"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

BLINKINA, B.Ya.; KROPOTINA, V.F.; PECHENKIN, N.M.; KOMPANIYETS, M.F.

Discussion of S.I.Lainer's book "Alumina production" at the Bogoslovskii and Ural Aluminum Plants. TSvet. met. 36 no.7: 91-92 Jl '63. (MIRA 16:8)

(Aluminum oxide)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

L 4970-66 EWT(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2 IJP(c) GG/AT

ACC NR: AP5026703 SOURCE CODE: UR/0141/65/008/005/0886/0892

AUTHOR: Kropotkin, A. P.; Pustovalov, V. V.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR)

TITLE: Coalescence of electromagnetic waves in a cold magnetoactive plasma

SOURCE: IVUZ. Radiofizika, v. 8, no. 5, 1965, 886-892

TOPIC TAGS: plasma, multicomponent plasma, plasma interaction, Raman scattering, laser

ABSTRACT: The article deals with decay interaction of two waves in a plasma situated in a magnetic field. One wave is transverse and its frequency is much higher than the electron gyrofrequency. The other wave has arbitrary frequency. A situation of this kind arises in Raman scattering of a laser beam by the natural oscillations of a cold magnetoactive plasma. The wave vectors of the interacting waves have arbitrary orientation relative to the magnetic field. The nonlinear interaction between the waves is expressed in terms of an integro-differential equation whose solutions can have an arbitrary time dependence and are not limited to short time intervals. By way of a particular example, the authors consider in detail the coalescence of the high-frequency transverse wave with an arbitrary

Card 1/2 UDC: 533.951

0901 1213

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L 4970-66
ACC NR: AP5026703

3

wave in the plasma to form a third wave. The relations between the frequencies and the energies of the different waves are evaluated under several assumptions regarding the relations between the longitudinal, transverse, and Langmuir frequencies of the ions and electrons in the plasma. The authors thank V. P. Silin for direction and support of the work. Orig. art. has: 25 formulas. [02]

SUB CODE: ME, EM, EC/ SUBM DATE: 13Mar65/ ORIG REF: 008/ ATD PRESS: 4138

CC

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

L 27868-66 EWT(1)/ETC/EPF(n)-2/EWG(m) IJP(c) AT

ACC NR: AP5026628 SOURCE CODE: UR/0056/65/049/004/1345/1361

AUTHOR: Kropotkin, A. P.; Pustovalov, V. V.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy institut Akademii nauk SSSR)

TITLE: Stimulated Raman scattering of longitudinal waves in a magnetoactive plasma

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 4, 1965, 1345-1361

TOPIC TAGS: Raman scattering, plasma, nonlinear optics

ABSTRACT: Stimulated Raman scattering of longitudinal waves (i.e., waves with an index of refraction n >> 1) in an unbound homogeneous plasma in a constant homogeneous magnetic field is analyzed using the nonlinear equation for the evolution of field fluctuations in a magnetoactive plasma. Expressions are obtained for the kernels of equations describing such a decay in an isothermal plasma consisting of electrons and one type of ions. The nonlinear interaction of electromagnetic waves in a magnetoactive plasma can, in most cases, be represented by a characteristic time, the expressions for which are derived for a few special cases such as interaction of three long-wavelength electron cyclotron oscillations and decay of three short-wavelength electron cyclotron oscillations. Orig. art. has: 70 formulas. [CS]

SUB CODE: OP/ SUBM DATE: 26May65/ ORIG REF: 020/ OTH REF: 004/ ATD PRESS:

Card 1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

30405

S/058/61/000/009/019/050
A001/A101

24.3410

AUTHORS: Kropotkin, M.A., Kozyrev, B.P.

TITLE: Device for determining coefficients of diffuse reflection in the long wavelength infrared range of spectrum

PERIODICAL: Referativnyy zhurnal. Fizika, no. 9, 1961, 145, abstract 9G142 ("Izv. Leningr. elektrotekhn. in-ta", 1960, no. 44, 87 - 99)

TEXT: The device consists of "globar", monochromator, mirror semi-sphere, and compensated vacuum thermocell. It is used for measuring coefficients of diffuse reflection of solid, loose and liquid specimens. The singling out of spectrum sections in the monochromator is brought about by the method of residual rays with the aid of crystals of SiO_2, LiF, CaF_2, NaF, NaCl, KCl, KBr, KRS-5, whose reflection peaks correspond to 21; 26; 32; 36; 52; 62; 83 and 180 μ respectively. A mechanism is provided for increasing monochromaticity, which permits changes in reflection number of crystalline plates from 1 to 7. The mirror semi-sphere can be focused on the surface of the thermocell. Assemblies of the device are arranged in a hood with $\sim$0.1 mm Hg vacuum. Measurements can be made with a galvanometer or a ФЭОУ-15 (FEOU-15) amplifier. It is calculated

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30405

Device for determining coefficients ... S/058/61/000/009/019/050
A001/A101

that the radiative flux incident onto the receiver surface changes from $.5x10^{-5}$w for LiF to 10^{-7}w for KRS-5. The spectral reflection coefficients of MgO obtained during the testing of the device agree well with literature data. There are 11 references.

G. Gorodinskiy

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

20874

6.3200
26.2265

S/051/61/010/005/003/006
E032/E114

AUTHORS: Kozyrev, B.P., and Kropotkin, M.A.

