MIZYUMSKIY, I.A.

Testing the performance of flange joints of welded girders at low temperatures. Nauch.dokl.vys.shkoly; stroi. no.1:147-152 '59. (MIRA 12:10)

1. Rekomendovana kafedroy metallicheskikh konstruktsiy Leningradskogo inzhenerno-stroitel'nogo instituta.
(Girders)

MIZYUMSKIY, I.A., inzh.

Strength of joints of trussed girders. Prom.strci. 37 no.12: 50-51 D '59. (MIRA 13:4)
(Girders)

MIZYUMSKIY, I. A., Cand Tech Sci -- (diss) "Accidents and collapses of steel constructions and an investigation into the causes of the breakdown of welded corner joints." Leningrad, 1960. 16 pp with illustrations; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Order of Labor Red Banner Construction Engineering Inst, Chair of Construction Metallurgy); 250 copies; price not given; (KL, 18-60, 152)

[illegible]IY, [illegible] A.

"The Determi[illegible] of [illegible] Pressure Act[illegible] pon Tunnel Walls." Cand Tech Sci, Leningrad Inst of Railroad Transport Engineers, Leningrad, 19[illegible]. ([illegible], Mar [illegible])

SO: Sum. No. [illegible]20, [illegible] Sep [illegible] --Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions [illegible]

SOV 124-58-1-1048

Translation from Referativnyy zhurnal, Mekhanika 1958, Nr 1, p 138 (USSR)

AUTHOR: Mizyumskiy V A.

TITLE: Experimental Method for the Determination of Earth Pressure in Tunnels (Eksperimental'nyy sposob opredeleniya davleniya porod v tonnelyakh)

PERIODICAL: V sb: Vopr geotekhnik Moscow Transzheldorizdat 1956, pp 165-184

ABSTRACT: The author proposes to measure experimentally the stresses occurring at several points of temporary timbering in underground workings and thereby to determine the earth pressure distribution along the caps of tunnel sets, along longitudinal inter-set braces, etc In metal tunnel supports and cast-iron tunnel linings the author recommends determining the strain and from it the stress, by means of resistance strain gages. The requirements for such gages are especially stringent since they may have to operate under extremely unfavorable circumstances underground The author illustrates two cases of experimental investigations performed by him in the determination of the magnitude of vertical earth pressure In the first test the experiments were made

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on two steel I-beam tunnel set caps with an upper span of 3 m; the second test applied to two lengths of circular iron lining for a public utility tunnel with an outer diameter of 2.4 m This tunnel was laid at a depth of 16.5 m in very low-strength varved clays It is pointed out that in the determination of earth pressures on temporary timbering the method examined in the paper does not afford any particular advantages over the well known method of measurement by means of post dynamometers whereas in the measurement of earth pressures on a permanent tunnel lining the resistance strain-gage method proposed in the paper exhibits a number of advantageous qualities

S S Davydov

Card 2/2

GOL'DSHTEYN, M.N., doktor tekhn. nauk; MIZYUMSKIY, V.A., kand. tekhn. nauk

Effect of soil creep on earth pressure. Transp. stroi. 9 no.4:42-44 Ap '59. (MIRA 12:6)
(Soil mechanics)

KHLEBNIKOV, I.A., dotsent, kand.tekhn.nauk; MIZYUMSKIY, V.A., dotsent, kand. tekhn.nauk

Determining the coefficient of suction and capacity of wellpoints by the mixing method. Trudy LIIZHT no.165:179-183 '59. (MIRA 13:6)

(Drainage--Equipment and supply)

GOL'DSHTEYN, M. N.; BABITSKAYA, S. .; MIZYURSKIY, V. A.

Method of testing soils for creep and lasting stability.
Vop geotekh no. 5:93-120 '62. (MIRA 17:5)

MIZYUMSKIY, V.A., kand.tekhn.nauk

Criterion for evaluating the degree of stability of clayey s
Transp. stroi. 12 no.4:43-44 Ap '62. (MIRA
(Clay--Testing) (Tunnels)

MIZYUMSKIY, V.A., kand. tekhn. nauk

Deformations and stresses of precast tunnel linings with joint bonding. Trans. stroi. 15 no.9:45-46 S '65.
(MIRA 18:11)

MIZYURIN, M.; KUCHINSKIY, Ya.

Tape tensioning mechanism with three electric motors. Radio no.4:34-36 Ap '60. (MIRA 13:8)
(Magnetic recorders and recording)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134810013-9

[illegible] E.; [illegible]TINO, [illegible] I. (Cand. Tech. Sci.)

"Stabilisation of Speed of Electric Drive on Direct Current,"

paper read at the Session of the Acad. Sci. [illegible], on Scientific Problems of Automatic Production, 15-20 October [illegible].

Avtomatika i telemekhanika, No. [illegible], [illegible]-19[illegible], 19[illegible].

001[illegible]

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134810013-9"

3(3,5) PHASE I BOOK EXPLOITATION SOV/31[illegible]

Moscow. Aviatsionnyy institut

Nekotoryye voprosy teorii raboty aviatsionnykh elektricheskikh mashin; sbornik statey (Some Problems in the Theory of Operation of Aircraft Electric Machines; Collection of Articles) Moscow, Oborongiz, 1959. 125 p. (Series: Its: Trudy, vyp. 110) [illegible] copies printed.

Ed. A. I. Bertinov, Professor; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: V. P. Rozhin; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for engineering and technical workers and students taking advanced courses in electrical machine construction.

COVERAGE: The book contains several articles on the theory and design of special electrical machines, such as: three-winding, bilateral feed transformers (phase discriminator), induction motors with copper-plated ferromagnetic rotor, shielded induction

Card 1/5

Some Problems in the Theory (Cont.) SOV/3185

motors with copper-plated ferromagnetic rotor and general purpose electrical machines for aircraft. In addition, systems for the stabilization of the frequency of aircraft inverted synchronous converters and their protection are studied. A purportedly new way of speed regulation of induction motors is also examined. References are given after each article.

TABLE OF CONTENTS:

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AVAILABLE Library of Congress

Card 5/5

AC/os
3/22/60

MIZYURIN, S.R., kand.tekhn.nauk; KUZNETSOV, Ye.A.; MAYOROV, S.V.

Reciprocating parametric motor. Trudy MAI no.133:113-119 '61.
(MIRA 14:5)

(Electric motors)

ACCESSION NR: AP4018289 S/0144/64/000/001/0034/0042

AUTHOR: Bertinov, A. I.; Mizyurin, S. R.; Avetisyan, D. A.

TITLE: Dynamics of inverters supplied by a source of commensurable power

SOURCE: IVUZ. Elektromekhanika, no. 1, 1964, 34-42

TOPIC TAGS: inverter, dc ac inverter, aircraft dc ac inverter, aircraft inverter dynamics, inverter supplied by weak source

ABSTRACT: Dc-ac inverters used in aviation and rocketry are often supplied by a source whose power is comparable to that of the inverter. This fact may affect the inverter's automatic voltage and frequency controls. Hence, the dynamic behavior of the system source-inverter is theoretically analyzed in the article; two independent controllers are assumed to be operating in the system (see Enclosure 1). These conclusions are offered: (1) Two reasons may be responsible for the unstable operation of the inverter: (a) half number of the

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ACCESSION NR: AP4018289

commutating poles in the generator which may bring about a positive connection between the generator voltage and the motor current, resulting in the system h-f cycling; (b) the positive feedback in the motor-control system which grows with the load; this may result in the system l-f cycling; (2) With a specified supply source having its own voltage regulator, the system stability may be somewhat enhanced by selecting motor parameters on the basis of the stability conditions given in the article; (3) Generally, the power source impairs the inverter stability; hence, an autonomous control system for the inverter is desirable. Orig. art. has: 4 figures and 15 formulas.

ASSOCIATION: MAI (Moscow Aviation Institute)

SUBMITTED: 17Feb62 DATE ACQ: 23Mar64 ENCL: 01

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

Card 2/3

BERTINOV, A.I., doktor tekhn. nauk, prof.; VARLEY, V.V., inzh.; MIZYURIN, S.R., kand. tekhn. nauk

Principal design equations of an electrical machine with rolling rotor. Elektrotekhnika 35 no.6:38-41 Je '64. (MIRA 17:8)

AVETISYAN, Dzh.A.; BERTINOV, A.I.; MIZYURIN, S.R.

