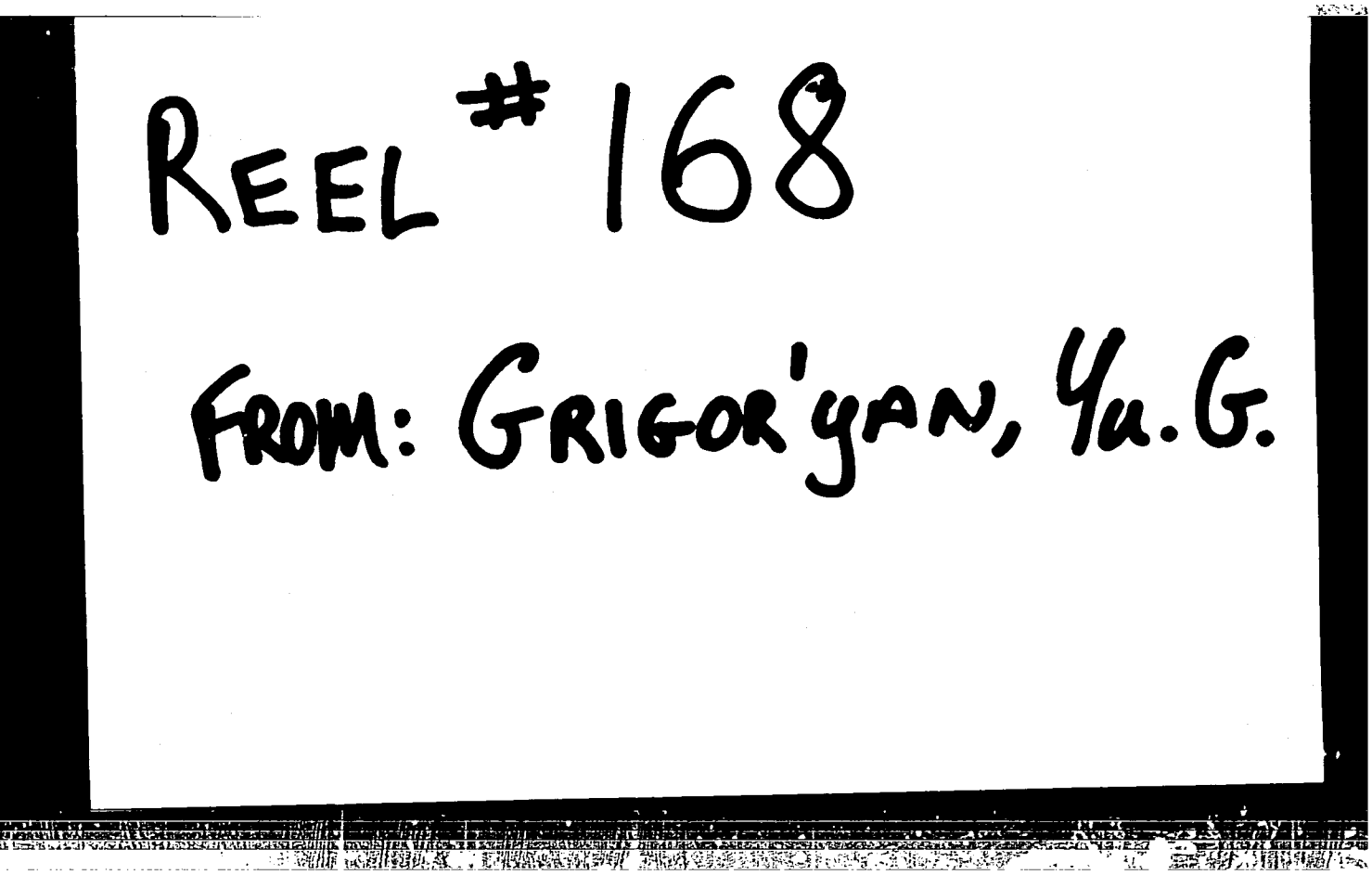

ADONTS, G.T.; GRIGOR'YAN, Yu.G.; ADONTS, M.V.

Algorithm, program, and an example for computing on discrete-action calculating machines the fuel economy regime of a power system involving the state selection of generating units. Izv. An Arm. SSR. Ser. tekh. nauk 14 no.3:13-26 '61. (MIRA 14:8)

1. Institut elektrotekhniki AN Armyanskoy SSR.
(Electric power plants--Fuel consumption)
(Calculating machines)

GRIGOR'YAN, Yu.G.

Method of calculating start-up rates of fuel consumption involving the state selection of generating units in thermal electric power plants. Izv. AN Arm. SSR. Ser. tekh. nauk 14 no.3:71-76 '61. (MIRA 14:8)

1. Institut elektrotekhniki AN Armyanskoy SSR.
(Electric power plants--Fuel consumption)

S/208/62/002/001/016/016
D299/D303

16,6200 (1031, 1132, 1327, 2403)

AUTHOR: Grigor'yan, Yu.G. (Yerevan)

TITLE: Algorithm for solving a system of logical equations

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 2, no. 1, 1962, 186 - 189

TEXT: An algorithm is proposed which is suitable for programming on an electronic computer. Let $M \neq \Lambda$ denote a set and U_i ($i = 1, 2, \ldots, k$) - any of its subsets. A sequence σ_i of 0's and 1's is given. The system of characteristic equations is

$$\sigma_i = \begin{cases} 1, & \text{if } x \in U_i \\ 0, & \text{if } x \in \overline{U}_i \end{cases} \quad (x \in M;\ i = 1,2,\ldots,k). \quad (3)$$

The solution of system (3) is defined as a nonempty set $G \subset M$, so that for any $x \in G$, system (3) becomes an identity. Such a set has the form

Card 1/4

Algorithm for solving a system ...

$$G = A_q \setminus A_q \cap B_p, \tag{4}$$

where

$$A_q(\sigma = 1) = \bigcap_{\alpha=1}^{q} U_{i_\alpha}; \quad B_p(\sigma = 0) = \bigcup_{\beta=1}^{p} U_{i_{q+\beta}}; \tag{5}$$

A system of logical functions can be represented in a unique manner in a completely disjunctive form, viz.:

$$Y_i = \bigvee_{j=0}^{l} F_{ij} N_j \quad (i = 1, 2, \ldots, k; \; l = 2^m - 1), \tag{6}$$

where N_j is the constituent of the decomposition of unity, F_{ij} - the value of the function Y_i for values of x corresponding to

$$j = \sum_{r=1}^{m} x_r 2^{m-r}. \tag{7}$$

The set M denotes $\{0, 1, 2, \ldots, 2^m - 1\}$. Each logical function Y_i

Card 2/4

Algorithm for solving a system ...

of (6) is brought to a one-one correspondence with a subset $U_i \subset M$, consisting of decimal numbers (of N). The identically-true logical function is made to correspond with M, the identically-false -- with the empty set Λ. Hence

$$Y_i(j) = \begin{cases} 1, & \text{if } j \in U_i, \\ 0, & \text{if } j \bar{\in} U_i. \end{cases} \qquad (8)$$