TITLE: A Study of Spectral Reflection Coefficients of the Coatings of Thermal Radiation Detectors in the Wavelength Region 10 - 200 μ

PERIODICAL: Optika i spektroskopiya, 1961, Vol.10, No.5, pp. 657-662

TEXT: A description is given of an apparatus for measuring the diffuse reflection coefficients R of various materials in the wavelength range 10 - 200 μ. The reflection coefficients are of interest because infra-red radiation detectors are usually in the form of, say, a metal foil which is blackened in order to increase its absorbability, and the properties of this coating determine both the spectral and the integral sensitivity. Fig.1 shows the optical arrangement employed. The apparatus is based on the method described by the first of the present authors and O.Ye. Vershinin in this journal, Vol.4, 542, 1959. Radiation from the source Г is reflected by the spherical mirror 33 and plain mirror 34 and is focussed on the entrance slit S_1 of the

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S/051/61/010/005/003/006
E032/E114

A Study of Spectral Reflection Coefficients of the Coatings of Thermal Radiation Detectors in the Wave Length Region 10 - 200 μ

monochromator. After multiple reflection from the crystal plate B and the spherical mirrors 3_1 and 3_2, the radiation leaves through the slit S_2 and is focussed on the specimen under investigation by the mirrors 3_5 and 3_6 through an aperture in the mirror hemisphere. The radiation reflected by the specimen is focussed by this hemisphere onto a detector. The entire apparatus is mounted on a heavy steel plate and is covered by a glass bell-jar which is then evacuated to a pressure of 0.05 mm Hg. The monochromator is so designed that by changing the angle between the spherical mirrors 3_1 and 3_2 (as shown by the arrows 1 - 1) one can alter the number of reflections from the crystal plate from 1 to 7 and hence adjust the degree of monochromatization. In order to separate out isolated narrow wavelength ranges from the continuous spectrum, eight different crystal plates were prepared. These crystals are listed in Table 1 which also gives the wavelengths corresponding to maximum reflection and the wavelength range after multiple reflections

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S/051/61/010/005/003/006
E032/E114

A Study of Spectral Reflection Coefficients of the Coatings of Thermal Radiation Detectors in the Wavelength Region 10 - 200 μ

from the given crystal. The number of reflections from fused quartz, LiF, CaF_2, NaF and KRS-5 was 5, while the number of reflections for the remaining crystals was 3. The crystal plates can be replaced in situ, and the specimen under investigation and the final detector are placed on a rotatable table under the spherical mirror. In the first position of the table the radiation falls on the specimen under investigation. The table is then rotated through 180° and the specimen is thus replaced by the detector. The ratio of the signals obtained in two positions gives the diffuse reflection coefficient. A detailed description of the apparatus was given by the present authors in Ref.9. In order to reduce the effect of scattered short wavelength radiation, smoked polyethylene and quartz crystal filters were employed. The first material investigated was kerosene black. The specimens were deposited on strips of brass leaf (1.5 cm^2) which were then placed in contact with pieces of copper in order to reduce the heating of the specimen by the incident radiation.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

20874

S/051/61/010/005/003/006
E032/E114

A Study of Spectral Reflection Coefficients of the Coatings of Thermal Radiation Detectors in the Wavelength Region 10 - 200 μ

The reflection coefficient was investigated as a function of wavelength and the different deposition conditions. Fig.2 shows the diffuse reflection spectra of kerosene black deposited under the various conditions indicated in Table 2. In Table 2, g is the thickness of the deposit in mg/cm^2, g_M is the amount of oil placed on the brass foil before the deposition of the specimen (in mg/cm^2) and h_{cp} is the average thickness of the deposit as measured with a microscope. It was found that the diffuse reflection coefficient is very dependent on the deposition conditions and it is recommended that: (1) The deposits should be sufficiently thick, e.g. not less than 0.5 mg/cm^2; (2) a preliminary oil deposit is desirable; (3) strong smoking flame should be employed. (NOTE: Numeration in Fig.2 is the same as in Table 2). Another material employed was a mixture of kerosene black with the БФ-2 (BF-2) glue. Table 3 gives the values of g, g_c and h_{cp} for the various specimens (g_c is the amount of kerosene black in the mixture).

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

20674

S/051/61/010/005/003/006
E032/E114

A Study of Spectral Reflection Coefficients of the Coatings of Thermal Radiation Detectors in the Wavelength Region 10 - 200 μ

The corresponding spectra are shown in Fig.3. The roughly equal reflection coefficients of the deposits with $g > 0.6-0.7$ mg/cm^2 are due to the presence of fine cracks in the deposit. This was verified by transmission experiments.
There are 5 figures, 3 tables and 9 references: 3 Soviet and 6 non-Soviet.

SUBMITTED: July 22, 1960

Table 1

Crystal	SiO_2	LiF	CaF_2	NaF	KC	KBr	CsI	KRS-5
λ_{max} (microns)	9	26	32	36	62	83	145	180
$\Delta\lambda$ (microns)	2	10	9	10	15	18	20	30

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, M.A.; KOZYREV, B.P.

Spectral coefficients of reflection and sensitivity of silicon phototubes. Izv.vys.uch.zav.; fiz. no.4:118-122 '62.
(MIRA 15:9)

1. Leningradskiy elektrotekhnicheskiy institut imeni Ul'yanova (Lenina).

(Photoelectric cells)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

E 18986-63 EWT(1)/BDS AFFTC/ASD/ESD-3/APGC/IJP(C)/SSD

ACCESSION NR: AP3005685 S/0146/63/006/004/0123/0130

61
60

AUTHOR: Kropotkin, M. A.; Kozy*rev, B. P.

TITLE: Outfit for investigating spectral reflection of dispersing materials in the longer-wave infrared band

SOURCE: IVUZ. Priborostroyeniye, v. 6, no. 4, 1963, 123-130

TOPIC TAGS: dispersing material, infrared spectroscopy, spectroscopy, spectral reflection, spectral coefficient

ABSTRACT: A new outfit is described for measuring the spectral coefficients of diffuse reflection of various materials in the longer-wave infrared band; diffraction gratings are used for monochromatization of radiation. The monochromator of the new outfit is similar to the DIKS-1 infrared spectrometer, while the measuring part of the outfit was described by these authors earlier (Optika i spektroskopiya, 1961, v. 10, no. 5, p. 657). A functional diagram is presented

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ACCESSION NR: AP3005685

and explained in the article, as well as a circuit diagram of the electrical supply. Four 200x200-mm diffraction gratings, 1:2.5 aperture ratio, 1.5-5/cm resolution, and $4x10^{-10}$ -w sensitivity of the receiver-recorder permit investigating various solid, free-flowing, and even liquid materials within a 20-400-micron band. Orig. art. has: 5 figures, 1 formula, and 2 tables.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Lenina (Leningrad Electrotechnical Institute)

SUBMITTED: 07Dec62 DATE ACQ: 06Sep63 ENCL: 00

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

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KOZYREV, B.P.; KROPOTKIN, M.A.