Effect of the load on the voltage regulation stability of a synchronous generator in an automomous system. Elektrichestvo no.7:57-60 Jl '64. (MIRA 17:11)

1. Moskovskiy aviatsionnyy institut.

[illegible]T[illegible], [illegible].I. (Moskva); [illegible], V.[illegible] (Moskva); [illegible]

[illegible]lectro[illegible] forces in a motor with [illegible] [illegible]tor. Elektrichestvo no.8:58-6[illegible] [illegible] '64. [illegible]

AVETI[illegible], [illegible], kand. tekhn. nauk; MI[illegible]YURIN, S.R., kand. tekhn. nauk

[illegible] [illegible] of the parameters of precision-type controllers of the angular velocity of d.c. motors. Elektrotekhnika 36 no.7:22-26 Jl '65. (MIRA 18:7)

MIZYUKOV, Yu.

Use of multipurpose attachments with interchangeable parts in plants of the capital. Mashinostroitel' no.5:37-39 My '60. (MIRA 14:5)

1. Glavnyy inzhener upravleniya mezhotraslevykh predpriyatiy Mosgorsovnarkhoza.
(Moscow—Interchangeable mechanisms)

MIZYUTIN, G.

Active workers in social insurance are a great force. Okhr. truda i sots.strakh. no.7:25-28 Jl '59. (MIRA 12:11)

1. Zaveduyushchiy otdelom sotsial'nogo strakhovaniya Kuybyshevskogo sovprofa, g.Kuybyshev.
(Insurance, Social--Employees)

MOISEYENKO, A.T., inzh.; MOSKALEV, N.M., kand. tekhn. nauk; KOSHKIN, V.G., kand. tekhn. nauk; MKERVALI, G.P., inzh., red.; D'YACHKOV, G.D., inzh., red.; YEVDOKIMOV, V.M., inzh., red.; STRASHNYKH, V.P., red. izd-va; MOLCHALINA, Z.S., tekhn. red.; BOROVNEV, N.K., tekhn. red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroiizdat. Pt.1. Sec.B. ch.3. [Fundations and supports of piles and cylindrical shels; precast construction (SNiP I-B.3-62)] Fundamenty i opory iz svai i tsilindricheskikh obolochek; sbornye konstruktsii SNiP I-B.3-62). 1963. 7 p. Pt.1. Sec.V. ch.15. [Polymer-base materials and products (SNiP I-V.15-62)] Materialy i izdeliia na osnove polimerov (SNiP I-V.15-62). 1963. 26 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Mkervali, Moiseyenko). 3. Mezhduvedomstvennaya komissiya po peresmotru stroitel'nykh norm i pravil (for D'yachkov, Moskalev). 4. Gosudarstvennyy institut po proyektirovaniyu osnovaniy i fundamentov "Fundamentproyekt" Ministerstva stroitel'stva RSFSR (for Yevdokimov). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Koshkin).
(Concrete piling) (Polymers)

KOBETS, M.; IVANOV, N.; LEDER, N., neshtatnyy korrespondent (Murmansk); MKERVALISHVILI, V. (Batumi); MORGAVTSOV, L., inzh.

From the mailbox. Mest.prom. i khud.promys. 4 no.3:38 Mr '63. (MIRA 16:4)

1. Direktor gorodskogo prombytkombinata, Biysk, Altayskogo kray (for Kobets). 2. Mogilevskoye oblastnoye upravleniye mestnoy promyshlennosti, Belorusskoy SSR (for Morgavtsov).
(Efficiency, Industrial)

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MKHCHIYAN, G. KH.

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MKHCHIYAN, M.A

21(4) PHASE I BOOK EXPLOITATION SOV/1441

Pavlova, S.N., Z.V. Driatskaya, Z.N. Baranova, M.A. Mkhchiyan, N.M. Zhmykhova, and S.V. Zavershinskaya.

Nefti vostochnykh rayonov SSSR; spravochnaya kniga (Oils of Eastern Regions of the USSR; a Handbook) Leningrad, Gostoptekhizdat, 1958. 506 p. 1,000 copies printed.

Sponsoring Agencies: USSR Gosudarstvennyy planovy komitet, Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i poluchen iyu iskusstvennogo zhidkogo topliva.

Eds.: Pavlova, S.N.; and Z.V. Driatskaya; Executive Ed.: Ragina, G.M.; Tech. Ed.: Yashchurzhinskaya, A.B.

PURPOSE: This handbook is intended for petroleum production personnel, refiners, scientific research organizations, as well as students

Card 1/22

MKHCHIYAN, M.A.

28

PHASE I BOOK EXPLOITATION SOV/6246

Soveshchaniye po tseolitam. 1st, Leningrad, 1961.

Sinteticheskiye tseolity; polucheniye, issledovaniye i primeneniye (Synthetic Zeolites: Production, Investigation, and Use). Moscow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady) Errata slip inserted. 2500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Komisiya po tseolitam.

Resp. Eds.: M. M. Dubinin, Academician and V. V. Serpinskiy, Doctor of Chemical Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'.

PURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic zeolites (molecular sieves), and for chemists in general.

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Synthetic Zeolites: (Cont.) SOV/6246

COVERAGE: The book is a collection of reports presented at the First Conference on Zeolites, held in Leningrad 16 through 19 March 1961 at the Leningrad Technological Institute imeni Lensovet, and is purportedly the first monograph on this subject. The reports are grouped into 3 subject areas: 1) theoretical problems of adsorption on various types of zeolites and methods for their investigation, 2) the production of zeolites, and 3) application of zeolites. No personalities are mentioned. References follow individual articles.

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SOV/6246

Synthetic Zeolites: (Cont.)

Card 11/12

PAVLOVA, S.N.; DRIATSKAYA, Z.V.; MKHCHIYAN, M.A.

Crude oils of the Mangyshlak Peninsula. Khim. i tekh. topl. i masel 8 no.6:1-7 Je '63. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.
(Mangyshlak Peninsula—Petroleum—Analysis)

L 16926-65 EWT(m)/EPF(c)/T Pr-4 WE

ACCESSION NR: AP5002732 S/0065/64/000/007/0012/0018

AUTHOR: Mkhchiyan, M. A.; Driatskaya, Z. V.; Pavlova, S. N.

TITLE: Petroleum of the Markovskiy deposit

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 7, 1964, 12-18

TOPIC TAGS: crude petroleum, sulfur, petroleum refinery product, hydrocarbon

ABSTRACT: The article presents a complete characterization of Markovskiy crude, a light-brown, free-flowing liquid, possessing a sharp unpleasnat odor, due to its content of sulfur compounds, chiefly mercaptans (0.89% sulfur). A complete physico-chemical characterization of the crude is presented; the contents of aromatic, naphthenic, and aliphatic hydrocarbons in the various temperature fractions are summarized. The sulfur content of Markovskiy crude is compared with crudes of other deposits. Boiling points and percent yields are summarized for seven normal paraffins, 16 isoparaffins, seven naphthenic hydrocarbons (five-membered), three naphthenic hydrocarbons (six-membered), and four aromatic hydrocarbons. The diesel fractions, mazut]

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L 16926-65

ACCESSION NR: AP5002732

grades, kerosene and oil fractions, dewaxed oil fractions, and the residue and mixtures of hydrocarbons isolated by adsorption separation of the residue, are characterized. Orig. art. has 8 tables.

ASSOCIATION: VNIINP

SUBMITTED: 00 ENCL: 00 SUB CODE: FP

NO REF SOV: 000 OTHER: 000 JPRS

Card 2/2

ACCESSION NR: AP4033098 S/0120/64/000/002/0019/0021

AUTHOR: Demirkhanov, R. A.; Poroshin, O. F.; Belensov, P. Ye.; Mkheidze, G. P.