It is noted that it is not absolutely necessary to represent system (6) in a completely disjunctive form. Two examples are considered, involving a system of 7 logical equations with 200 variables. The first example shows that the method is so simple that the system can be solved in many cases by simple computation; in more complicated cases, one has to use computers. In programming the above algorithm, initially 3 subprograms were prepared. The computer calculates first the set A_q, then $A_q \cap B_p$ and (in the third stage) the set G itself, according to formula (4). If the system of logical functions is not given in the form (6), it has to be brought to

Card 3/4

Algorithm for solving a system ...

that form, or one uses formula

$$g = a_q \,\&\, \overline{(a_q \,\&\, b_p)}. \qquad (9)$$

The program was prepared at the Institute of Energetics of the AS Armenian SSR, under the direction of the author. It was found that for programming such an algorithm, a special digital computer is required with large memory (operative as well as external). There are 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: J. Campeau The synthesis and analysis of digital systems by boolean matrices. IRE, Trans. Electronic Comput., 1957, Dec., EC-6, no. 4, 231-41.

SUBMITTED: September 27, 1961

Card 4/4

GRIGOR'YAN, Yu.G.

Using computers for the synthesis of digital automatons.
Izv. AN Arm. SSR. Ser. tekh. nauk 16 no.6:41-47 '63.
(MIRA 17:1)

1. Institut energetiki AN Armyanskoy SSR.

ACCESSION NR: AP4028973 S/0280/64/000/002/0040/0049

AUTHOR: Grigor'yan, Yu. G. (Yerevan)

TITLE: Digital computer experiments with visual pattern recognition

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1964, 40-49

TOPIC TAGS: pattern recognition, visual pattern recognition, digit recognition, digital computer pattern recognition, handwritten digit recognition

ABSTRACT: An algorithm of teaching a universal digital computer to recognize (by the principle of the shortest distance between the patterns) handwritten 0-9 digits is investigated; the digit height was kept constant, and the digits were placed approximately in the center of the viewing field. A metric space D is constructed which is considered as a space of images $N(0, 1, 2, \ldots, m^k-1)$ which are characterized by m different hues. Specifically, with $m = 2$, the space becomes a space of apices of a k-dimensional unit cube $G(0, 1, \ldots, 2^k-1)$,

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ACCESSION NR: AP4028973

in which the problem of recognising 0-9 digits represented by black-white patterns may be solved. The space is considered as a receptor field, i.e., a retina. The recognition algorithm allows for a statistical connection between one pattern and all others by means of introduced distances. The algorithm can be taught and it functions in a rigid scheme, without incentives or penalties. Digital computer trials showed a recognition coefficient of 93%. "In conclusion, the author wishes to thank V. M. Glushkov and V. A. Kovalevskiy for discussing the results and for their comments." Orig. art. has: 1 figure, 34 formulas, and 3 tables.

ASSOCIATION: none

SUBMITTED: 25Jun63 DATE ACQ: 30Apr64 ENCL: 00

SUB CODE: DP, LE NO REF SOV: 005 OTHER: 001

Card 2/2

GRIGORYAN, YU. M.

USSR/Engineering - Construction

Card 1/1 #Pub. 70 - 3/11

Authors # Grigoryan, Yu. M.; Margus, M. E.; and Smolyar, A. A., Engineers

Title # Automatization of water-drainage during hydrotechnical construction work

Periodical # Mekh. stroi. 4, 9-12, Apr 1954

Abstract # A special pumping system, planned for the drainage of water during the construction of the Stalingrad Hydroelectric Plant on the Volga River, is described. Electrical wiring diagrams, for the two- and three-line automatic pumping-installation, are included. Drawings.

Institution : .....

Submitted : .....

GRIGORYAN, Yu. M.

SHOLYAR, A.A., inzhener; MARGUS, M.Ye., inzhener; GRIGORYAN, Yu.M., inzhener.

Automatization of drainage in hydrotechnical construction work. Gidr.stroi. 23 no.5:9-11 '54. (MLRA 7:8)
(Dams) (Drainage)

Electroösmosis for reducing the water in concrete. Yu. M. Grigoryan and L. A. Osipov. *Gidrotekh. Stroitel.* 25, No. 10, 13–15(1956).—The amt. of water which seps. from concrete under the action of electroösmosis increases with the voltage. Optimum voltage is 60–65 v. and optimum current 3–4 amp. The max. amt. of water removed is 13.4% of all the water used in mixing; this makes it possible to reduce the water/cement ratio from 0.64 to 0.47. Observations during 1 hour show that the water seps. chiefly during the first 5–7 min; the sepn. then decreases to zero. At 60–65 v., the temp. rise of the concrete is 15–20° in the first 15 min. and 60–65° in 1 hr. With voltage above optimum, temp. rises sharply and sepn. of water drops. Strength of specimens subjected to osmosis is 35% higher than for control specimens. Combining vibration and electroösmosis should result in greater sepn. of water.

—B. Z. Kamich

GRIGOR'YAN, Yu.M.

Mining problems in the "Cosmography" of Sebastian Münster. Trudy Inst.ist.est.i tekh. 33:177-191 '60. (MIRA 13:8)
(Mining engineering)

GRIGOR'YAN, Yu.Ye.

Automatic vertical drilling machine. Mashinostroitel' no.2:23 F '60. (MIRA 13:5)

1. Nachal'nik byuro stankostroyeniya zavoda "Krasnyy Aksay." (Drilling and boring machinery)

GRIGOR'YAN, Z.G.

Petrographic characteristics of Apsheron sediments in the Kura Lowland. Trudy AzNII DN no.4:139-149 '56. (MIRA 14:4)
(Kura Lowland—Petrology)

GRIGORYAN, Zh.M.

Kazan-lich copper-molybdenum deposit. Izv. AN Arm. SSR. Ser. geol. i geog. nauk 10 no. 5/6:85-89 '57. (MIRA 11:8)

1. Armyanskoye geologicheskoye upravleniye.
(Zangezur Range--Molybdenum ores)

GRIGORYAN, Zh.S. [Hryhorian, Zh.S.]

Methods for the manufacture of bulked yarn. Leh.prom. no.1: 57-60 Ja-Mr '63. (MIRA 16:4)

1. Leningradskiy tekstil'nyy institut im. Kirova.

GRIGORYAN, Zh.S. [Hryhorian, Zh.S.]

Bulk yarn from staple fibers of various shrinkage characteristics manufactured on cotton spinning machines. Leh. prom. no.2:76-81 Ap-Je '63. (MIRA 16:7)

1. Leningradskiy tekstil'nyy institut im. Kirova.
(Textile fibers, Synthetic)
(Yarn)

GRIGORYAN, Zh.S. [Hryhorian, Zh.S.]

Calculating the strength of bulky yarns on the basis of the breakage curves of the yarn and its component fibers. Leh. prom. no. 4:43-50 O-D '63. (MIRA 17:5)

GRIGOR'IANTS, A.

