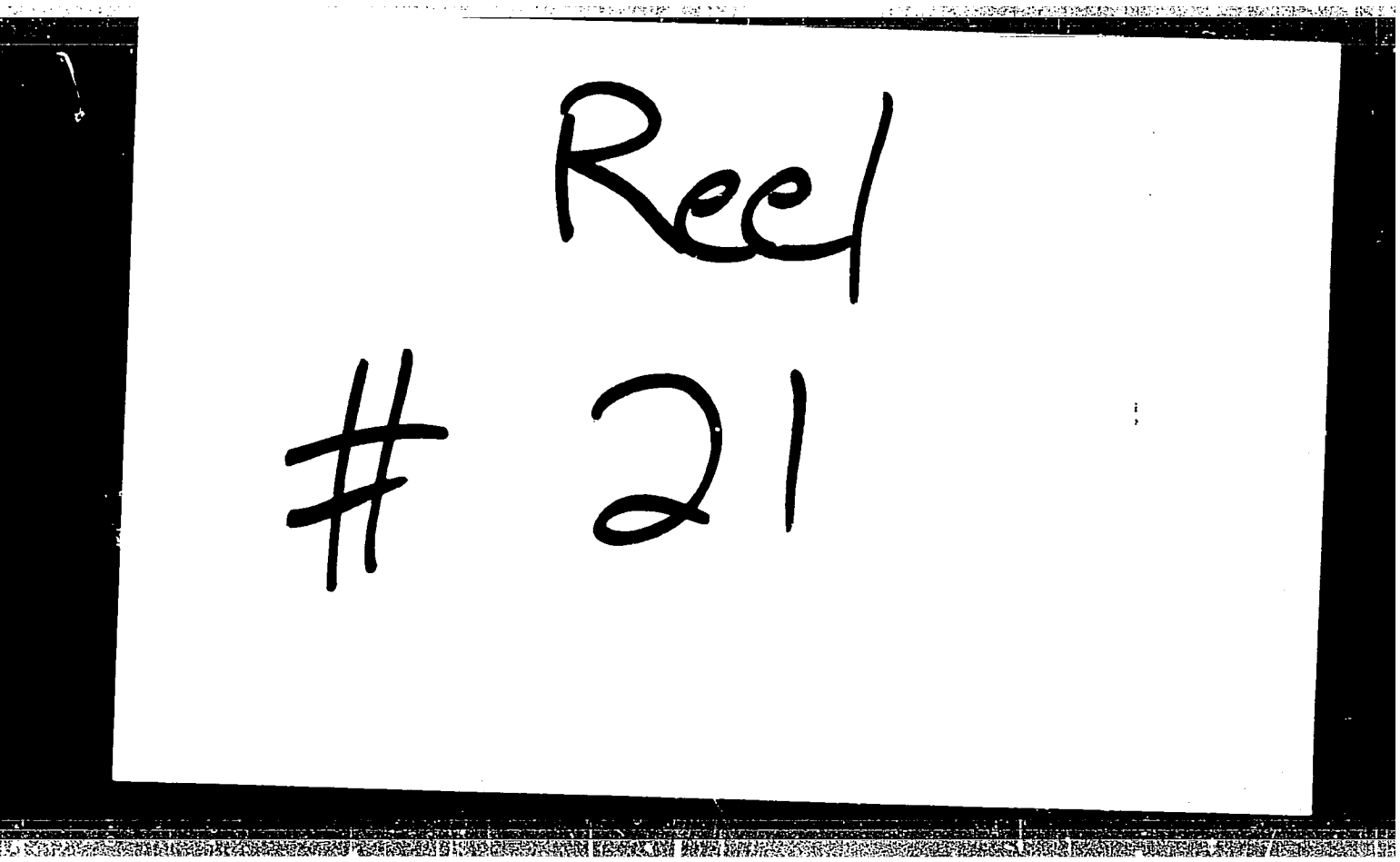

ARKHANGEL'SKIY, P.P., agronom-entomolog

A necessary addition. Zashch. rast. ot vred. i bol. 8 no.8: 62-63 Ag '63. (MIRA 16:10)

DECEASED*

ARKHANGEL'SKIY, P.P., agronom po zashchite rasteniy (Alma-Ata)