TITLE: Heavy-current injector of hydrogen ions

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 19-21

TOPIC TAGS: injection, ion injection, hydrogen ion injection, heavy current ion injection

ABSTRACT: A new hydrogen-ion injector (whose development is claimed to have been completed in 1959) operates continuously at a drawing voltage 50 kv or lower. The system uses a magnetic-type arc plasma source with oscillating electrons. The following operating data is reported: ion-beam current, 275 ma at 45 kv (drawing); beam diameter at 250 cm from the source, 5 cm; aperture of the converging beam, 2.5×10^{-2}; beam directivity, 7 acm^{-2}; current of the h-v

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ACCESSION NR: AP4033098

source, 500 ma; gas pressure in the source in the cathode region, 3×10^{-2} torr; same, in the "intermediate-electrode-anode" region, 6×10^{-2} torr; arc voltage, 220 v; arc current, 12 amp; magnetic field of the source, 600 oerst; magnetic field of the principal focusing lens, 1,500 oerst; magnetic field of the auxiliary lens, 220 oerst. "The authors thank Yu. V. Kursanov, T. I. Gutkin, N. I. Leont'yev, and G. I. Bolislavskaya for their participation in the initial phase of the project; I. A. Chukhin for design work; and A. M. Abzianidze, A. A. Kolodub, and S. I. Filatov for their practical help with the project." Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Fiziko-tekhnicheskiy institut GKAE SSSR (Physico-Technical Institute, GKAE SSSR)

SUBMITTED: 28Apr63 DATE ACQ: 11May64 ENCL: 00

SUB CODE: NS NO REF SOV: 003 OTHER: 002

Card 2/2

MKHEIDZE, P.A.

Technic of artificial pneumoperitoneum. Prob.tuberk., Moskva no.2:72 Mr-Ap '50. (CLML 19:3)

1. Of the Georgian Scientific-Research Tuberculosis Institute (Director-- A.I.Ushveridze; Head of the Division of Thoracic Surgery -- P.A.Mkheidze).

MKHEIDZE, P.A., kandidat meditsinskikh nauk

Partial cavernectomy in giant caverns of the upper pulmonary lobes. Probl. tub. no. 3:55-56 My-Je '54. (MLRA 7:11)

1. Iz khirurgicheskogo otdeleniya (zav. P.A.Mkheidze) Nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya Gruzinskoy SSR (dir. dotsent A.I.Ushveridze)
(TUBERCULOSIS, PULMONARY, surgery, cavernostomy)

MKHAIDZE, P.A.; MIKHINA, I.B.

Exercise therapy recommended for tuberculous patients between stages of thoracoplasty. Probl. tub. no.5:45-50 S-O '54. (MLRA 7:12)

1. Iz legochno-khirurgicheskogo otdeleniya (zav. kandidat meditsinskikh nauk P.A.Mkheidze) Respublikanskogo nauchno-issledovatel'skogo instituta Ministerstva zdravookhraneniya Gruzinskoy SSR (dir. dotsent A.I.Ushveridze)
(COLLAPSE THERAPY, thoracoplasty, exercise ther. between stages)
(EXERCISE THERAPY, in thoracoplasty between stages)

MKHEIDZE, P.A., kandidat meditsinskikh nauk

Technic of one-stage superior extended thoracoplasty. Khirurgiia no.12:46-48 D' 55. (MLRA 9:7)

1. Iz khirurgicheskogo otdeleniya (zav.-P.A.Mkheidze) Nauchno-issledovatel'skogo instituta tuberkuleza (dir. dotsent A.I.Ushveridze) Ministerstva zdravookhraneniya Gruzinskoy SSR.

(THORAX, surg.
thoracoplasty, one-stage superior extended)

MKHEIDZE, P.A., starshiy nauchnyy sotrudnik

Modification of two-stage apical dilated thoracoplasty. Probl. tub. 34 no.3:45-47 My-Je '56. (MLRA 9:11)

1. Iz legochno-khirurgicheskogo otdeleniya (zav. - P.A.Mkheidze) Nauchno-issledovatel'skogo respublikanskogo tuberkuleznogo instituta Ministerstva zdravookhraneniya Gruzinskoy SSSR (dir. A.I.Ushveridze)

(COLLAPSE THERAPY
thoracoplasty, two-stage modified)

MKHEIDZE, P.A.; MIKHINA, I.B.

Use of exercise therapy in fibrous and cavernous pulmonary tuberculosis after thoracoplasty at the Abastumani Health Resort. Vop. kur., fizioter. i lech. fiz. kul't. no.6:552-554 '63. (MIRA 17:8)

1. Iz legochno-khirurgicheskogo otdeleniya (zav. - kand. med. nauk P.A. Mkheidze) Instituta tuberkuleza Ministerstva zdravookhraneniya Gruzinskoy SSR (dir. O.G. Batiashvili).

SOV 147-58-2-25/34

Translation from: Referativnyy zhurnal Metallurgiya, 1958, Nr 2, p 74 (USSR)

AUTHORS: Khukhunavshvili, I. A., Mkheidze, T. A., Suladze, M. A.

TITLE: Investigation of the Feasibility of Concentration of the Mercury Ore From the "Akheiskiy" Deposit (Issledovaniye obogatimosti rtutnoy rudy Akheyskogo mestorozhdeniya)

PERIODICAL: Tr. Gruz. politekhn. in-t, 1958, Nr 2 (59), pp 177-184

ABSTRACT: As a result of the investigation the authors developed and recommended a qualitative procedure proposing the partial flotation of HgS by means of the OP-10 reagent and four consecutive refining operations for the initial concentrate without adding reagents. The finished concentrate contains 29% Hg, the yield of concentrate is 0.26%, the yield of metal from the concentrate is 96.9%, the concentration factor is 372.

M. M.

Card 1/1

MKHEIDZE, T.

Dept. at Tbilisi State U.

Dissertation for degree of Candidate Biological Sciences

MKHEIDZE, T.; KALANDADZE, L.P., chlen-korrespondent.

New species of harvestmen, Opiliones, from Georgia. Soob.AN Gruz.SSR 13 no.9:545-548 '52. (MLRA 6:5)

1. Tbilisskiy Gosudarstvennyy universitet im.Stalina (for Mkheidze).
2. Akademiya Nauk Gruzinskoy SSR (for Kalandadze).
(Georgia--Harvestmen (Opiliones))

MKHEIDZE, T.S.; KALANDADZE, L.P., chlen-korrespondent.

New species of Opiliones from Georgia. Soob.AN Gruz.SSR 13 no.10:613-616 '52. (MLRA 6:5)

1. Tbilisskiy gosudarstvennyy universitet im. Stalina (for Mkheidze).
2. Akademiya Nauk Gruzinskoy SSR (for Kalandadze). (Georgia--Opiliones)

MKHEIDZE, V.N., inzh.; VAYNSHTEYN, B.Z., inzh.

Means for increasing the operational reliability of electrical equipment. Vest. ekeltroprom. 34 no.3:50-51 Mr '63. (MIRA 16:8)

(Electric industries—Quality control)
(Electric machinery)

KIKEIDZE, YE. A.

"The composition and properties of humus on the chernozem soils of the Georgian SSR." Published by the Georgian Agricultural Inst. min. Higher Education USSR. Georgian Order of Labor Red Banner Agricultural Inst. Tbilisi, 1956. (Dissertations for the Degree of Doctor in Agricultural Science)

So: Knizhnaya letopis', No. 14, 1956

MKHEIDZE, Ye. A.

Studying the composition and properties of humus in the Chernozem soils of Georgian mountains and lowlands. Sooh.AN Gruz. SSR 20 no. 4:475-480 Ap '58. (MIRA 11:7)

1. Gruzinskiy ordena Trudovogo Krasnogo Znameni sel'skokhozyaystvennyy institut. Predstavleno chlenom-korrespondentom AN GruzSSR D.P. Gedevanishvili.

(Georgia--Humus)

BUNYATYAN, G.Kh.; MKHEYAN, E.Ye.

New data on the conditioned reflex regulation of metabolism. Izv. AN Arm.SSR.Biol.i sel'khoz. nauki. 4 no.4:295-315 '51. (MLRA 9:8)

1. Deystvitel'nyy chlen AN Armyanskoy SSR (for Bunyatyan).
(CONDITIONED RESPONSE) (METABOLISM)

MKHEYAN, E. Ye.