"Trade-union barons" in the service of the dollar ("Meany and Reuther" by IU.Kornilov. Reviewed by A. Gigor'iants). Sov. profsoiuzy 17 no.7:45 Ap '61. (MIRA 14:3)
(United States--Trade unions)
(Kornilov, IU.)

GRIGOR'YANTS, A.

"Problems of the international trade-union movement" by N. Pimenov, V.Korol'kov. Reviewed by A. Grigor'iants. Sov. profsoiuzy 18 no.11:44 Je '62. (MIRA 15:6)
(Trade unions) (Pimenov, N.) (Korol'kov, V.)

SEDOV, V.N.; kand.tekhn.nauk; YEFIMOV, Yu. V.; inzh; GRIGOR'YANTS, A.A.

Program control of traffic at railroad stations. Avt., telem. i svias' 5 no.1:4-6 Ja '61. (MIRA 14:3)

(Railroad—Signaling—Centralized traffic control)

ACCESSION NR: AP4025899 S/0166/64/000/001/0066/0076

AUTHORS: Aliyev, M. K.; Grigor'yants, A. G.; Khodzhayev, L. Sh.

TITLE: Equations for the pion nucleon scattering amplitudes in the region of low energies

SOURCE: AN UzSSR. Izv. Seriya fiziko-matematicheskikh nauk, no. 1, 1964, 66-76

TOPIC TAGS: pion nucleon scattering, low energy region, nucleon antinucleon annihilation, s wave amplitude, p wave amplitude, pion pion interaction, Mandelstam representation, Cini Fubini approximation, differential method

ABSTRACT: A system of coupled integral equations is obtained for the s- and p-waves of the pion-nucleon scattering and for the s- and p-waves of the annihilation channel

$$N\bar{N} \to \pi\pi,$$

by applying the Cini-Fubini method to the Mandelstam representation. The differential method is used, i.e., the partial amplitudes are expressed in terms of the

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forward- and back-scattering amplitudes. The equations for the partial amplitudes of the pion-nucleon scattering are not presented because of their awkwardness. However, they can be obtained from the derived equations of the form

$$A^{(+)}(s, \bar{s}, t) = \frac{1}{\pi}\int\limits_{(M+\mu)^2}^{\infty} ds' \left[a_0^{(+)}(s') + t a_1^{(+)}(s')\right]\cdot\left(\frac{1}{s'-s} + \frac{1}{s'-\bar{s}}\right) + \\ + \frac{1}{\pi}\int\limits_{4\mu^2}^{\infty} dt' \frac{b_0^{(+)}(t')}{t'-t} + C_{A(+)},$$

$$A^{(-)}(s, \bar{s}, t) = \frac{1}{\pi}\int\limits_{(M+\mu)^2}^{\infty} ds' \left[a_0^{(-)}(s') + t a_1^{(-)}(s')\right]\left(\frac{1}{s'-s} - \frac{1}{s'-\bar{s}}\right) + \\ + \frac{s-\bar{s}}{\pi}\int\limits_{4\mu^2}^{\infty} dt' \frac{b_1^{(-)}(t')}{t'-t},$$

ACCESSION NR: AP4025899

$$B^{(+)}(s, \bar{s}, t) = \frac{g_r^2}{M^2 - s} - \frac{g_r^2}{M^2 - \bar{s}} +$$

$$+ \frac{1}{\pi} \int_{(M+\mu)^2}^{\infty} ds' \left[a_0^{(+)}(s') + t a_1^{(+)}(s') \right] \left(\frac{1}{s' - s} - \frac{1}{s' - \bar{s}} \right) + \frac{s - \bar{s}}{\pi} \int_{4\mu^2}^{\infty} dt' \frac{b_1^{(+)}(t')}{t' - t},$$

$$B^{(-)}(s, \bar{s}, t) = \frac{g_r^2}{M^2 - s} + \frac{g_r^2}{M^2 - \bar{s}} +$$

$$+ \frac{1}{\pi} \int_{(M+\mu)^2}^{\infty} ds' \left[a_0^{(-)}(s') + t a_1^{(-)}(s') \right] \left(\frac{1}{s' - s} + \frac{1}{s' - \bar{s}} \right) +$$

$$+ \frac{1}{\pi} \int_{4\mu^2}^{\infty} dt' \frac{b_0^{(-)}(t')}{t' - t} + C_{a(-)}.$$

where μ and M are the pion and nucleon masses respectively. Here

$$s = -(p_1 + q_1)^2 = -(p_2 + q_2)^2,$$

$$\bar{s} = -(p_1 + q_2)^2 = -(p_2 + q_1)^2,$$

$$t = -(p_1 + p_2)^2 = -(q_1 + q_2)^2,$$

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ACCESSION NR: AP4025899

satisfy the condition

$$s+\bar{s}+t=2(M^2+\mu^2),$$

where p_1 and p_2 are the initial and final 4-momenta of the nucleon and q_1 and q_2 — of the pion. The solutions of these and the solutions of the equations for the partial amplitudes of the annihilation channel also contain the term responsible for the pion-pion interaction. Orig. art. has: 130 equations and 3 diagrams.

ASSOCIATION: Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics, AN UzSSR)

SUBMITTED: 02Nov63 DATE ACQ: 17Apr64 ENCL: 00

SUB CODE: NP NO REF SOV: 002 OTHER: 008

Card 4/4

GRIGOR'YANTS, A.G.

Toward a new expansion of the artificial fiber industry. Tekst.prom. 15 no.10:4-6 O'55. (MLRA 8:12)

1. Nachal'nik Glavnogo upravleniya iskusstvennogo volokna
(Textile fibers, Synthetic)

GRIGOR'YANTS, A.G.

Development of the synthetic fiber industry during the sixth five-year plan. Tekst.prom. 16 no.6:24-26 Je '56. (MLRA 9:8)
(Textile fibers, Synthetic)

GRIGOR'YANTS, A.G.

GRIGOR'YANTS, A.G.

Development of the synthetic fiber industry. Tekst.prom.17 no.11:23-26 N '57. (MIRA 10:12)

(Textile fibers, Synthetic)

GRIGOR'YANTS, A.G.

Prospects for expanding the production of synthetic fibers. Tekst. prom. 18 no.12:19-21 D '58. (MIRA 11:12)
(Textile fibers, Synthetic)

GRIGOR'YANTS, A.G.; BORISOV, A.L.

Industry of synthetic fibers striving for an accelerated rate of development. Khim.volok. no.1:1-4 '63. (MIRA 16:2)

1. Sovet narodnogo khozyaystva SSSR (for Grigor'yants).
2. Gosudarstvennyy komitet po khimii pri Gosplane SSSR (for Borisov).

