaya, Khlynchak

Inst

Title

A Rapid Method for the Determination of Fat in Fibers.

Orig Pub

: Przem. włokienniczy, 11, No 7, 338-340

Abstract

: Complete details of the procedure and results are given on the determination of fat using a cold Soxlet ether extraction. The determination requires 30 minutes. Results are not less accurate than those obtained by a usual extraction. The atuhor explains that the slightly lower results are due to the fact that in the course of the usual extraction, a hydrolysis of scap always pre-

sent on fibers, takes place.

Card 1/1

L 11:219-66 EWT(d)/EWT(m)/EWP(v)/EWP(k)/EWP(h)/EWP(1)ACC NR: AP6005535 SOURCE CODE: UR/0089/66/020/001/0063/0065

AUTHOR: Klimentov, V. B.; Nechiporuk, V. A.; Kopchinskiy, G. A.; Yaroshevich, V. F.; Strutsinskiy, V. A.; Popov, V. D.; Nikonov, A. V.

ORG: none

TITLE: Test stand at the Institute of Physics AN UkrSSR

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 63-65

TOPIC TAGS: nuclear engineering, nuclear reactor, reactor fuel element, test stand

ABSTRACT: A test stand for critical assemblies was put into operation at the Institute of Physics AN UkrSSR at the end of 1964. The installation uses assemblies of fuel elements of the VVR-M research reactor; the moderator is ordinary water; the side reflector is made from the beryllium reflectors of the VVR-M reactor. The stand is located in a separate building. The radioactive zone is separated from the control panel by one meter of concrete shielding. The installation is equipped with sensitive monitoring and measuring systems as well as with systems for automatic and remote control. All precautions have been taken to assure reliable nuclear

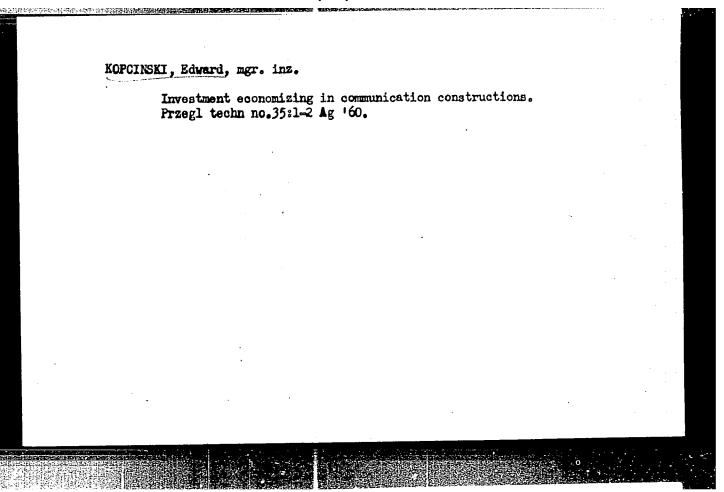
UDC: 621.039.572

Card 1/3

L 11219-66 ACC NR: AP6005535

safety and automatic control of the critical assemblies. A dc amplifier is connect ed to a galvanometer for monitoring currents in the ionization chamber down to 10 12 amp. Two recording potentiometers and a pulse rate counter are used for monitoring the power level. The instruments give reliable readings below the subcritical power level. Automatic control of the process is possible during operation at a power of more than 0.03 w which corresponds to an average thermal neutron flux 0.4.106 neutrons/cm2.sec. The automatic regulator consists of two KNK-56 ionization chambers connected in parallel, a potentiometric power controller with a high impedance input and a steel absorber, an electronic amplifier and an amplidyne. This automatic regulator is extremely convenient for operation with critical assemblies. It may be used for rapid compensation of a chain reaction at "zero" power levels and for calibration of control rods. The unit increases work safety and accuracy of holding a constant power level when detectors are activated. In addition to the steel absorber in the automatic regulator, chain reaction may be controlled by two or three boron remote control rods. An emergency signal automatically brings these rods together with three emergency safety rods into the radioactive zone of the assembly. All control and safety rods are moved by servo drives which are connected to selsyns and position indicators. Operational experience at

Card 2/3



NOTCHUGOV, V.A., kandidat tekhnicheskikh nauk,

Use of supporting reinforcing framework in reinforced-concrete beams. Stroi.

(NLEA 6:11)

prom. 31 no.10:23-28 0 '53.

(Reinforced concrete)

KUHEK, N.M., kendidat tekhnicheskikh nauk; SOKOLOV, N.M., kendidat tekhnicheskikh nauk; KCPCHUGOV, V.A., kendidat tekhnicheskikh nauk; ZAMORIN, P.K., kendidat tekhnicheskikh nauk; SCROCHAN, Ye.A., inshener; GAROVNIKOV, V.I., inshener, nauchnyy redaktor; BEGAK, B.A., redaktor isdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Use of precast foundations in building construction] Primenenie abornykh fundamentov v stroitel'stve sdanii. Moskva, Gos. isd-vo

[Use of precast foundations in building construction] Primenenie sbornykh fundamentov v stroitel'stve sdanii. Moskva, Gos. isd-vo lit-ry po stroit. i arkhitekture, 1956. 77 p. (MIRA 10:1) (Foundations)

AVAKOV, A.I., kandidat tekhnicheskikh nauk; KOPCHUGOV, V.A., kandidat tekhnicheskikh nauk.

Twenty-four meter prestressed reinforced concrete beam. Nov.tekh. i pered.op.v stroi. 18 no.7:3-6 Jl '56. (MIRA 9:9)

(Girders) (Prestressed concrete)

"Simplified Methods of Checking Interurban Connection Lines." P. 110.
"Different Types of Frequency Transformers. Tr. from the Russian." P. 111.
(WIADROSCI TELEKOMUNIKACINE, Vol. 23, No. 5, May, 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

MOPCIONSKI S

KOPCICWSKI, J.

A new way of fastening structural arches made of reinforced concrete.

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MINRO, O., Dr. KOPCSANIT, I., Or; LASZLO, m., Dr. Second Olinic of Internal Medicine (II. ez. Belgyogyastati Klinika) (Director: Banchi, a., Dr. Professor), and decond Olinic of Surgery (II. ez. debesseti Klinika) (Director: Randinger, G. O., Dr. Professor), R-Ray Laboratory (Rontger Laboratorium), Reco.

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Abstract: [Authors' Anglish summary] In the diagnosis of changes in the small intestine considerable progress has been made by improvements in K-ney apparatus, serial pictures, screen viewing, intensifiers, fractional desage of contrast madine and pharmaco-radiographic examinations. Breaks in Kerckning-Tolds, lack of smaller due to tumors, rigidity and characteristic movements of the intestine are resonabled. Of 21 references, 9 are Sungarian, 12 western.