"The Effect of Inhibitory Processes on Certain Aspects of Carbohydrate Metabolism During Unconditioned Stimulation With Adrenalin." Cand Med Sci, Yerevan Medical Inst, 30 Dec 54. (K, 19 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

USSR / Human and Animal Physiology. Metabolism. Carbo- T
hydrate Metabolism.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101653.

Author : Mkheyan, E. Ye.
Inst : AS ArmSSR.
Title : The Influence of Inhibiting Processes on Some Aspects of the Carbohydrate Metabolism of an Unconditioned Stimulant-Adrenalin.

Orig Pub: V sb: Vopr. vyssh. hervn. deyat-sti i kompensatorn. prisposobleniy. Vyp. 2, Yerevan, AN ArmSSR, 1957, 53-73.

Abstract: After multiple introduction of adrenalin (I) to 11 dogs, substitution for I of physiological solution led at first to an increase of the pyroacemic acid content in the blood and later to conditioned-reflexive hyperglycemia. A similar effect was obser-

Card 1/2

MKHEYAN, E.Ye.; BADALYAN, G.Ye.

Effect of chloroprene on the animal organism. Izv.AN Arm. SSR.Biol.nauki 12 no.2:17-26 F '59. (MIRA 12:9)

1. Kafedra biokhimii Yerevanskogo meditsinskogo instituta.
(CHLORPRENE--TOXICOLOGY)

BUNYATYAN, G.Kh.; MKHEYAN, E.Ye.

Effect of unilateral extirpation of the superior cervical sympathetic ganglion on the absorption of glucose and pyruvate by the brain. Vop.biokhim. 2:53-60 '61. (MIRA 15:12)

1. Department of Biochemistry, Medical Institute, Erevan.
(Nervous system, Sympathetic)
(Glucose) (Pyruvic acid) (Brain)

MKHEYAN, E.Ye.

Absorption of glucose and pyruvate by the brain in its various functional states. Vop.biokhim. 2:61-72 '61. (MIRA 15:12)

1. Department of Biochemistry, Medical Institute, Erevan.
(Glucose) (Pyruvic acid) (Brain)

MKRTCHYAN, E.Ye.

Shifts in the cerebroside content of the brain in white rats caused by adrenaline stimulation. Izv. AN Arm. SSR biol. nauki 16 no.8:43-48 Ag '63 (MIRA 17:4)

1. Kafedra biokhimii Yerevanskogo meditsinskgo instituta.

MKh.?Y.?, ...

[illegible] (M..A 19:5)

1. Kafe[illegible]

BUNYATYAN, G.Kh.; MKHEYAN, E.Ye.

Activity of brain cerebrosidase. Vop. biokhim. 3:5-9 '63.
(MIRA 17:12)

1. Department of Biochemistry, Medical Institute, Erevan.

MKHEYAN, E.Ye.

New data concerning the effect of the trophic action of the sympathetic nervous system on the brain. Vop. biokhim. 3: 11-18 '63.

Quantitative changes in the cerebrosides of the brain of albino rats following simultaneous bilateral extirpation of the superior cervical ganglia. Ibid.:19-25 (MIRA 17:12)

1. Department of Biochemistry, Medical Institute, Erevan.

MKHEYAN, V. Ye., Candidate Med Sci (diss) -- "Experimental data on the effect of dichloro-1,3-butene-2 on the organism of animals". Yerevan, 1959. 43 pp (Yerevan State Med Inst), 150 copies (KL, No 24, 1959, 151)

MKrtchyan, V.K.

Effect of dechlorobutene on some indices of carbohydrate metabolism, morphological composition of peripheral blood and different organs of animals under conditions of inhalation and exposure of the skin to the action of the poison. Izv. Akad. Nauk Arm.SSR.Biol.nauki 12 no.3:85-94 Mr '59. (MIRA 12:9)

1. Kafedra gigiyeny truda Yerevanskogo meditsinskogo instituta.
(CHLORINE ORGANIC COMPOUNDS--TOXICOLOGY)

SIMONOV, M.Z., doktor tekhn.nauk; SARKISYAN, R.R., kand.tekhn.nauk; MANVELYAN, D.S., inzh.; MKHITARYAN, R.M., inzh.; GYURDZHYAN, A.R., inzh.; MALADZHYAN, P.A.

Manufacturing precast thin-walled articles by guniting. Mekh. stroi. 18 no.5:16-18 My '61. (MIRA 14:7)

1. Armyanskiy institut stroitel'nykh materialov.
(Reinforced concrete construction) (Gunite)

SOV/124-57-5-6043

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 146 (USSR)

AUTHOR: Mkhitarov, G. M.

TITLE: New Method for the Determination of the Flexural Deformation of Beams (Novyy metod opredeleniya deformatsii balok pri izgibe)

PERIODICAL: Sredneye spets. obrazovaniye, 1956, Nr 8, pp 39-45

ABSTRACT: Bibliographic entry

Card 1/1

MOVNIN, Mikhail Savel'yevich; IZRAELIT, Aron Borisovich; MKHITAROV, G.M., inzh., retsenzent; LAUTNER, E.M., nauchnyy red.; SHAURAK, Ye.N., red.; KRYAKOVA, D.M., tekhn. red.

[Technical mechanics]Tekhnicheskaia mekhanika. Leningrad, Sudpromgiz. Pt.1.[Theoretical mechanics]Teoreticheskaia mekhanika. 1962. 355 p. (MIRA 16:3)
(Mechanics, Analytic)

MOVNIN, Mikhail Savel'yevich; IZRAYELIT, Aron Borisovich; MKHITAROV, G.M., inzh., retsenzent; LAUTKE, [illegible], nauchn. red.; SHAURAK, Ye.N., red.

[Theoretical mechanics] Teoreticheskaia mekhanika. Leningrad, Sudostroenie, 1964. 355 p. (MIRA [illegible])

Doc Med Sci

MKHITAROV, G. V.

Dissertation: "Functional Modifications of the Alimentary Tract and Water-Salt Exchange in Cases of Intestine Fistulas Formed Due to Gunshot Wounds."
24/1/50

Central Inst for Advancement of Physicians

SO Vecheryaya Moskva
Sum 71

MKHITAROV, I.A. (Dzaudzhikau).

Independent work of students in the study of mathematics. Mat.v shkole no.6:52-56 N-D '53. (MLRA 6:12)

(Mathematics--Study and teaching)

MKHITAROV, I.A. (Ordzhonikidze)

Reducing trigonometric expressions to logarithmic form.
Mat.v shkole no.1:71-72 Ja-F '56. (MLRA 9:4)
(Trigonometry)

PRONINA, N.N.; GAB[illegible], [illegible]; [illegible], [illegible]

Extrarenal effe[illegible] of antidiuretic [illegible] [illegible]
gorm. 10 no.5:[illegible]

1. Kafedra normal'noy fiziologii zav. - prof. [illegible]
Severo-Osetinskogo meditsinskogo instituta, [illegible]

MKHITARYAN, A.D.

Blood picture in dysentery in children treated by antibiotics. Pediatriia 37 no.5:36-40 My '59. (MIRA 12:8)

1. Iz infektsionnogo otdela (zav. - chlen-korrespondent AMN SSSR zasluzhennyy deyatel' nauki prof. A.I. Dobrokhotova) Instituta pediatrii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-Ponomareva) na baze Detskoy klinicheskoy bol'nitsy imeni Rusakova.
(DYSENTERY, BACILLARY, in inf. & child
blood picture after antibiotic ther. (Rus))
(ANTIBIOTICS, ther. use
dysentery in child., eff. on blood picture (Rus))

MKHITARYAN, A. D., Cand Med Sci -- (diss) "Clinico-hematological view of acute dysentery in children treated with antibiotics." Moscow, 1960. 18 pp; (Academy of Medical Sciences USSR, Order of Labor Red Banner Inst of Pediatrics); 200 copies; price not given; (KL, 26-60, 143)

MKHITARYAN, A., inzh.

Specialize the production of the pipe fittings plant. Prom.Arm. 6 no.10:17-18 O '63. (MIRA 17:1)

MKHITARYAN, A.M.