(Textile fibers, Synthetic)

GRIGOR'YANTS, A.N., kand.med.nauk; DORNIKOVA, N.P. (Moskva)

The effect of vitamin B12 on the excitability of the central nervous system. Klin.med. 37 no.9:91-97 S '59. (MIRA 12:12)

1. Iz gospital'noy terapevticheskoy kliniki pediatricheskogo fakul'teta (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.
(VITAMIN B12, pharmacology)
(CENTRAL NERVOUS SYSTEM, pharmacology)

GRIGOR'YANTS, A. N., kand. med. nauk

Cholesterol level in the blood and the functional state of the liver in hypertension. Terap. arkh. no.7:43-46 '61.
(MIRA 15:2)

1. Iz gospital'noy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. A. A. Bagdasarov) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova.

(HYPERTENSION) (LIVER) (CHOLESTEROL)

GRIGOR'YANTS, A.N., kand.med.nauk; VOLKOVA, M.A.

Treatment of myelomic disease. Sov.med. 26 no.7:20-23 Jl '62.
(MIRA 15:11)

1. Iz kafedry gospital'noy terapii pediatricheskogo fakul'teta (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent Ye.V. Kasatkin) II Moskovsk[illegible]o meditsinskogo instituta imeni N.I. Pirogova.
(MARROW--CANCER) (DOPAN) (STEROID) (ERGOCALCIFEROL)

GRIGOR'YANTS, A. N., kand. med. nauk

Antitoxic function of the liver and the state of central nervous system excitability in hypertension. Terap. arkh. 34 no.4:67-70 '62. (MIRA 15:6)

1. Iz gospital'noy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. A. A. Bagdasarov[deceased]) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova.

(LIVER) (HYPERTENSION) (NERVOUS SYSTEM)

GRIGOR'YANTS, A.N., kand. med. nauk; YERMAKOVA, V.A.

Functional liver insufficiency and macrocytosis of erythrocytes in hypertension. Sovet. med. 27 no.6:92-96 Je'63 (MIRA 17:2)

1. Iz gospital'noy terapevticheskoy kliniki (direktor- deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

GRIGOR'YANTS, A.N., kand. med. nauk

Treatment of peptic ulcer and chronic gastritis with ventriculin.
Sov. med. 27 no.10:106-109 O '63. (MIRA 17:6)

1. Iz gospital'noy terapevticheskoy kliniki (zav. prof. [illegible] Yurenev) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

AUTHOR: GRIGOR'YANTS,A.N. PA - 2253

TITLE: Some Problems of the Operation of a Nuclear Electricity Plant. (Nekotoryye voprosy ekspluatatsii atomnoy elektrostantsii,Russian)

PERIODICAL: Atomnaia Energiia, 1957, Vol 2, Nr 2, pp 109 - 117 (U.S.S.R.)
Received: 3 / 1957 Reviewed: 5 / 1957

ABSTRACT: All parts of the nuclear electricity plant which has been in operation in the Soviet Union since two and a half years have so far given full satisfaction in practice, and this is the case in particular with the heat-producing uranium elements. Not one of these elements failed, so that the working period of the technological channels could be extended and the burning-out depth of U^{235} could be increased. Data are given in a table.

Next, the method of partly changing the charge of the technological channels of the reactor is discussed in detail. This method offers some advantages and is well suited for the operation of similar energetic reactors of high efficiency. The author also tells of the preparation of the reactor for operation after a long interval of inactivity (e.g. after a partial change of charge of the technological channels).

For the operation of nuclear electricity plants and similar reactors the following was found: 1) It is necessary to take into account the contribution made by the heat contained in the

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Some Problems of the Operation of a Nuclear Electricity Plant.

graphite of the reactor to the remanent heat liberation of the technological channels. 2)The applicability of BAY's (BEY's ?) formula for the computation of the segregation of heat in the technological channels was confirmed. 3) The technological channels can be easily removed already 2 hours after the reactor has ceased working, after which they may be put into the container without any special cooling. 4) The intensity of the remanent heat segregated in the technological channels makes it possible to do without the average system for cooling the reactor if the current supply is interrupted.

The water of the first circuit must meet the follwing demands: 1) There must be no deposits (scale) in heat-segregating elements. 2) There must be no corrosion in heat-segregating channels. 3) The remanent radioactivity of water must be shortlived and the intensity of radiation must be insignificant. The "washed out" products can be subdivided according to their origin into two groups: 1) The elements washed out of the non-corrosive steel by corrosion: iron, chromium, nickel, and manganese. 2) The elements washed out of the bush-like packings and intermediate layers: calcium, magnesia, and copper. In conclusion the system of biological safety and the gasimetric control of the station is

PA - 2253

Some Problems of the Operation of a Nuclear Electricity Plant. discussed. (6 illustrations).

ASSOCIATION Not given
PRESENTED BY
SUBMITTED: 18.10.1956
AVAILABLE: Library of Congress.

Card 3/3

GRIGOR'YANTS, A.N.

GRIGOR'JANC, A.N.; MEDONOS, S. [translator]

Some problems of atomic power station operation. Jaderna energie 3 no.5:141-147 My '57.

GRIGORYANTS, A.N.

SOME QUESTIONS CONCERNING THE OPERATION OF A NUCLEAR POWER STATION. A. N. Grigoriants. J. Nuclear Energy 5, 377-86(1957).

A discussion is presented of the experience gained in operating the nuclear electric power station of the U.S.S.R. (auth)

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KRASIN, A. K., GRIGORYANTS, A. N., NIKOLAYEV, N. A. and USHAKOV, G. N.

"Operating the First USSR Power Station with the Fuel Channels Working in Boiling Conditions."

paper to be presnented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

SOV/89-5-3-2/15

AUTHORS: Dollezhal', N. A., Krasin, A. K., Aleshchenkov, P. I., Grigor'yants, A. N., Florinskiy, B. V., Minashin, M. Ye., Yemel'yanov, I. Ya., Kugushev, N. M., Sharapov, V. N., Mityayev, Yu. I., Galanin, A. N.

TITLE: A Uranium-Graphite Reactor With Superheating of Steam of High Pressure.I (Uran-grafitovyy reaktor s peregrevom para vysokogo davleniya)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 3, pp. 223-233 (USSR)

ABSTRACT: The 400 MW plant is equipped with 4 uranium-graphite reactors. A reactor and a steam turbine of 100 MW together form a closed block. A number of investigations was carried out for the purpose of checking the individual parts of this block. The following results were obtained:

1) With a thermal flux of $\sim 1.10^6$ kcal/m^2h the steam content by weight at the outlet attains a value of up to 20%.

2) Several hundred hours' uninterrupted operation of a channel in the boiling stage did not disrupt the channel.