Diffuse reflection from white coatings highly absorbing infrared radiation. Opt. i spektr. 14 no.1:152-155 Ja '63. (MIRA 16:5)
(Reflection (Optics)) (Infrared rays)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

NR: AP4048297 S/0146/64/007/005/0122/0127

M. A. Kozyarev, B. I

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

[illegible] NR: AP4048297

[illegible] are presented, as well as curves [illegible] revealed a spread [illegible]

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Lenina (Leningrad Electrotechnical Institute)

SUBMITTED: 24Dec63 DATE ACQ: 00 ENCL: 00

SUB CODE: OP NO REF SOV: 002 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

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L 2725-66 EWT(1)/T/EED(b)-3/ETC(m) IJP(c) WW

ACCESSION NR: AP5017174 UR/0139/65/000/003/0027/0029

AUTHOR: Kropotkin, M. A.; Kozyrev, B. P.

TITLE: Determination of the spectral coefficients of reflection of friable materials in the wavelength range 0.7--15 μ

SOURCE: IVUZ. Fisika, no. 3, 1965, 27-29

TOPIC TAGS: ir spectrometer, ir spectrum, spectrum analysis, soil

ABSTRACT: The authors describe a new attachment for an infrared spectrometer (IKS-12), based on the use of the mirror-type hemisphere which they employed earlier (Optika i spektroskopiya v. 4, 542, 1959) to measure the spectral reflection coefficients of diffusedly-scattering materials. The attachment is shown in Fig. 1 of the Enclosure and its operating principle is similar to that described in the earlier paper. The equipment was used to measure the reflection of sand and soil at wavelengths 0.7--15 μ. It is shown that the loss of reflected radiation can be taken into account by introducing special coefficients, equations for which are derived. The results indicate that the reflection spectra of sand and soil have the same character, owing to the similarity of their chemical structures. On the other hand, the results also reflect the major differences between these materials. Orig. art. has: 2 figures and 3 formulas.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

L 2725-66

ACCESSION NR: AP5017174

3

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institute (Leningrad Electrotechnical Institute)

SUBMITTED: 06Nov63 ENCL: 01 SUB CODE: OP

NR REF SOV: 002 OTHER: 003

Card 2/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

L 2725-66

ACCESSION NR: AP5017174

ENCLOSURE: 01

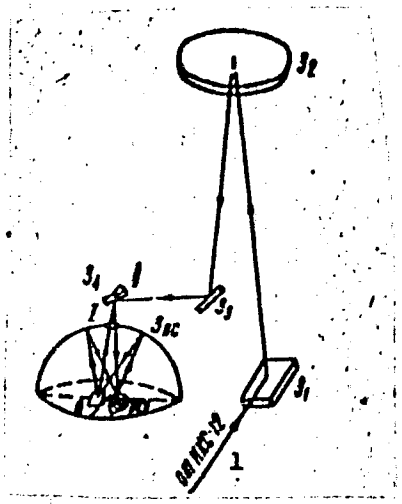

Fig. 1. Optical diagram of attachment.

3 - Mirrors, $3_{пс}$ - hemispherical mirror,
1 - from IR spectrometer.

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, N.

Widen the ranks of brigades and shockworkers of communist labor. Mashinostroitel' no.7:38-40 Jl '60. (MIRA 13:7)
(Efficiency, Industrial)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P. A.

Accounts of the Olekmo-Bvitim expedition for the discovery of a cattle trail from Nerchinsk Okrug Lo Olikminsk, established in 1866
Zap. Russk. Geogr. Obshch. Po. Obshch Geogr. Vol. 3 1873

SO: Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of Ministers, Vol. 201, 1948

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.A.

Teaching physical geography. Geog.v shkole 23 no.2:28-34 Mr-Ap '60. (MIRA 13:6)
(Physical geography--Study and teaching)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

Ca

1

The formation of the granites. P. N. Krugikin. *Sovset Geol.* 1940, No. 9, 32-43. — The thermodynamic conditions of temp. and pressure, heat capacity and cond necessary for granite and similar rock formation are discussed. P. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

[illegible], I. N.

"Tectonics and Metallogenesis of the Eastern Part of Central Kazakhstan"

1944 Referat Zhur. 33

Inst. Geol Sci. AS USSR.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

7

New region of tungsten and molybdenum mineralization in northeastern Kazakhstan. P. N. Kropotkin. *Compt. rend. acad. sci. U.R.S.S.* 48, 496-7(1945). A no. of rare metal deposits in granite intrusions into Paleozoic rocks in northeastern Kazakhstan are described. B. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

Pa-67T41

USSR/Geology Mar/Apr 1948
Stratification
Tectonics

"New Data on the Stratigraphy of the Upper Paleozoic of the Southeastern Part of Primorya," P.N. Kropotkin, S.A. Salun, 6 pp

"Iz Ak Nauk SSSR, Ser Geolog" No 2

Authors studied Upper Paleozoic cross sections of the mountainous regions of Sikhote-Alin'. Discuss the [illegible] complex based on data obtained. New fauna discoveries permit more detailed division of the Upper Paleozoic

67T41

USSR/Geology (Contd) Mar/Apr 1948

deposits into lower, middle, and upper layers.

67T41

KROPOTKIN, P. N.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

Kropotkin, P.N. "On some basic questions of tectonics", Bulleten' Mosk. O-va isp/tatele, prirody, Otd. geol., 1948, Issue 6, p. 103-10, - Bibliog: 24 items.