Seepage through earthen dams built on permeable foundations flanked by tail water. Izv.AN Arm.SSR.Ser.FMET nauk 1 no.4:289-299 '48. (MLRA 9:8)

(Dams) (Soil percolation)

30811. MKRTCHYAN, A. M.

Fil'tratsiya vody cherez zemlyanyye plotiny na nepronitsayemykh oshovaniyakh (chastnyy sluchay). Izvestiya Akad. nauk Arm. SSR, fiz-matem., estestv. i tekhn. nauki, 1949, No. 2., s. 143-54, -- Rezyume na arm. yaz. -- Bibliogr: 6 nazv.

MKHITARYAN, A. M.

MKHITARYAN, A. M. -- "Theory and Calculation [illegible] Trat[illegible] [illegible]
Jun [illegible] Dec 52, in the [illegible] Mechanics, Acad [illegible]
of Doctor in Technical [illegible]

: VECHERNAYA [illegible], JANUARY-DECEMBER [illegible]

MKHITARYAN, A.M.

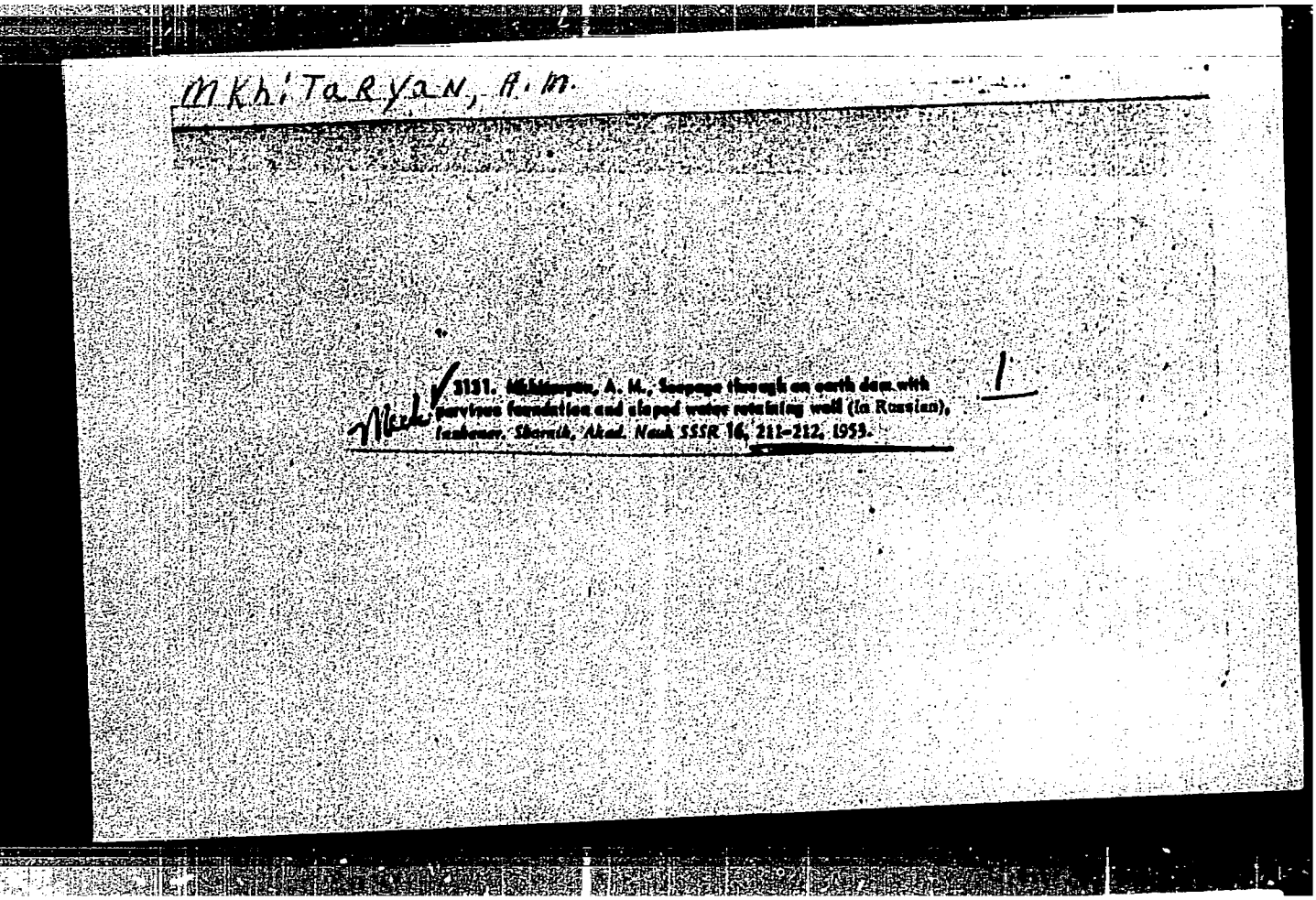
Hydromechanics, Filtration of Liquids and Gases in a Porous Medium (3397)

Inzhenernyy Sbornik, Vol 15, 19[illegible]3, pp 169-176

Mkhitaryan, A. M.
Calculation of Filtration Through an Earth Embankment With a Groove and a [illegible]rain

Considers the problem of filtration in an earth embankment with a groove. Abstractor mentions that this problem was solved by another method by F. B. Nel'son-Skornyakov (Izv. AN SSSR, Otd Tekh Nauk, No 9, 1943, p 10)

Referativnyy Zhurnal -- Mekhanika, No 5, 1954 (M-30976)



MKhITaRYaN, A. M.

3131. Mkhitaryan, A. M., Seepage through an earth dam with pervious foundation and sloped water retaining wall (in Russian), Izvestiya, Otdeleniya, Akad. Nauk SSSR 16, 211-212, 1953.

MKHITARYAN, A.M.

Filtration of water through an earth dam with paving and apron on a permeable base and slanting impervious level. Ukr. mat. zhur. 6 no.4:448-456 '54. (MLRA 8:5)
(Dams) (Soil percolation)

~~MKHITARYAN, A M~~

Mkhitaryan, A. M.

Mhitaryan, A. M. The unsteady problem of circulation of a monsoon. [illegible] (1954), 33-40. (Russian. Armenian [illegible])

L'auteur généralise les résultats obtenus par Dorodnitzin en introduisant le mouvement à grande échelle, sur une sphère (au lieu de la terre plate) et la force de Coriolis l'atmosphère étant considérée comme un fluide barocline et visqueux. *M. Kiveliovitch* (Paris).

Mhitaryan, A. M. On the theory of large-scale convection. Akad. Nauk Armyan. SSR. Izv. Fiz.-Mat. Estest. Tehn. Nauki 8 (1955), no. 1, 21-40. (Russian. Armenian summary)

L'auteur reprend les formules de son oeuvre analysée ci-dessus et ajoute quelques détails concernant la température, la [illegible] ainsi que les calculs de quelques fonctions supplémentaires. *M. Kiveliovitch* [illegible]

MBM

MKHITARYAN, A.M., professor, doktor tekhnicheskikh nauk.

Results of the scientific technical conference extending assistance to the Kuibyshev hydroelectric construction project. Gidr.stroi. 23 no.5:42-43 '54. (MLRA 7:8)

1. Predsedatel' Orgkomiteta.
(Kuybyshev hydroelectric power station)

MKHITARYAN, A.M.

FD-1709

USSR/Geophysics - Atmosphere pressure distribution

Card 1/1 : Pub. 45-9/12

Author : Mkhitaryan, A. M.

Title : Calculation of the effect of near-ground friction in the problem of the distribution of pressure at sea level

Periodical : Izv. AN SSSR, Ser. geofiz., 80-83, Jan-Feb 1955

Abstract : The author constructs a theory of pressure distribution at sea level that takes into account the friction near the ground (vertical turbulent exchange). He solves the problem in the framework of the linear theory and represents the solution in the form of series in spherical functions. Two references: Ye. N. Blinova, "Hydrodynamic theory of pressure waves and action centers of the atmosphere," DAN SSSR, 39, No 7, 1943; N. Ye. Kochin, "Simplification of the equations of hydromechanics for the case of general circulation of the atmosphere," Trudy GGO, No 4, 1935; The author acknowledges the help of I. A. Kibel'.

Institution : Geophysics Institute, Academy of Sciences USSR

Submitted : July 27, 1954

AID P - 3999

Subject : USSR/Hydr. Eng.