3) The activity of the steam condenser was found to be 10 times

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lower than that of the water in the separator.
4) If the content of steam in the steam-water mixture attains 15 - 20%, a pulsation of the consumption of the mixture occurs. From the moment at which the steam mixture passes from the separator into the turbine, pulsation stops and does not occur again in the course of a further increase of the steam phase.
5) During the initial development of the waterlevel in the separator the temperature in the fuel channels fluctuates considerably. As soon as stable conditions are established, these fluctuations cease.
6) The steam-water mixture was not found to be delayed in any of the channels.
From a plurality of varieties the best scheme for the production of superheated steam was selected (see figures). The turbogenerator BK-100 operates with a steam of 90 atm and a temperature of 480 - 535° C.
The following are the physical characteristics of the reactor:

Thermal output	35 MW
Electrical output	100 MW
Average cycle	730 days
Uranium charge	90 tons

A Uranium-Graphite Reactor With Superheating of Steam of High Pressure. I

Uranium enrichment at the beginning of a cycle	1,3 %
Uranium enrichment at the end of a cycle	1,03 %
Breeding ratio at the beginning of a cycle	65 %
Breeding ratio at the end of a cycle	55 %
Amount of U-235 burned-up during a cycle	243 kg
Amount of Pu-239 burned-up during a cycle	55 kg
Amount of Pu-239 and Pu-241 at the end of a cycle	132 kg
Excess reactivity for temperature effect	0,040
Excess reactivity for poisoning	0,015
Excess reactivity for the fuel burn-up and long-lived fission fragments	0,025
Total excess reactivity	0,080

There are 8 figures.

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SOV/89-5-3-3/15

AUTHORS: Dollezhal', N. A., Krasin, A. K., Aleshchenkov, P. I., Grigoryants, A. N., Florinskiy, B. V., Minashin, M. Ye., Yemel'yanov, I. Ya., Kugushev, N. M., Sharapov, V. N., Mityayev, Yu. I., Galanin, A. N.

TITLE: A Uranium-Graphite Reactor With Superheating of Steam of High Pressure. II (Uran-grafitovyy reaktor s peregrevom para vysokogo davleniya) (Continued from abstract 2/15)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 3, pp. 233-244 (USSR)

ABSTRACT: The graphite mantle of the reactor (diameter 9,6 m, height 9 m) is built into a cylindrical steel container. The container is filled with nitrogen in order to prevent burn-up of the graphite. The active zone of the reactor has a diameter of 7,2 m and a height of 6 m. As a lateral reflector graphite of 0,8 m thickness is used. Graphite of 1 m thickness is used as upper reflector, and above it a layer of cast iron having a thickness of 0,5 m is fitted. Together, these components serve as the main - upper biological portion of the / shield. Graphite of 0,6 m thickness is used as lower reflector. In the graphite structure openings for 1154 channels are provided. 730 of them are provided with fuel ele-

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ments which are cooled by means of boiling water and contain up to 33% percentage by weight of steam at the output. 288 channels are cooled by steam which is heated up to the corresponding turbine temperature. Six channels contain the automatic regulating rods, 78 channels are provided for the compensation rods, and 16 for the shim rods. The ionization chambers and counting tubes are located in 36 channels. The fuel channels, the regulating- and shim rods as well as the arrangement of the channels in the active zone are shown in form of drawings. The circuit diagram for the reactor turbine shows the connection between the reactor, the two-stage turbine, two condensers, a system of additional heating of the feed-water, a de-aerator (6 atm), 2 preheaters (for high pressure), condensation- and feed pumps. The water is conveyed into the boiling channels by way of two centrifugal pumps. When entering these channels the water has a temperature of 300° C and a pressure of 155 atm. The mixture of steam and water formed in these channels reaches the separator, where steam and water are separated. From here the water is conveyed to the preheater of the steam generator (which consists of 2 parts), where it is cooled from the saturation temperature of 340° C (pressure in the sep-

A Uranium-Graphite Reactor With Superheating of Steam of High Pressure.II

...eator 150 atm) down to 300° C. Heat is transferred to the ...ed-water of the secondary circuit. The water of this circuit is in the first section of the preheater brought from a temperature of 215° C to saturation temperature, which corresponds to a pressure of 110 atm. In the second part it is evaporized until the quantity of steam corresponding to weight attains 20%. The secondary steam produced in the steam generator is led in to the steam channels of the reactor, where it is heated up to a temperature of 510° C. The steam reaches the turbine with a pressure of 90 atm and a temperature of 500° C. The main building of the electric power plant consists of 4 parts arranged one behind the other, the machine hall, the operation room, the de-aerator, and the reactor hall. For an average cycle of 730 days it is shown by calculation that the cost of atomic kWh are equal to the kWh obtained by means of the usual fuel. Fuel costs amount to from 30 to 40% of the total costs. If the fuel channels and fuel elements operate in a stable manner, it can be proved that by a slight increase of the degree of enrichment in uranium the average cycle can be increased, which leads to a reduction of costs. There are 9 figures and 1 table.

GRIGOR'YANTS, A.N.

21(4) PHASE I BOOK EXPLOITATION SOV/2583

International Conference on the Peaceful Uses of Atomic Engergy. 2nd, Geneva, 1958.

Doklady sovetskikh uchenykh; yadernyye reaktory i yadernaya energetika. (Reports of Soviet Scientists; Nuclear Reactors and Nuclear Power) Moscow, Atomizdat, 1959. 707 p. (Series: Its: Trudy, vol. 2) Errata slip inserted. 8,000 copies printed.

General Eds.: N.A. Dollezhal, Corresponding Member, USSR Academy of Sciences, A.K. Krasin, Doctor of Physical and Mathematical Sciences, A.I. Leypunskiy, Member, Ukrainian SSR Academy of Sciences, I.I. Novikov, Corresponding Member, USSR Academy of Sciences, and V.S. Fursov, Doctor of Physical and Mathematical Sciences; Ed.: A.P. Alyab'yev; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This book is intended for scientists and engineers engaged in reactor designing, as well as for professors and students of higher technical schools where reactor design is taught.

COVERAGE: This is the second volume of a six-volume collection on the peaceful use of atomic energy. The six volumes contain the reports presented by Soviet scientists at the Second International Conference on Peaceful Uses of Atomic Energy, held from September 1 to 13, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants under construction in the Soviet Union; the second to experimental and research reactors, the experiments carried out on them, and the work to improve them; and the third, which is predominantly theoretical, to problems of nuclear reactor physics and construction engineering. Yu. I. Koryakin is the science editor of this volume. See SOV/2081 for titles of all volumes of the set. References appear at the end of the articles.

Dollezhal', N. A., A.K. Krasin, N.A. Nikolayev, A.N. Grigor'yants, and G.N. Ushakov. Experience of Operating the First Atomic Power Plant in the USSR and the Plant's Work Under Boiling Conditions (Report No. 2183) 15

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Ivanovskiy, M.N., V.I. Subbotin, and P.A. Ushakov. High-speed Method of Measuring the Heat Transfer Coefficient in the Pipe (Report No. 2475) 166

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report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

STEKOL'NIKOV, V.V.; GRIGOR'YANTS, A.N.; FANCHENKO, S.D.