SO:U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

"New Data on Stratigraphy of Cambrian and Proterozoic Areas in Eastern Asia."

DAN Vol 69, No. 2, 1949.

Inst. Geol Sci., Acad. Sci. USSR

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

USSR/Geology - Structural Geology Jan/Feb 50
Geological Prospecting

"Soviet Geotectonics in the Stalin Five-Year Plans," P. N. Kropotkin, 19 pp

"Ix Ak Nauk SSSR, Ser Geol" No 1

FA156T38

Discusses morphological (structural), regional, genetic, or comparative tectonics and geotectonic hypotheses, studies which made possible S. S. Smirnov's forecasts on metal-bearing deposits in Northeast Siberia, I. M. Gubkin's on oil bearing in Russian platform and Predural'ye depression (lands west of Urals), N. S. Shatskiy's on oil bearing in Ukraine, and M. I. Varentsov's on oil bearing in Turkmenia and Central

156T38

USSR/Geology - Structural Geology (Contd) Jan/Feb 50

Asia. Regional tectonics made possible I. M. Gubkin's forecasts on Second Baku; P. I. Stepanov's (Greater Donbass); and Yu. A. Bilibin's on gold bearing in Siberia. Facial-tectonic analyses led to successful searches for phosphorites and vanadium ores in Kazakhstan, K salts in the Urals, Mn ores in Central Kazakhstan and Urals, oil in Siberian and Russian platforms, new coal beds in Southern Primorskiy Kray, Northeast Siberia, etc. Recent Soviet geotectonics severely criticize Wegener's continental-drift hypothesis.

156T38

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

USSR/Geology - Cosmogony
Structural Geology Jan/Feb 50

"O. Yu. Shmidt's Cosmogonic Theory and the Structure of the Earth," P. N. Kropotkin, Inst of Geol Sci, Acad Sci USSR, 27 pp

"Iz Ak Nauk SSSR, Ser.Geograf i Geofiz" Vol XIV, No 1

PA156T33

According to Shmidt's theory, the earth and solar system did not emerge from incandescent matter separated from the sun, but were created by union of multitude of particles of cold cosmic dust and

[redacted]

USSR/Geology - Cosmogony (Contd) 156T33
Jan/Feb 50

meteorites. Basic data on density of plants and earth's structure agree with the theory. Submitted by Acad A. A. Grigor'yev 5 Aug 49.

[redacted]

156T33

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Kropotkin, P.N.	"Tectonic Map of the USSR" (scale 1:4 million)	Moscow State University imeni M.V. Lomonosov

SO: W-30604, 7 July 1954

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

(1) Geophys. 3

The contemporary geophysical data on earth structure and the problem of origin of basaltic and granitic magmas. P. N. Kropotkin. *Izvest. Akad. Nauk S.S.S.R., Ser. Geol.* 1953, No. 1, 38-62.—Relying on recent data from geophysics and meteoritics, K. demonstrates that the terrestrial core's envelope is 90% of ultrabasic material, and not, as generally assumed, of basaltic material. The acid and basic materials composing the superficial rocks do not come from a magmatic differentiation of ultrabasic materials, but from their partial fusion, and are so to be considered as the more fusible eutectoids extd. from a solid ultrabasic mass. The 3 great types of rocks, granite, basalt, and dunite, are the products of this process, the last being the residue after extn. of granite and basalt. The other rock types (diorite, granodiorite, andesite, dacite, etc.) are products of hybridization and kinematic differentiation. Gravitative and crystn.-differentiation play insignificant roles. K. mentions numerous evidences of the sialic layer's thickness-variations and of its discontinuous character. Problems of the origin of the continents and magmas are inseparable: granitic and basaltic magmas arise by local fusion of the ultrabasic layer, thus giving progressively growing continents. K. proposes replacing the old conception of continental blocks, made originally of sialic material, by the conception of local differentiation. He concludes with the necessity of studying beside a descending line of magmatic processes, an ascending one namely the arising of magmas out of the solid ultrabasic substratum.

J. Jedwab

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Mineralogical and
Geological Chemistry

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P. N.

USSR/Geophysics - Earth's Structure Jan/Feb 53

"Contemporary Geophysical Data on the Earth's Structure, and the Problem of the Origin of Basaltic and Granitic Magma," P. N. Kropotkin

"Iz Ak Nauk, Ser Geolog" No 1, pp 38-62

Reviews the theories of US petrographers, Bowen and Daly, who discussed the origins of volcanic rocks as the result of crystallized, gravitational differentiation of basaltic magma. Gives reasons for a new hypothesis of the melting of various eutectoid magmata

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from hard subcrustal substratum. This hypothesis is based on geophysical data and on the theory of the earth's formation from cold cosmic dust (Acad O. Yu. Shmidt and others).

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

USSR/Geophysics - Tectonics Nov/Dec 53

"Review of V.V. Belousov's Book 'Tectonic Faults, Their Types and Mechanism of Formation'," P.N. Kropotkin, Dr of Geol-Min Sci, N.V. Zvolinskiy and Yu.V. Riznickenko, Drs of Phys-Math Sci, reviewers

Iz Ak Nauk SSSR, Ser Geofiz, No 6, pp 561-568

Favorably review V.V. Belousov's book "Tektonicheskiye razryvy, ikh Tipy i Mekhanizm Obrazovaniya," which is No 17 (144) of the series entitled 'Trudy Geofizicheskogo Instituta AN SSSR' (Works of th Geophys Inst Acad Sci USSR), Izdatel'stvo AN SSSR (Publishing House of Acad Sci USSR), Moscow, 1952, 147 pp with illustrations, 1000 copies, price 8 rubles.

273T87

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

LI, Su-Kwang; HUANG, Po-Chin [authors]; KROPOTKIN, P.N., doktor geologo-mineralogicheskikh nauk [reviewer].