"Distribution of pests and diseases of farm crops in the U.S.S.R. in 1960 and the forecast of their occurrence in 1961." Reviewed by P.P.Arkhangel'skii. Zashch. rast. ot vred. i bol. 6 no.9:60 S '61. (MIRA 16:5)

(Rodenticides)

*Abst - ENT. OBOZ, 40 No.3, p.710 1961

ARKHANGEL'SKIY, P.P., agronom po zashchite rasteniy (Alma-Ata)

Is is necessary to disinfect all grain crop seeds for protection against smuts? Zashch. rast. ot vred. i bol. 7 no.9:13-14 S '62. (MIRA 16:8)

(Smuts) (Seeds--Disinfection)

ARKHANGEL'SKIY, P.P., entomolog; MAKHMUDOV, D.

Before and now. Zashch. rast. ot vred. i bol. 7 no.11:13-15 N '62. (MIRA 16:7)

1. Direktor Leninabadskoy stantsii zashchity rasteniy (for Makhmudov).

ARKHANGEL'SKIY, P.P., agronom po zashchite rastoniy (Kazakhskaya SSR); MASLYAYEV, A.V.

Responses to our articles. Zashch. rast. ot vred. i bol. 9 no.1: 18 '64. (MIRA 17:4)

1. Starshiy agronom po zashchite rasteniy Manturovskogo proizvodstvennogo upravleniya Kostromskoy oblasti.

ARKHANGEL'SKIY, P.P., agronom-entomolog

Controlling plant lice. Zashch. rast. ot vred. i bol. 9 no.8:36 '64. (MIRA 17:12)

ARKHANGEL'SKIY, P.P., agronom po zashchite rasteniy

Shortcomings of a necessary book. Zashch. rast. ot vred. i bol. 8 no.3:61-62 Mr '63. (MIRA 17:1)

ARKHANGEL'SKIY, P.P. (Alma-Ata)

Almost like Mark Twain. Zashch. rast. ot vred. i bol. 9 no.10: 61-62 '64 (MIRA 18:1)

ARKHANGEL'SKIY, P. Ye.

MIKHALCHENKOV, M.I., inzhener; ARKHANGEL'SKIY, P.Ye., inzhener.

Hothouse construction. Stroi.prom. 32 no.7:34-37 Jl '54.
(Greenhouses) (MLRA 7:7)

ARKHANGEL'SKIY, P.Ye., inzhener; ARKHIPOV, P.P., inzhener; VAS'KOV, M.P., agronom; ZHMUDSKIY, D.A., arkhitektor; IVANOV, A.P., arkhitektor; KIBIREV, S.F., arkhitektor; KRYLOV, N.V., inzhener-arkhitektor; KULAKOV, D.V., arkhitektor; MARTYNOV, P.F., inzhener; NIKIFOROV, V.S., inzhener; NOSKOV, B.G., arkhitektor; PETUKHOV, B.V., kandidat tekhnicheskikh nauk; RUDANOV, M.L., kandidat tekhnicheskikh nauk; RYAZANOV, V.S., kandidat arkhitektury; SOKHRANICHEV, N.S., inzhener-arkhitektor; TARASOV, D.I., arkhitektor; SHMIDT, N.E., kandidat arkhitektury; KHOMUTOV, Ye.Ye., arkhitektor; VOL'FOVSKAYA, V.N., redaktor; FEDOTOVA, A. F., tekhnicheskiy redaktor.

[Handbook on the construction of farm buildings] Spravochnik po sel'skokhozyaistvennomu stroitel'stvu. Avtorskii kollektiv: P.E.Arkhangel'skii i dr., avtor-sost. N.V.Krylov. Moskva, Gos.izd-vo sel'khoz.lit-ry. Vol.3 1955. 843 p. (Farm buildings) (MLRA 9:6)

FEDOROV, B.I., arkhitektor; ARKHANGEL'SKIY, P.Ye., inzhener-konstruktor; GLAGOLEV, L.S., inzhener-teplotekhnik; KUDRYAVTSEVA, Ye.V., inzhener-elektrik; OSTROUMOV, A.N., redaktor

[Poultry house for 5,000 chicks; model no.15-26] Tsypliatnik na 5000 golov. Proekt No.15-26. Moskva, 1956. 31 p. (MLRA 9:12)