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DANILOV, P.P.; GRIGOR'YANTS, A.S., spetsredaktor; PROSTOSERDOV, A.P., redaktor izdatel'stva; DOROVNEV, N.K., tekhnicheskiy redaktor

[Safety manual for scraper operators] Pamiatka po tekhnike bezopasnosti dlia skreperista. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. 21 p. (MLRA 10:7)
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DANILOV, P.P.; GRIGOR'YANTS, A.S., spetsredaktor; PROSTOSERDOV, A.P., redaktor izdatel'stva; BOROVNEV, N.K., tekhnicheskiy redaktor

[Safety manual for operators on caterpillar cranes] Pamiatka po tekhnike bezopasnosti dlia mashinista gusenichnogo krana. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. 22 p. (MLRA 10:7)
(Cranes, derricks, etc.--Safety measures)

GRIGOR'YANTS, A.S.; KUTASOV, G.B.; TARAKAN, N.A.; ROVKAKH, S.Ye., inzhener, nauchnyy redaktor; PERELYGIN, G.M., redaktor izdatel'stva; YUDINA, L.A., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Standard repair enterprises in construction organizations] Tipovye remontnye predpriiatiia stroitel'nykh organizatsii. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1957. 127 p. (MLRA 10:6)

(Building machinery--Maintenance and repair)

GRIGOR'YANTS, Arto Sarkisovich, inzhener; REYSH, Arvid Karpovich, inzhener; STANKOVSKIY, A.P., inzhener, nauchnyy redaktor; TYAPKIN, B.G., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Lubrication of construction machinery] Smazka stroitel'nykh mashin. Moskva, Gos.izd-vo lit-ry po stroit.i arkhit., 1957. 306 p. (MIRA 10:7)

(Building machinery--Lubrication)

AUTHOR: Grigoryants, A.S. and Khaz:n, S.M., Engineers.

TITLE: Reorganisation and improvement of the work of maintenance workshops for building machinery. (Uporyadochit' i Uluchshit' delo remonta stroitel'nykh mashin.)

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction) 1957, Vol. 14, No. 1, pp. 6 - 9 (U.S.S.R.)

ABSTRACT: The ineffective use of building machinery by building organisations is criticised. Machine repairs and maintenance in relation to working time is analysed and tabulated for the first 9 months of 1956. Apart from repairs and maintenance these workshops very often carry out the design of new tools and machinery. Workshops devoting only part of their time to maintenance are e.g. Kuibyshev (13 1/2%) RizhskoiRMZ (13.3%), Tashkent ARMZ (37.5%) etc. At present workshops are engaged in the production of non-standard equipment for transportation, building equipment, metal structures, etc. It is proposed that all activities which are not connected directly with the maintenance of building machinery should be discontinued. The specialisation of maintenance workshops, reorganisation and decentralisation of servicing is recommended. The GOSSTROI SSSR proposed the following scheme for the reorganisation of regional maintenance workshops (Raionnie Remontno-Mekhanicheskie Zavody - RRMZ): RRMZ for excavators and cranes; RRMZ for building and road-building machinery; RRMZ for

SITKOVSKIY, P.A.; KOMAROV, G.V.; BRUSENTSEV, V.F.; KREMENETSKIY, N.N.; MAMAYEV, M.G., kand.tekhn.nauk; SMIRNOV, A.V., kand.tekhn.nauk; AFANAS'YEV, I.V.; VOLOD'KO, I.F., kand.tekhn.nauk; BEGLYAROV, S.A.; KONDRAT'YEV, V.V.; KARLINSKAYA, M.I.; NIKOLAYEV, M.I., kand.tekhn. nauk; DOROKHOV, S.M.; PISHCHUROV, P.V.; KLIMENTOVA, A.V.; BOZENBLAT, Zh.I.; PANDEYEV, V.V., kand.tekhn.nauk; KULIKOV, P.Ye.; SHIMANOVICH, S.V.; DELITSIN, M.V., retsenzent; BRAUDE, I.D., retsenzent; BARYSHEV, A.M., retsenzent; GRIGORYANTS, R.S., retsenzent; IGNATYUK, G.L., retsenzent; KALABUGIN, A.Ya., retsenzent; KREMENETSKIY, N.D., retsenzent; POPOV, K.V., retsenzent; ORLOVA, V.P., red.; LETNEV, V.Ya., red.; SOKOLOVA, N.N., tekhn.red.; FEDOTOVA, A.F., tekhn.red.

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(Hydraulic engineering) (Agricultural engineering)

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[Handbook on the consumption of spare parts and materials in operating and repairing building and road machinery] Spravochnik po raskhodu zapasnykh chastei i materialov dlia ekspluatatsii i remonta stroitel'nykh i dorozhnykh mashin. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 399 p. (MIRA 14:10)
(Building machinery--Maintenance and repair)
(Road machinery--Maintenance and repair)

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Organizing machinery repair centers in economic regions. Mekh. stroi. 18 no. 1:17-19 Ja '61. (MIRA 14:2)

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(Building machinery--Maintenance and repair)

GRIGOR'YANTS, A.S., inzh.; MALOLETKOV, Ye.K., inzh.

Improving the use of construction and road machinery at enterprises of the Ministry of the Construction of Electric Power Stations of the U.S.S.R. Energ. stroi. no.27:86-88 '62.
(MIRA 15:9)

1. Gosstroy SSSR (for Grigor'yants). 2. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Maloletkov).
(Construction equipment) (Road machinery)

GRIGOR'YANTS, B. V.

GRIGOR'YANTS, B. V.: "Tectonic relations of the folded zones of the Greater Caucasus and the Apsheron area". Baku, 19[illegible]. Publishing House of the Acad Sci Azerbaydzhan SSR. Acad Sci Azerbaydzhan SSR. Inst of Geology imeni Academician I. M. Gubkin. (Dissertations for the Degree of Candidate of Geological-Mineralogical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December 1955. Moscow.

GRIGOR'YANTS, B.V.

USSR/ Geology - Caucasin

Card 1/1 Pub. 46 - 7/21

Authors : Khain, V. Ye.; Shardanov, A. N.; Solov'yev, V. F.; and Grigor'yants, B. V.

Title : The tectonic position of the Apsheron peninsula in the system of Greater Caucasia

Periodical : Izv. AN SSSR. Ser. geol. 1, 80-92, Jan-Feb 1955

Abstract : Basing their considerations on the comparison of already known new factual geological material obtained in recent years, the authors analyze the question of the tectonic position of the Apsheron peninsula in the system of Greater Caucasia and arrive at the conclusion that it lies within the limits of the eastern boundary of the zone of the southern slope of Greater Caucasia. Eighteen references: 17 USSR and 1 German (1864-1953). Maps.

Institution : .....

Submitted : February 17, 1954

SHARDANOV, A. N.;GRIGOR'YANTS, B.V.;MURADYAN, V.M.

New data on breaks and unconformities within the Paleogene in southeastern Caucasus. Izv.AN Azerb.SSR. no.9:27-37 S '55. (Caucasus--Geology) (MLRA 9:1)

GRIGOR'YANTS, B.V.