Two books on the geology of China ("Geology of China," Li Su-Kwang; "Principle features of the tectonics of China," Huang Po-chin. Reviewed by P.N.Kropotkin) Priroda 42 no.11:123-124 N '53. (MLRA 6:11)
(China--Geology) (Li, Su-Kwang) (Hunag, Po-Chin)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

USSR/ Geology Literature

Card : 1/1 Pub. 46 - 13/16

Authors : Kropotkin, P. N.

Title : About V. A. Magnitskiy's book entitled "The Bases of the Physics of the Earth"

Periodical : Izv. AN SSSR. Ser. geol. 4, 133, July - August 1954

Abstract : Critique of the book by V. A. Magnitskiy entitled "The Bases of the Physics of the Earth", also used as an astronomical-geodetic handbook in higher educational institutions.

Institution : ....

Submitted : March 9, 1954

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

Linear zonality of mineralization in old folded regions. Sov. geol. no.43:43-60 '55. (MLRA 8:9)
(Mineralogy) (Ore deposits)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, Petr Nikolayevich, doktor geologo-mineralogicheskikh nauk; USPENSKAYA, N.V., redaktor; ISLENT'YEVA, P.G., tekhnicheskiy redaktor.

[Geological history and the structure of the earth] Geologicheskaia istoria i stroenie zemli. Moskva, Izd-vo "Znanie" 1956 38 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.3, no.12). (Geology) (MLRA 9:5)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N

LYUSTIKH, Yevgeniy Nikolayevich; KROPOTKIN, P.N., otvetstvennyy redaktor; GUROV, K.P., redaktor; ASTAF'YEVA, tekhnicheskiy redaktor.

[Isostasy and isostatic hypotheses] Izostaziia i izostaticheskie gipotezy. Moskva. Izd-vo Akademii nauk SSSR. 1956. 89 p. (Akademiia nauk SSSR. Geofizicheskii insitut.Trudy no.38) (MIRA 10:3)
(Isostasy)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

D.

USSR/ Cosmochemistry. Geochemistry. Hydrochemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11534

Author : Kropotkin P.N.
Inst : Academy of Sciences Ukrainian SSR
Title : Origin of the Hydrocarbons of the Earth s Crust. (Chemism and Most Important Geological Characteristics of the Occurence of Petroleum and Gas.

Orig Pub : Materialy Diskussii po probleme proiskhozhdeniya i migratsii nefti. Kiev, AN USSR, 1956, 94-125

Abstract : See RZhKhim, 1956, 50581

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

A brief outline of the neotectonics of Sikhote-Alin. Izv.AN SSSR Ser.geol.21 no.3:34-56 Mr '56. (MLRA 9:7)

1.Geologicheskiy institut AN SSSR, Moskva.
(Sikhote-Alin Range--Geology)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N., doktor geologo-mineralogicheskikh nauk.

Origin of continents and oceans. Priroda 45:31-42 Ap '56. (MIRA 9:7)
(Continents) (Ocean)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P. N.

"Fundamental Features in the Tectonics of Priamurie, Sikhoto-Alin, Sakhalin Island, Kurile Islands and Kamchatka Peninsula,"

with Ye. N. Lustikh, "Pacific Type of Structure of the Earth's Crust and Problems Pertaining to the Origin and Growth of Continental Masses,"

papers presented at the 9th Pacific Science Congress, Bangkok, Thailand 18-29 Nov 57,

Trans. in Mining Gazette, Vol. 2, No. 11, 1957, Bangkok.

Sr. Researcher, Geological Inst. Acad. Sci. USSR

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P. N.

"Phenomena of the Compressions and Tensions in the Earth's Crust," paper presented at the First All-Union Conference on Tectonophysics, Mowcow, 29 January through 5 February 1957.

Institute of Geological Sciences, Academy of Sciences USSR

Sum 1563

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

"The Geological Conditions for the Appearance of Life on the Earth, and the Problems on Petroleum Genesis," a paper presented at the International Symposium on the Origin of Life on the Earth, Aug 57, Moscow.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KOSYGIN, Yuriy Aleksandrovich, doktor geologo-mineralogicheskikh nauk, professor; KROPOTKIN, P.N., professor, redaktor; USPENSKAYA, N.V., redaktor izdatel'stva; GUBIN, M.I., tekhnicheskiy redaktor

[Tectonic map of the U.S.S.R. and the distribution of mineral resources] Tektonicheskaia karta SSSR i razmeshchenie poleznykh iskopaemykh. Moskva, Izd-vo "Znanie," 1957. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 8, no.14) (MLRA 10:8)

(Geology, Structural--Maps)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

SHATSKIY, N.S.; BOGDANOV, A.A.; BELYAYEVSKIY, N.A.; VERESHCHAGIN, V.I.; ZAYTSEV, N.S.; KOSYGIN, Yu.A.; KROPOTKIN, P.N.; MURATOV, M.V. NAGIBINA, M.S.; OGNEV, V.N.; PAVLOVSKIY, Ye.V.; PEYVE, A.V.; PUSHCHAROVSKIY, Yu.M.; SALOP, L.I.,; SOBOLEVSKAYA, V.N.; KHARITONOV, L.Ya.; KHERASKOV, N.P.; SHEYNMAN, Yu.M.; SHTREYS, N.A.; YANSHIN, A.L.; VERSTAK, G.V. redaktor izdatel'stva; GUROVA, O.A. tekhnicheskiy redaktor

[Tectonic map of the U.S.S.R. and adjacent countries on a scale of 1:5,000,000; explanatory notes] Tektonicheskaia karta SSSR i sopredel'nykh stran v masshtabe 1:5,000,000; ob"iasnitel'naia zapiska. Moskva, Ges. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 77 p. (MLRA 10:5)

1. Akademiya nauk SSSR.
(Russia--Geology--Maps)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

Concentric (thermal) zoning and genetic connection between mineralization and intrusions). Sov. geol. no.58:74-92 '57. (MIRA 11:2)

1.Geologicheskiy institut AN SSSR.
(Mineralogy)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, Petr Nikolayevich,; LYUSTIKH, Yevgeniy Nikolayevich,; POVALO-SHVEYKOVSKAYA, Nina Nikolayevna,; MAGNITSKIY, V.A., prof., otv. red.; PERMYAKOVA, A.I., red.;GUR'YANOV, V.P., tekhn. red.