1. Russia (1923- U.S.S.R.) Ministerstvo gorodskogo i sel'skogo stroitel'stva.
(Poultry houses and equipment)

NATSENTOV, D.I., kandidat sel'skokhozyaystvennykh nauk; MKRTCH'YAN, V.S., kandidat sel'skokhozyaystvennykh nauk; ARKHANGEL'SKIY, P.Ye., inzhener; NOSKOV, B.G., arkhitektor; KRASNOSHCHEKOV, N., redaktor; LIL'YE, A., tekhnicheskiy redaktor

[Greenhouses, hotbeds and heated soil] Teplitsy, parniki, uteplennyi grunt. [Moskva] Moskovskii rabochii, 1956. 246 p. (MIRA 9:9)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khozyaystva (for Natsentov, Mkrtch'yan) 2. Respublikanskiy gosudarstvennyy institut proyektirovaniya sovkhoznykh predpiyatiy - Rosgiprosovkhozstroi) (for Arkhangel'skiy). 3. Vsesoyuznyy gosudarstvennyy institut proektirovaniya sel'skokhozyaystvennykh predpriyatiy - Soyuzgiprosel'khoz (for Noskov)

(Hotbeds) (Soil heating) (Greenhouses)

ARKHANGEL'SKIY, P.Yo.; BERNSHTEYN, A.M.; BYKOV, M.A.; DLUGACH, M.L.; IL'YASHEVSKIY, Ya.A.; KIRILLOV, A.A.; KOZLOVSKIY, A.S.; KRYLOV, N.V.; LESOV, N.M.; MARTYNOV, P.T.; NIKANDROV, B.I.; PARUNIN, V.Ye.; RUDANOV, M.L.; SINYAKOV, V.K.; FAL'KNER, O.G.; PETRYAKOV, A.I., red.; BALLOD, A.I., tekhn.red.

[Manual on the construction of farm buildings] Spravochnik po sel'skokhoziaistvennomu stroitel'stvu. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 704 p.
(Farm buildings) (MIRA 13:12)

ARKHANGEL'SKIY, S., kandidat pedagogicheskikh nauk

Planning life's work activities. Prof.-tekh. obr. 12 no.4:23-25 Ap '55.
(Vocational guidance) (MLRA 8:7)

ARKHANGEL'SKIY, S.

We should fully utilize all industrial potentialities. Mast. ugl. 4 no.3:9-10 Mr '55. (MLRA 8:6)

1. Nachal'nik tekhnicheskogo otdela tresta Prokop'yevskugol'kombinata Kuzbassugol'.
(Kuznetsk Basin--Coal mines and mining)

ARKHANGEL'SKIY, S.

27-7-14/37

AUTHOR: Arkhangel'skiy, S., Candidate of Pedagogical Sciences

TITLE: Standardization of Industrial Training Work (O normirovanii uchebnoproizvodstvennykh rabot)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, 1957, # 7(146), pp 17-18 (USSR)

ABSTRACT: The author discusses the need for a standardization of student production work. He maintains that the students must be taught to pace their work. He suggests that the Aministration for Methodical Training and Technical Production of the Labor Reserves Main Administration compile time standards for such apprentice work.

ASSOCIATION: Main Administration of Labor Reserves, Moskva (Glavnoye upravleniye trudovykh rezervov, Moskva)

AVAILABLE: Library of Congress

Card 1/1

ARKHANGEL'SKIY, S., prof.

"Transactions of the Fifth All-Union Congress of Dermato-venereologists." Vest.derm. i ven. 27 no.1:85 Ja'63.
(MIRA 16:10)
(DERMATOLOGY—CONGRESSES) (VENEROLOGY—CONGRESSES)

ARKHANGEL'SKIY, S. A.

PA 20/49T77

USSR/Medicine - Diet and Dietetics Nov/Dec 48
Medicine - Health, Resorts

"The Problem of the Preparation of Koumiss," S. A. Arkhangel'skiy, Koumiss Lab of Borovoye Health Resort, 1 p

"Problemy Tuberkuleza" No 6

Report of investigations at Borovoye health resort. Four stages in fermentation of koumiss are weak, medium, strong and very strong. Chemical investigation of each type should reveal reason for differences in action on patient's organism.