Card 1/1 Pub. 35 - 6/18

Authors : Mkhitaryan, A. M., Dr. Tech. Sci. Prof. and V. Ye. Chubov, Eng.

Title : Steel piling at the Kuybyshev Hydro Power Development Construction.

Periodical : Gidro. stroi., 8, 19-20, 1955

Abstract : The process of driving in over 45,000 t of steel piling at the construction site is discussed in detail. The equipment used is listed. One diagram.

Institution : None

Submitted : No date

MKHITARYAN, A.M.

On the theory of large-scale convection. Izv. AN Arm. SSR Ser.FMGT nauk 8 no.1:21-40 Ja-F '55. (MLRA 8:5)

1. Vodno-energeticheskiy institut AN Armyanskoy SSR.
(Heat--Convection) (Meteorology)

MKHITARYAN, A.M.

One meteorological application of the theory of large-scale convection. Dokl. AN Arm. SSR 20 no.3:75-80 '55. (MLRA 8:7)

1. Vodno-energeticheskiy institut Akademii nauk Armyanskoy SSR. Predstavleno N.Kh. Arutyunyanom. (Heat--Convection) (Meteorology)

MKhITARIAN, A.M.

A generalization of the work of ... the influence of vertical ... field.

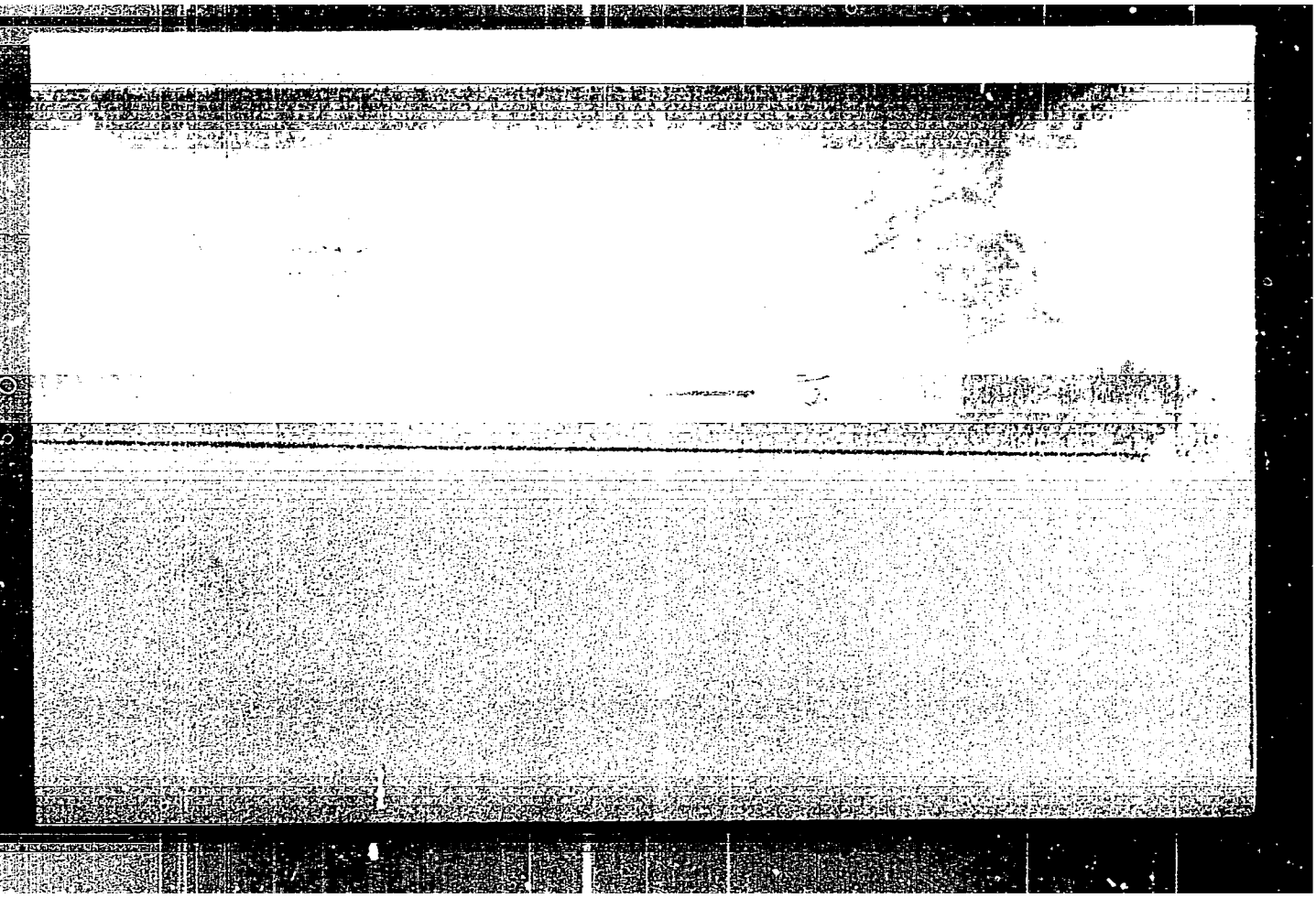
Author starts ... velocity vortex ... vertical mixing ... East-East transport ... ordinate z from ... velocity). The equation obtained as a result ... contains the additive term

$$\nu \frac{\partial \Omega_z}{\partial_z} \Big|_{z=0} \qquad [*]$$

where ν = kinematic viscosity.

This additive term is calculated by applying the equations of N. E. Kochin [*Tr. Gl. geofiz. observ.* 1935, no. 4], on the assumption that ν = const. These equations enable the horizontal components of the velocity in the planetary boundary layer to be expressed by the pressure gradient. Substituting in the above expression [*] the expressions obtained for the horizontal velocity components, and applying the barometric formula to transform the

1/2



MKHITARYAN, A.M.

Distribution of atmospheric pressure on the surface of the earth in the case of nonzonal circulation of air. Dokl.AN Arm.SSR 21 no.3:97-102 '55. (MLRA 9:2)

1.Vodno-energeticheskiy institut Akademii nauk Armyanskoy SSR. Predstavleno I.V.Yegiazarovym.
(Atmosphere pressure)

MKHITARYAN, A.M., doktor tekhnicheskikh nauk, professor; CHUBOV, V.Ye., inzhener.

Metal cofferdams as used in building the Kuybyshev Hydraulic Power Station. Gidr. stroi. 24 no.8:19-20 '55. (MLRA 9:3)
(Piling (Civil engineering))(Kuybyshev Hydraulic Power Station)

SOV124-57-4-4476

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 87 (USSR)

AUTHOR: Mkhitaryan, A. M.

TITLE: A Novel Method of the Computation of the Seepage Through an Earth Dam on a Permeable Foundation (Novyy fil'tratsionnyy raschet zemlyanoy plotiny na pronitsayemom osnovanii)

PERIODICAL: Tr. Kuybyshevsk. inzh.-stroit. in-t, 1956, Nr 3, pp 43-63

ABSTRACT: An approximate hydraulic solution for the problem of the computation of the seepage flow through a homogeneous earth dam standing on a permeable foundation in the case when the embankment of the dam and the foundation have the same permeability, and the downstream slope of the dam is not equipped with a drainage blanket. The dam is studied with a filled as well as empty tail water section. The author subdivides the cross section of the dam into three portions, namely, an upstream wedge, a center portion, and a downstream wedge; he then utilizes a number of well-known and by now outdated computational assumptions regarding the shape of the flow lines within the dam portions indicated. Thus, the flow lines within the upstream wedge are replaced by concentric circular arcs [see Uginchus, A. A., Raschet

Card 1/2

A Novel Method of the Computation of the Seepage Through an Earth Dam (cont.)

fil'tratsii cherez zemlyanyye plotiny (Calculation of Seepage Through Earth Dams) Stroyizdat, 1940, p 57] without any reference to existing technical publications. A solution by N. N. Pavlovskiy (formula 4.1) and a reasoning by "Bil'dyug" (formula 4.2) are employed in the case of the downstream wedge, again no reference being made to the original sources. Thus the basic postulates of the "novel method of computation of seepage" contain nothing that is novel. The author arrives at some very complex systems of equations requiring the plotting of special graphs.