Paleogene-Miocene structural plan of the Apsheron oil province. Dokl.AN Azerb. SSR 11 no.10:703-708 '55. (MLRA 9:2)

1.Institut geologii imeni I.M.Gubkina AN Azerbaydzhanskoy SSR. Predstavlene deystvitel'nym chlenom AN Azerbayzhanskoy SSR Sh.A. Arizbekovym.
(Apsheron Peninsula--Geology, Structural)

GRIGOR'YANTS, B.V.

Structural profile of the Pliocene-anthropogenic stage of the Apsheron region. Azerb.neft.khoz. 35 no.8:1-3 Ag '56.
(MLRA 9:10)

(Apsheron Peninsula--Geology, Structural)

GRIGOR'YANTS, B.V.; KHAYN, V.Ye.

Mechanism of the change in the pattern of folds. Geolnefti 1 no.10:20-27 O '57. (MIRA 10:10)
(Apsheron Peninsula--Folds (Geology))

AUTHOR: Agabekov, M.G. and Grigor'yants, B.V. 11-10-9/23

TITLE: Southward Migration of Central Elevations of South-Eastern Caucasus (Areas of the Apsheron Peninsula) (Migratsiya tsentral'nogo podnyatiya yugo-vostochnogo Kavkaza v yuzhnom napravlenii) (V predelakh Apsheronskoy oblasti)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957, # 10, p 85-94 (USSR)

ABSTRACT: The majority of explorers of the Apsheron peninsula are of the opinion that the peninsula presents a direct continuation of the Bol'shoy Caucasus in its geological structure. Geologic studies have disclosed that the formations of the Caucasus consist basically of Mesozoic (Jurassic and Cretaceous) and Paleogene deposits. At the same time, deposits of Pliocene were found to predominate in areas accessible to drilling operations. Sediments of the Miocene and partly Paleogene epochs were discovered only in central parts of north-western Apsheron. Essential differences of the orientation of folds are: in the south-eastern sections of the Caucasus the folds are arranged in latitudinal direction, whereas the folds of the Apsheron peninsula are gravitating towards the meridian. Many explorers support the theory of direct geogenetical connections existing

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Southward Migration of Central Elevations of South-Eastern Caucasus (Areas of the Apsheron Peninsula)

between the Apsheron peninsula and the Bol'shoy Caucasus. This view has recently been substantiated by gravimetrical and seismic measurements. Some of the characteristic features of geologic history have to be examined in order to clarify the relation of the Apsheron peninsula to the central elevation of the south-eastern Caucasus. During the period of sedimentation of the Upper Jurassic period, the south-eastern Caucasus was completely inundated. Of great interest is the fact that the area of water erosion was largest during the Paleocene period, and noticeably diminished during the Eocene, the Ologocene and especially during the Lower Miocene periods, whereby all layers of the Paleogene cover each other transgressively. Exact analysis of the factual tectonic data permits to conclude that the Caspian depression proceeds in a meridional direction, and, in connection with recent tectonic movements, was succeeded by a lowering of the area of central elevation of the south-eastern immersion of the Bol'shoy Caucasus. Simultaneously with the immersion of the central elevated section, in the southern district of the Apsheron peninsula, a process of gradual rising

Southward Migration of Central Elevations of South-Eastern Caucasus (Areas of the Apsheron Peninsula)

takes place. This prolonged conflicting process of lifting in conjunction with folding created favorable conditions for migration of the central elevation of south-eastern Caucasus, which, in consequence, brought about a migration of dry land from north to south.
There are 1 figure, 3 maps and 10 references, all Slavic (Russian).

ASSOCIATION: Institute of Geology of the Academy of Sciences of the Azerbaydzhan SSR, Baku (Institut geologi AN Azerbaydzhanskoy SSR, g. Baku)

SUBMITTED: 20 September 1956

AVAILAELE: Library of Congress

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GRIGOR'YANTS, B.V.; KHAIN, V.Ye.

Overlying folds in geosynclinal provinces and their formation. Izv. vys. ucheb. zav.; geol. i razv. 1 no.12:3-16 D '58. (MIRA 12:12)

1.Institut geologii AN AzerSSR, i Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Folds (Geology))

GRIGOR'YANTS, B.V.

Position of the central upland in the southeastern Caucasus.
Izv.AN Azerb.SSR. Ser.geol.-geog.nauk no.2:81-93 '58.
(MIRA 11:12)

(Caucasus--Geology, Structural)

ISMAILOV, K.A.; GRIGOR'YANTS, B.V.; AKHMEDBEYLI, F.S.

Oil and gas potentials in Mesozoic sediments of the southeastern Caucasus. Izv.AN Azerb.SSR.Ser.geol.-geog.nauk no.5:3-13 '58. (MIRA 11:12)

(Caucasus--Petroleum geology) (Caucasus--Gas, Natural--Geology)

GRIGOR'YANTS, B.V.; MURADYAN, V.M.

Oil-bearing prospects of Cretaceous sediments in the northwestern part of Kobystan. Azerb. neft. khoz. 37 no.5:6-8 My '58.
(Kobystan--Petroleum geology) (MIRA 11:8)

GRIGOR'YANTS, B.V.; ALIYEV, Kh.Sh.

Transition from the Jurassic to the Cretaceous in the southeastern Caucasus. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.1:29-37 '60. (MIRA 13:11)

(Caucasus--Geology, Stratigraphic)

DZHAFAROV, E.M.; GRIGOR'YANTS, B.V.

New find of vein rocks in the Belokany ore zone. Uch. zap. AGU. Ser. geol. geog. nauk no.1:25-31 '61. (MIRA 16:8)

GRIGOR'YANTS, B.V.; SHURYGIN, A.M.

Sukhyub cliff in the southeastern Caucasus. Uch.zap.AGU.Ser.gool.-geog.nauk no.5:95-99 '61. (MIRA 16:9)

GRIGOR'YANTS, B.V. Prinimal uchastiye KHAIN, V.Ye., prof.;
BAGDATLISHVILI, D., red. izd-va; ISMAYLOV, T., tekhn. red.

[Tectonic relationship between fold zones of the Greater Caucasus and Apsheron region] Tektonicheskie sootnosheniia skladchatykh zon Bol'shogo Kavkaza i Apsheronskoi oblasti. Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR, 1962. 190 p. (MIRA 15:5)
(Caucasus--Folds (Geology))
(Apsheron Peninsula region--Folds (Geology))

GRIGOR'YANTS, B.V.; TAMRAZYAN, G.P.

Subsurface extension of the Kechaldag fold within the boundaries of the Baku syncline and its oil and gas potentials. Izv.AN Azerb.SSR Ser.geol.-geog.nauk i nefti no.3:23-31 '62. (MIRA 15:12)

(Apsheron peninsula--Petroleum geology)
(Apsheron peninsula--Gas, Natural--Geology)

GRIGOR'YANTS, B.V.

Tectonics of sediments underlying producing formations.
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(Geology, Structural)
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GRIGOR'YANTS, B.V.