[Gravity anomalies on continents and oceans and their significance for geotectonics; outline of the gravimetry of foreign countries] Anomalii sily tiazhesti na materikakh i okeanakh i ikh znachenie dlia geotektoniki; ocherk po gravimetrii zarubezhnykh stran. [Moskva] Izd-vo Mosk. univ., 1958. 75 p. (MIRA 11:11)
(Gravity)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

AUTHOR: Kropotkin, P.N. SOV/5-58-4-7/43

TITLE: The Importance of Paleomagnetism for Stratigraphy and Geotectonics (Znacheniye paleomagnetizma dlya stratigrafii i geotektoniki)

PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskiy, 1958, Nr 4, pp 57-86 (USSR)

ABSTRACT: The article deals with the state of research into the paleomagnetism of rocks and discusses the possibilities of applying determinations of natural residual magnetization of rocks for the correlation of stratigraphical profiles. The author considers various conclusions drawn from polar and continental movements as indicated by rock magnetism by the following scientists according to certain data on paleomagnetism: A. Vegener, E. Argan, R. Shtaub, V. Solomon-Kal'vi, A. Dyu Toyt, L. King, R. Maack, B.L. Lichkov, J. Goguel (Ref. 10, 33,45,48), D. Dzholi, D. Grigrs, Ch. Pekeris, B. Gutenberg, P.M. Du Bois (Ref. 29), S. Runcorn, K. Creer (Ref. 26), A. Nairn (Ref. 51,52), D. Clegg, E. Deutsh, P. Stubbs (Ref. 24), E. Irving (Ref. 40,41), G. Natgorst, M. Neymayr, F. Kreykhgauer, W. Koeppen. Néel, T. Eynardsson, T. Sigurgeyrsson, N.M. Strakhov, Yu.M. Sheynmann, V.Ye. Khain, A.B. Ronov, V.A.

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SOV/5-58-4-7/43

The Importance of Paleomagnetism for Stratigraphy and Geotectonics

Vakhrameyev, N.S. Shatskiy, K. Bruks, G.F. Lungersgauzen, Ye.E. Razumovskaya, Yu.M. Pushcharovskiy, D. Mal'mkvist, B.Yu. Levin, T. Gold, A.Ya. Orlov, A. Roche, N. Opdyke, M. Matuyama, Ts.G. Akopyan, A.T. Aslanyan and J. Jaegger (Ref. 43). The author states as the most important point that the conclusion of the mutual movement of continents remains valid independent of the fact whether the thesis of the coincidence of the average position of the magnetic axis with the axis of the movement of the Earth is accepted or whether it is considered that the axis of the movement of the Earth does not move in relation to the Earth's crust. The science of paleomagnetism opens up a new approach to problems concerning stratigraphy, paleoclimatology, paleontology, geotectonics and paleovolcanism. The research done in this field in the Soviet Union by VSEGEI, the Institut fiziki zemli AN SSSR (The Institute of Physics of the Earth, AS USSR), the Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut (The All-Union Oil Scientific Research Institute of Geological Prospecting) and others has been carried out on a rather small scale. Thus a far-reaching USSR research program is absolutely necessary in

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SOV/5-58-4-7/43

The Importance of Paleomagnetism for Stratigraphy and Geotectonics

the near future.
There are 6 charts, 2 diagrams, 2 graphs, 1 table and 60 references 20 of which are Soviet, 32 English, 5 German, 2 French and 1 Norwegian.

1. Geology 2. Rock--Magnetic properties 3. Terrestrial magnetism 4. Geophysics

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

VEYTSMAN, P.S. [translator]; VILLER, K.E. [translator]; KROPOTKIN, P.N., red.; SAVARENSKIY, Ye.F., red.; YAKOVENKO, M.Ye., red.; GRIBOVA, M.P., tekhn.red.

[Crustal structure, based on seismic data; collected studies] Stroenie zemnoi kory po seismicheskim dannym; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1959. 362 p. Translated from the English. (MIRA 13:6)

(Geology) (Seismic prospecting)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

3(5) PHASE I BOOK EXPLOITATION SOV/2302

Akademiya nauk Ukrainskoy SSR. Institut geologii poleznykh iskopayemykh

Problema migratsii nefti i formirovaniya neftyanykh i gazovykh skopleniy; materialy L'vovskoy diskussii 8-12 maya 1957 g. (Problem of Oil Migration and the Formation of Oil and Gas Accumulations; Materials of the Discussion Held in L'vov, May 8-12, 1957) Moscow, Gostoptekhizdat, 1959. 422 p. 1,100 copies printed.

Eds.: V. B. Porfir'yev, Academician of the Ukrainian SSR Academy of Sciences, and I. O. Brod, Professor; Exec. Ed.: P. R. Yershov; Tech. Ed.: A.S. Polosina; Editorial Board: I.O. Brod, Professor, N.R. Ladyzhenskiy, and V.B. Porfir'yev, Academician of the Ukrainian Academy of Sciences.

PURPOSE: This collection of articles is intended for a wide range of geologists and research workers interested in oil problems.

COVERAGE: Articles contained in this book deal with the problems of migration and accumulation of oil and gas. These problems were discussed in May 1957 at L'vov State University im. I. Franko at a meeting organized jointly by the Institute of Geology and Mineral Resources, Academy of Sciences of the USSR, the Department of Geology and Oil Exploration of the L'vov Polytechnic Institute, and the L'vov Geological Society. Theories on the origin of petroleum deposits and the conditions surrounding their occurrence are treated. There are 327 references: 232 Soviet, 86 English, 5 French, and 4 German.