A. A. Uginchus

Card 2/2

SOV/124-57-3-3274

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 92 (USSR)

AUTHOR: Mkhitaryan, A. M.

TITLE: On the Calculation of Seepage Flow Through Nonhomogeneous Earth Dams Having a Permeable Foundation (K raschetu fil'tratsii cherez neodnorodnyye zemlyanyye plotiny na pronitsayemom osnovanii)

PERIODICAL: Tr. Kuybyshevsk. inzh.-stroit. in-t, 1956, Nr 3, pp 65-79

ABSTRACT: A presentation of an approximate method for the computation of the seepage flow through earth dams erected on a permeable foundation and equipped with cut-offs of little or no permeability. the central portions of the dams have no drainage blankets on the downstream slope. The pressure losses between the upstream and downstream wedges are determined by the method of N. N. Pavlovskiy. The lines of flow at the entry and the exit of the permeable region of the base are assumed to have the shape of concentric circles (the Bil'dyug method). The Kozeny formula is employed in determining the depth of the seepage flow at the crest of the cut-off. By considering separately the seepage flow in the embankment of the dam and in the permeable foundation (in accordance with the Dupuy equation),

Card 1/2

On the Calculation of Seepage Flow Through Nonhomogeneous Earth Dams (cont)

the author obtains a number of complex relationships for determining the necessary elements characterizing the motion of the seepage flow. Owing to the employment of some very far-reaching assumptions the method proposed can be regarded as only a very rough approximation of uncertain accuracy. Bibliography: 6 references.

A. A. Uginchus

Card 2/2

SOV 124-57-7-8103

Translation from: Referativnyy zhurnal. Mekhanika. 1957 Nr 7 p 99 (USSR)

AUTHOR: Mkhitaryan A. M.

TITLE: The Calculation of the Seepage Through an Earth Dam on a Permeable Foundation With Different Seepage Coefficients of the Dam Embankment and Foundation (Raschet fil'tratsii cherez zemlyanuyu plotinu na pro nitsayemom osnovanii pri razlichnykh koeffitsiyentakh fil'tratsii tela i osnovaniya)

PERIODICAL: Sb nauch tr Kuybyshevsk. industr in-t, 1956 Nr 6 book 1 pp 187-194

ABSTRACT: The author gives an approximate hydraulic method of calculation of the seepage through dams built on permeable foundations for cases when the seepage coefficients of the dam embankment are different from those of the foundation. In the calculation of the seepage through the upstream and downstream wedges of the dam the author divides the seepage areas into two parts assuming the foundation of the dam as a horizontal dividing line. This appears to imply the supposition that the flow lines beginning at the upstream slope cannot enter into the area of the permeable foundation. It is of course impossible to

Card 1/2

The Calculation of the Seepage Through an Earth Dam on a Permeable [illegible]

agree with this conception expressed by the author especially in those cases where the foundation is more permeable than the embankment of the dam. For the solution of the question of the lengths of the mean path of water travel in the foundations of the upstream and downstream wedges the author employs the old method which treats the path of water travel as a circular arc. The calculation of the upper part of the downstream wedge is made in accordance with the obsolete formula of N N Pavlovskiy ($l = 1/m_1$, where m_1 is the tangent of the angle of the incline of the lower slope with respect to the horizon). More accurate relationships (for example Mikhaylov, G K. Gidrotekhnika i melioratsiya 1957 No 1) are being used today. As a result the author obtains a complex system of equations which he suggests solving by the graphic method. Design graphs are offered for a case when the ratio of the seepage coefficients equals 10. Taking into consideration the comments made in this review it is hardly possible to expect a practical application of the approximation method suggested by the author. When necessary it is simpler to study the model on the EGDA (electro hydrodynamic analog) computer.

A A Ugrechus

Card 2/2

MKHITARYAN, A.M.

Distribution of atmospheric pressure at sea level. Izv.AN SSSR Ser. geofiz. no.7:831-834 Jl '56. (MLRA 9:9)

1.Akademiya nauk Armyanskoy SSR, Vodno-energeticheskiy institut.
(Atmospheric pressure)

MKHITARYAN, A.M.

Distribution of atmospheric pressure at sea level in general atmospheric turbulence. Izv.AN ARM.SSR.Ser.FMGT nauk 9 no.9:67-96 '56. (MLRA 10:2)

1. Vodno-energeticheskiy institut AN Armyanskoy SSR.
(Atmospheric pressure)

AMANYAN, Antik Karpovich; MKHITARYAN, A.M., otvetstvennyy red.; KAPLANYAN, M.A., tekhn.red.

[Fluid flow at the bend of a pipe] Dvizhenie zhidkosti na povorote vodovoda. Erevan, Izd-vo Akad. nauk Armianskoi SSR, 1957. 361 p. (MIRA 11:5)
(Fluid dynamics)

SOV/2208

~~10~~(4,5) PHASE I BOOK EXPLOITATION

Mkhitaryan, Artashes Melkonovich

Gidravlika i gidromekhanika (Hydraulics and Hydromechanics) Kiyev, Gostekhizdat USSR, 1958. 374 p. Errata slip inserted. 9,000 copies printed.

Ed.: M. Pisarenko; Tech. Ed.: K. Gusarov.

PURPOSE: This is a textbook for students of polytechnical and power vuzes specializing in boilers and turbine manufacturing. It may also be used as a textbook for students of other vuzes.

COVERAGE: The author presents basic information on hydraulics and hydromechanics for the course, Hydraulics and Hydromechanics. The book is based on lectures read by the author at Kuybyshevskiy industrial'nyy institut (Kuybyshev Industrial Institute) and Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev Order of Lenin Polytechnical Institute). In addition to theory and problems the book contains a manual for laboratory exercises. The author thanks Docent N. N. Shepelevskaya and assistants, V. Ya. Fridland

Card 1/~~14~~ 2

MKHITARYAN, A.M.

Quantitative analysis of the discontinuous solution of a problem on the determination of the characteristics of steady wave trains in a rapid flow. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 11 no.1:47-66 '58. (MIRA 11:6)

1. Vodno-energeticheskiy institut AN Armyanskoy SSR.
(Waves) (Hydrodynamics)

MKHITARYAN, A.M.

Evaluating minimum depth of Lake Sevan in relation to evaporation. Izv. AN Arm.SSSR. Ser.tekh.nauk 11 no.5:17-22 '58. (MIRA 11:11)

1. Vodno-energeticheskiy institut AN ArmSSR.
(Sevan, Lake--Physical geography)

3(7)

AUTHOR: Mkhitaryan, A.M. SOV/22-11-6-9/10

TITLE: Model of an Unsteady Monsoonic Zonal Atmospherical Circulation (Model' nestatsionarnoy zonal'noy mussonnoy tsirkulyatsii atmosfery)

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR Seriya fiziko-matematicheskikh Nauk, 1958, Vol 11, Nr 6, pp 3-14 (USSR)

ABSTRACT: In a former paper /Ref 10/ the author considers the free heat convection in the large and solves the instationary, nonlinear, nonzonal problem of heat convection of a real barocline terrestrial atmosphere under consideration of the gravitational force and of the Coriolis-acceleration. In the present paper it is shown how to use this solution in order to construct the instationary model of a monsoonic zonal circulation. The problem is based on the following scheme : The spherical earth is separated by a parallel into a homogeneous northern continent and a southern ocean, so that the motion is independent of the degree of longitude. The temperature distribution of the atmosphere on the surface of the earth is assumed to be known. Several examples are numerically calculated.

Card 1/2

Model of ar Unsteady onsoonic Zonal Atmospherical SOV/22-11-6-9/10
Circulation

There are 14 figures, and 12 references, 10 of which are Soviet, 1 German, and 1 American.

ASSOCIATION: Vodno-energeticheskiy institut AN Armyanskoy SSR (Hydro-Power Engineering Institute, AS Armenian SSR)

SUBMITTED: March 25, 1958

Card 2/2

SOV/2711

PHASE I BOOK EXPLOITATION

10(2)

Mkhitaryan, Artashes Melkonovich

Gidravlika i osnovy gazodinamiki (Hydraulics and Fundamentals of Gas Dynamics) Kiyev, Gostekhizdat USSR, 1959. 279 p. 5,000 copies printed.