Some problems of the geological interpretation of local gravity anomalies. Izv. vys. ucheb. zav.; geol. i razv. 6 no.2:108-117 F '63. (MIRA 16:6)

1. Institut geologii AN Azerbaydzhanskoy SSR.
(Gravity anomalies)

GRIGOR'YANTS, B.V.

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BOGOLYUBOV, B. P., prof.; YUMATOV, B. P., dotsent; KHODINOV, A. S., gornyy inzhener; GRIGORYANTS, E. A., inzh.; KORGUN, I. K., inzh.; KURKOV, P. A., inzh.; YAKIMENKO, N. D.

Determination of the thickness of roofs in open-cut mining of areas where there are old underground workings. Gor. zhur. no.11:21-23 N '62. (MIRA 15:10)

1. Moskovskiy institut stali i splavov (for Bogolyubov, Yumatov, Khodinov). 2. Noril'skiy gorno-metallurgicheskiy kombinat (for Grigoryants, Korgun, Kurkov, Yakimenko).

(Nikopol' region—Mining engineering)

ZVER'KOV, S.N., gornyy inzh.; STEPASHKO, A.P., gornyy inzh.; GRIGOR'YANTS, E.A., gornyy inzh.

Improving the technology of boring and blasting operations at Noril'sk Combine strip mines. Gor. zhur. no.6:11-16 Je '66

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SADOVSKIY, G.I.; PAKHOMOV, A.S.; SHABLYGIN, A.I.; DOROKHOV, M.I.; ZAYDMAN, L.A.; GRIGORYANTS, E.L.; VILLEM, E.Yu.

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(Noril'sk region--Mining engineering)

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(Telephone--Handbooks, manuals, etc.)

MAKSIMOV, Aleksey Georgiyevich; MOLOKOV, Vladimir Nikolayevich; OZARNYY, I.N., retsenzent; GRIGOR'YANTS, G.M., red.; SOBOLEVA, Ye.M., tekhn. red.

[Choice of site for a thermal electric power plant; engineering and economic considerations] Vybor ploshchadki dlia teplovoi elektrostantsii; tekhniko-ekonomicheskie obosnovaniia. Moskva, Gos. energoizdat, 1962. 173 p. (MIRA 15:4)
(Electric power plants)

GRIGOR'YANTS, Georgiy Mironovich; GERASIMOV, V.N., prof., retsenzent; ERLIKH, V.A., red.; SOBOLEVA, Ye.M., tekhn. red

[Problems of the design and economics of the construction of thermal electric power plants; principal means for decreasing costs and shortening the construction time] Voprosy proektirovaniia i ekonomiki stroitel'stva teplovykh elektrostantsii; osnovnye puti snizheniia stoimosti i sokrashcheniia srokov stroitel'stva. Moskva, Gosenergoizdat, 1963. 314 p. (MIRA 17.4)

VRUBLEVSKIY, A.V.; GRIGOR'YANTS, G.N.; ZHUKOV, D.P.; KNYAZHITSKIY, B.M.
KARUS', A.P., inzhener-mayor, redaktor; SOKOLOVA, G.F., tekhnicheskiy redaktor.

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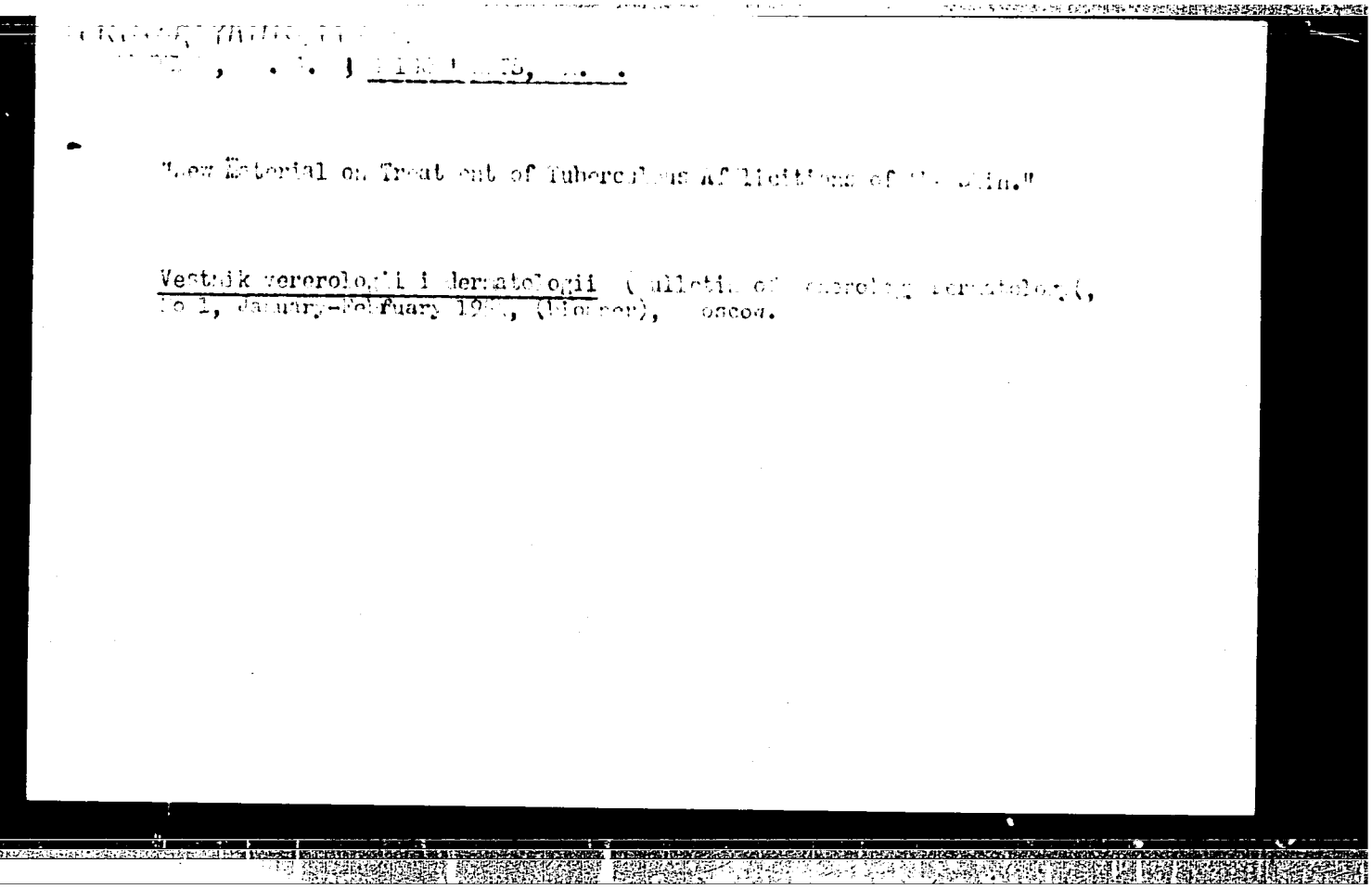

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