TABLE OF CONTENTS:

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Opening Address by the President of the Organization Committee of the Conference V.B. Porfir'yev 5

REPORTS

Avrov, V.Ya. [VNIGRI] Basic Regularities in the Formation of Oil Deposits in the Prikaspiyskaya Salt Dome Region 111

Linetskiy, V.F. [IOFI, AN UkrSSR] Anomalous Formation Pressure as a Time Criterion in the Formation of Oil Deposits 121

Andryavtsev, N.A. [VNIGRI, Leningrad] Mechanics of the Formation of Oil and Gas Deposits 136

Kropotkin, P.N. and K.A. Shakhvarstova [Geologicheskiy Institut] Solid Bitumens, Oil, and Hot Gases in Ultrabasic Intrusions, Traps and Volcanic Necks 151

Porfir'yev, V.B. [Institut geologii poleznykh iskopayemykh AN UkrSSR] The Time Problem in the Formation of Oil Deposits 165

DISCUSSIONS

Mekhtiyev, Sh.F. [Institut geologii im. I.M. Gubkina, Azerbaydzhan] The Source Bed Characteristic of the Lower Part Deposits in the Productive Series (Middle Pliocene) of Azerbaydzhan 194

Kozlenko, S.P. and K. A. Mashkovich. [VNIGNI Branch, Saratov] The Age of Oil and Gas Traps as a Criterion for Forecasting Their Oil-bearing Capacity 202

Elinson, M.M. [MGRI, Moscow] Distribution of Heavy Hydrocarbons Under Various Geological Conditions 208

Vyslev, O.S. On the Question of Oil in the Antarctic Region 210

Veber, V.V. [VNIGNI, Moscow] Formation of Oil Deposits and Facies of Sedimentation 211

Vydrin, D.I. [Krasnodarneftegazrazv.] New Data on the Geology of the Oil-and Gas-bearing Possibilities in the Western Caucasus and Predkavkaz'ye 217

Card 5/10

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

PUSHCHAROVSKIY, Yu.M.; SHATSKIY, N.S., akademik, glavnyy red. [deceased]; KROPOTKIN, P.N., red.toma; TUGOLESOV, D.A., red.izd-va; YEGOROVA, N.F., tekhn.red.

[Tectonics of the U.S.S.R.] Tektonika SSSR. Glav.red.N.S.Shatskii. Moskva, Izd.Akad.nauk SSSR. Vol.5. [Verkhoyansk marginal trough and Mesozoic formations in northeastern Asia] Priverkhoianskii kraevoi progib i mezozoidy severo-vostochnoi Azii, 1960. 235 p. (MIRA 13:12)

1. Akademiya nauk SSSR. Geologicheskiy institut.
(Verkhoyansk region--Geology, Structural)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

S/169/62/000/001/005/083
D228/D302

AUTHOR: Kropotkin, P. N.

TITLE: The phenomena of contraction and tension in the crust and opportunities for their study

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1962, 11, abstract 1A98 (Probl. tektonofiziki, M., Gosgeoltekhizdat, 1960, 290-306)

TEXT: Flexure and shear folds, disharmonic folding, thrusts, reversed faults, and overthrust movements demonstrate horizontal crustal contraction. The large positive isostatic gravity anomalies on most island arcs and on some young geoanticlines may be the result of elastic crustal warping under the effect of horizontal compression creating excess pressure. The rise of the substratum into the upper structural stages or towards the surface of basic and ultrabasic magmatic melts also testifies to this excess pressure. Faults, grabens, and linearly elongated downwarps demonstrate crustal tension; it is also demonstrated by gravimetric and seismic

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data for deep-water trenches. Local tensional phenomena related to different crustal deformations are considered. The author supports the pulsation hypothesis of Obruchev, Usov, and Bucher. In the contraction phase folding and elastic crustal warping arise, and the mechanism of the substratal differentiation and rise of basalt, andesite, granite, and alkaline magmas into the crust becomes operative. The attenuation of orogenic processes and the deepening of grabens occur in the tension phase. The crustal pulsations result in mobilism (in continental drift), though not to a very great extent. 56 references. [Abstractor's note: Complete translation.]

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

KROPOTKIN, P.N.

Some notes on V.I.Pochtarev's article "The earth's magnetic field and its relationship with other geophysical phenomena and the geological structure of the earth's crust." Izv.AN SSSR.Ser.geofiz. no.6:909-910 Je '60. (MIRA 13:6)

1. Akademiya nauk SSSR. Geologicheskiy institut.
(Magnetism, Terrestrial) (Pochtarev, V.I.)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826630004-2

S/011/60/000/012/001/001
A105/A133

AUTHOR: Kropotkin, P. N.

TITLE: Paleomagnetism and its significance for stratigraphy and geotectonics

PERIODICAL: Akademiya Nauk SSSR, Izvestiya, Seriya Geologicheskaya, no. 12, 1960
3 - 25

TEXT: The author surveys the available data on paleomagnetism and gives a statistical interpretation of these data. Results of paleomagnetism which signify large horizontal movements of the earth's crust, should be evaluated in the light of the latest geological and geophysical data on shifts and other tangential displacements. A detailed study of the petrotectonics of folded structures led to the conclusion that a significant drop in the transverse dimensions of the various folds and a number of folded zones takes place when the layers are compressed by tangential forces. The total decrease of the dimensions across the overthrust scale extension of the central Rocky Mountains, is evaluated as 130 km in the latest works. The shift amplitude is determined within 107 km in Scotland, 256 km in the north-eastern part of the Pacific Ocean, (according to the shift of the magnetic anomaly strips, crossed by the Pioneer break), and with less certainty, within 370 - 480 km along the shifts of California and New Zealand. The considerable