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

PURPOSE: This textbook is intended for students of specialized courses in heat-power engineering at polytechnical and power engineering schools and may also serve as a manual for courses of other departments in schools of higher technical education.

COVERAGE: This textbook was written in accordance with the educational program for the course "Hydraulics and Fundamentals of Gas Dynamics" approved by the Soviet Ministry of Higher Education on June 9, 1955, and is the first to be published according to this program. It presents basic information on hydraulics and important concepts of gas dynamics. Examples clarifying the theoretical conclusions of the individual chapters are given. Chapter XII was written by Assistants V. S. Maksimov and V. Ya. Fridland of the Department of Hydraulics of the Kiyev Order-of-Lenin Polytechnical Institute. The

Card 1/10 7-

SOV/24-[illegible]-1-11/33

AUTHOR: Mkhitaryan, A.M., (Yerevan)

TITLE: On the Waves in Steep Channels (O volnakh na bystrotoke)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Energetika i Avtomatika, 1959, Nr 1, pp 90-99 (USSR)

ABSTRACT: The author describes a method of calculating the roll waves (Ref 15, 26). The nature of waves is shown in Fig 1, where θ - inclination of the bottom, λ - wavelength, h_1, h_2 - wave's maximum and minimum height respectively. The denotations are as follows: E - energy, p - pressure, p_1 and p_2 - pressure components, ρ - density, h - height of free surface, i - inclination of the bottom, v - velocity of the particles, $\kappa^2 = 4\vartheta/C^2$ - coefficient of resistance, g - gravity, C - Chezy coefficient. The equation of motion along the axis x is given as Eq (1.1) where c - velocity of travelling waves, t - time. When the transformation of the co-ordinates is made Eq (1.4), this expression takes the form Eq (1.5). Thus to find v, λ, h_1, h_2, four equations are derived: Eq (1.5) and (1.6). When one of

Card 1/5

On the Waves in Steep Channels

these unknowns is assumed to be known, for example, the wavelength λ, then the profile of the wave and the relation between the depth and its velocity can be found from Eq (1.8) to (1.11) (Ref 8, 28) where the profile is determined for the 2 cases: continuous - Eq (1.5) - and interrupted - Eq (1.6) - travel of the wave. The conditions of the formation of the travelling waves can be defined from Eq (1.9) when the depth is determined by Eq (2.1) and $h \rightarrow h_0$, $u \rightarrow u_0$ (Eq 2.2). Thus the formula (2.3) can be obtained, which shows that the velocity of the water particles is smaller than that of the wave propagation. If Eq (1.10) and (2.1) are substituted into Eq (2.13) the expression (2.5) is found, from which Eq (2.6) to (2.8) are determined. Thus the condition of formation of roll waves can be expressed as Eq (2.9). The specific equations of the wave profile (Eq 2.6) and of the discontinuity Eq (1.6) can be defined as Eq (3.1). Then Eq (2.6) can be written as Eq (3.2) and (3.3) and Eq (1.6) as Eq (3.4). Therefore the motion can be determined only from Eq (3.5) and the relation h_1 to h_2 from Eq (3.6). For

On the Waves in Steep Channels

$h_1 > h_2$ and the conditions (3.7) and (3.8) the formulae (3.9) to (3.11) are found i.e. when λ is given, the values of h_1 can be calculated from Eq (3.10) and h_2 from (3.9), the height H from Eq (3.11) and the wave profile from Eq (3.3). The values of u_0, h_0, q_0, F_A, F_B, a_1, a_2 and a_4 are functions of the characteristic ξ. All these values can be calculated from Eq (2.3, 2.5, 3.1, 3.7 and 3.8) for example, $u_0 = 1$, $h_0 = 0$, $a_4 = 0$, for $\xi = 0$, $h_c = 0.6667$, $h_c = 0.1111$, $q_0 = 0.037$, for $\xi = 1$. When the solutions of Eq (3.9, 3.10 and 3.11) are calculated for $\lambda \to 0$ and $\lambda \to \infty$ ($i > 0$), the cases expressed by the formulae (4.1) to (4.10) can be distinguished, which are shown in Fig 2 and 3. Fig 2 illustrates the relationship between the maximum height of the wave and the characteristics of the steep channel and the wave length $h_1 = h_1(\xi, i\lambda)$; the curves corresponding to $i\lambda = 0(1)$, 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, 0.60, 0.80 and $i\lambda = \infty$ (2).

Card 3/5 Fig 3 represents the relationship of the height of the

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discontinuity and the characteristics of the steep channel and wavelength $H = H(\zeta, i\lambda)$; the curves corresponding to $i\lambda = 0(1)$, 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, 0.60, 0.80 and $i\lambda = \infty(2)$. The wave velocity is calculated from the expression (3.4) for q^0 found from Eq (5.1), the mean value of which can be obtained from Eq (5.2), (5.3) and (5.5). Fig 4 shows the relationship of the coefficient of the wave velocity and the characteristics of a steep channel and wavelength; the curves correspond to $i\lambda = 0(1)$, 0.2, 0.4, 0.6, 0.8 and $i\lambda = \infty(2)$. The experiments were carried out with models by the Institute of Water Power of the Academy of Sciences, Armenian SSR and by the Gyumush Hydroelectric Power Station, the results of which are shown in Tables 1 and 2 respectively (b - width of the trough, h_{max} - maximum height, h_* - critical height, c^0 - mean velocity of wave propagation). Some of these results are shown in Fig 5 (1 - h_*, 2 and 3 - calculated values for the model numbers 20 and 17, 4 and 5 - the observed values for the above model numbers). It should be noted that the

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advantage of the method where the calculation is based on the wavelength is that it gives the high accuracy in spite of the relatively large error in the determination of the wavelength. There are 5 figures, 2 tables and 35 references.

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Card 5/5

OGNEVA, T.A.; MKHITARYAN, A.M.; GALFAYAN, A.A.

Characteristics of turbulent exchange in the boundary layer next to the surface of Lake Sevan. Izv.AN Arm.SSR.Ser.tekh.nauk. 12 no.1:37-44 '59. (MIRA 12:4)

1. Vodno-energeticheskiy institut AN Arm.SSR.
(Sevan, Lake) (Evaporation)

ARGUNOV, Pavel Pavlovich, prof., doktor tekhn.nauk; MKHITARYAN, A.M., spets.red.; REZNICHENKO, I.Ye., red.; ROZHAVINA, A.L., red.; YUNOVSKIY, Ye.B., tekhn.red.

[Hydroelectric power stations; principles of the utilization of water power] Gidroelektrostantsii; osnovy ispol'zovaniia vodnoi energii. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1960. 452 p. (MIRA 13:10)
(Hydroelectric power stations)

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D237/D301

AUTHOR: Mkhitaryan, A.M., and Lapinov, S.D.

TITLE: New methods of controlling the gaseous boundary layer

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1962, 56, abstract 3B656 (Tr. Vses., nauchno-tekhn. soveshchaniya po vodozaborn. sooruzh. i ruslovym protsessam v. 2, Tbilisi, 1960, 54 - 60)

TEXT: General considerations are presented on the influence of the electrostatic field on the flow of ionized gas in the boundary layer, along a non-conducting wall. Equations of the boundary layer of an incompressible ionized gas are given and, according to the authors, their solution requires the knowledge of a number of magnitudes, which they hope to obtain experimentally during the study of a plane condenser. Misprints occur in the article. [Abstractor's note: Complete translation].

JB

Card 1/1

MKHITARYAN, A.M.

Determining evaporation from the surface of Lake Sevan.
Dokl.AN Arm.SSR 30 no.3:149-155 '60. (MIRA 13:8)

1. Institut energetiki i gidravliki Akademii nauk Armyanskoy SSR. Predstavleno akad. AN Armyanskoy SSR N.Kh.Arutyunyanom.
(Sevan Lake--Evaporation)

MKHITARYAN, A. M.

One solution for an equation on turbulent heat conductivity. Dokl. AN Arm.SSR 30 no.4:219-224 '60. (MIRA 13:8)

1. Institut energetiki i gidravliki Akademikii nauk Armyanskoy SSR. Predstavleno SSR. Predstavleno akad. AN Armyanskoy SSR H.Kh. Arutyunyanom.

(Heat--Conduction)