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dimensions of the expansions have to be assumed in order to explain the fact that, in large depressions, the thickness of the earth's crust, measured from the surface of the folded foundation (i.e., from the base of the deposit cover), to the surface of the Mokhorovichich, is much less than in sections where the foundation did not undergo a descent. Further expression of the same process are obviously the grabens and depressions of the Red Sea, Gulf of Aden, the Mosambic and Baffin straights, the Black and Yellow Seas and the Atlantic and Indian oceans. In these, judging from the geophysical data, the thickness of the crust is reduced to a complete or almost complete tapering out of the granite layer. In all similar cases, the isostasis and results of seismo-probing, point to the assumption of a tear of the contitent's crust and a separation of its individual sections by a large distance from each other. Reference is made to the fact that mobilism is considered to be the accepted theory by most geologists who have made a study of the northern framework of the Atlantic or the Gondvan structure. The final stages of its disintegration were observed by F. Woker, A. Poldervaart and L. King, according to similarities of the mesozoic vulcanism of Africa and South America, and G. Grabert, according to the localization of the fresh-water lower chalk and the penetration of the upper-chalk transgression along the faulty furrows, preceding the final separation, S. W. Carey [Ref. 33: Wegener's South America-Africa assembly

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fit or misfit? Geol. Mag. no. 3, vol, 92, 1955] recently showed, by means of special stereographic projections, the perfect coincidence of the outlines of the continental slope of Africa and South America, reconstructed by A. Vegener. Two explanations are offered for the paradoxical phenomenon of the sharp difference in the structure of the crust of the Atlantic ocean and neighbouring continents: 1) either a shift of the continental block masses of the earth's crust along its covering layer, i.e., a separation of the continents according to the hypothesis of A. Vegener; 2) or sunken sections of the earth's crust of continental type were found to be diluted, or rather, melted with hardly any remainder when submerged to the bottom of the ocean. Preference is given to the theory of mobilism since, according to a number of authors, the second of these versions is not suitable from the physico-chemical and geophysical points of view. It is pointed out that in modern theories of epeirophoresis, the movement of the continental masses and the folding of the layers in the geosyncline, is usually noted together with the action of the sub-crust course in the sheath itself. These deep streams are said to convey along with them crust masses, having a rather passive nature. The zones of deep-focus earthquakes in the geosynclines, bordering on the Pacific ocean are considered to be the traces of the descending branch of the deep-lying currents falling to the bottom. Thus, in the "neomobilism" scheme, the arguments

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offered by N. S. Shatskiy [Ref. 25: Gipotesa Vegenera i geosinklinali (Vegener's Hypothesis and the Geosynclines). Izv. AN SSSR, ser. geol., No. 4, 1946] against A. Vegener's theory become invalid. The author points out in the conclusion that the latest geophysical data seismo-probing, gravimetry and magnetic filming, showing the absence of suhken "intermediate" continents in the oceans, as well as the paleomagnetism, leads to a review of the former theories of geotectonics and indicate the validity of the horizontal movements of the earth's crust and sub--crust masses. There are 11 figures and 58 references: 28 Soviet-bloc and 30 non-Soviet-bloc. The references to the four most recent English-language publications read as follows: Chang-Wen-you, Nairn, A. E. M. Some palaeomagnetic investigations on Chinese rocks. Sci. Record, n.s., vol. 3, No. 1, Peking 1959; Irving, E. Palaeomagnetic pole positions - a survey and analysis. Geophys. J. Roy. Astron. Soc., vol. 2, No. 1, 1959; A. Roche, L. Cattalla. Remanent magnetism of the Cretaceous basalts of Madagascar. Nature, vol. 183, No. 4667, 1959; S. K. Runcorn. Rock Magnetism. Science, vol. 129, No. 3555, 1959.

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KOLESNIKOV, A. G., FIKOVANOV, A. A., and IVANOVA, G. S., Moscow State University, Physical Faculty, Chair of Marine Physics and Terrain Waters - "On the calculation of rate of radioactivity spreading in depths" (Section VII.B.6)

KOLTUN, V. M., Institute of Zoology - "The method of spicule analysis and possibilities of its use in paleogeographical studies of the Pacific Ocean" (Section III.C)

KORSUNEVA, Ye. V., Institute of Geology - "Distribution of spores and pollen of terrestrial plants in bottom sediments of the Pacific" (Section III.A)

KORT, V. G., Director, Institute of Oceanology - "The heat exchange between the Antarctic waters and the adjacent oceanic waters" (Section VII.D.1)

KOSHLYAKOV, M. N., Institute of Oceanology - "An example of the computation of the deep currents in the northeastern Pacific" (Section VII.B)

KOZLYANINOV, M. V., and KOZLOVA-MOTKINA, Olga I., Institute of Oceanology - "The interrelation between turbidity, phytoplankton and primary production" (Section III.C.4)

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LEVIN, M. G., Institute of Ethnology - "Once more on the Ainu problem" (Section II.B)

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Report submitted to the 6th Intl. Cong. of the Intl. Union of Prehistoric and Prohistoric Sciences, Rome, Italy
29 Aug - 3 Sep 1962

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KROPOTOV, A. I.

KROPOTOV, A. I.: "The scientific heritage of Academician N. Ya. Sonin." Leningrad Order of Lenin State U imeni A. A. Zhdanov. Liningrad, 1956. (Dissertation for the Degree of Candidate in Physico-mathematical Science)

Source: Knizhnaya letopis' No 40 1956 Moscow

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[illegible] F. (Mining engineer), Kropotov, [illegible] (Mining engineer), Beketov, [illegible] Nikolayev, [illegible]

[illegible] an investigation [illegible] of [illegible] charges

[illegible] Nauchno-tekhnicheskoye gornoye obshchestvo [illegible] Vzryvnoye delo, no. 34/11, [illegible] vzryvya [illegible]

[illegible] mine blasting, [illegible]

The authors discuss some results obtained in a detailed study of the [illegible] charges of [illegible]

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[illegible] tests a determination was made of the [illegible] form and para-
[illegible] The diameter [illegible]

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