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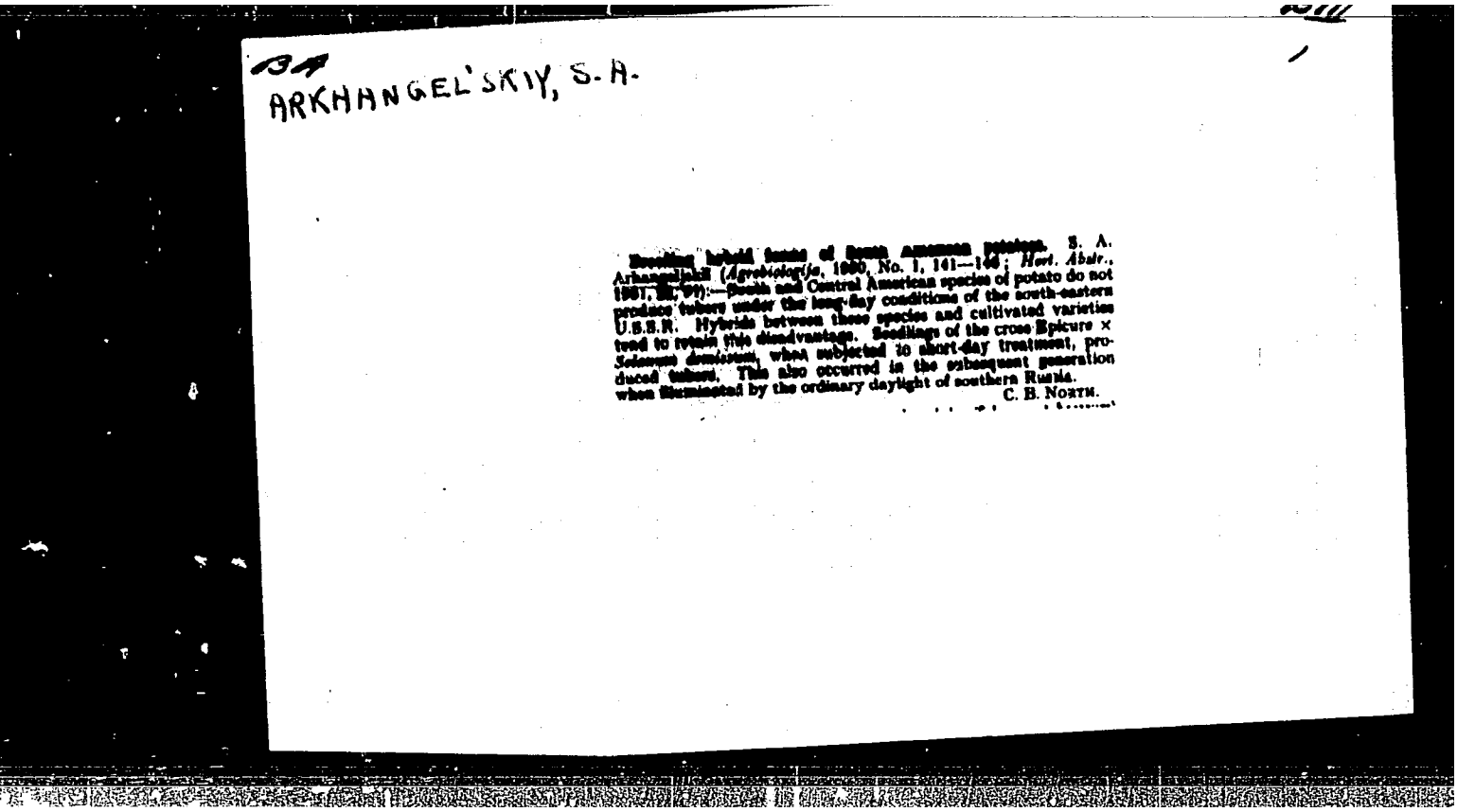

34
ARKHANGEL'SKIY, S. A.

Breeding behold forms of Soviet American potatoes. S. A. Arhangelskii (*Agrobiologija*, 1950, No. 1, 141—146; *Hort. Abstr.*, 1951, XXI, 91).—South and Central American species of potato do not produce tubers under the long-day conditions of the south-eastern U.S.S.R. Hybrids between these species and cultivated varieties tend to retain this disadvantage. Seedlings of the cross Epicure × *Solanum demissum*, when subjected to short-day treatment, produced tubers. This also occurred in the subsequent generation when illuminated by the ordinary daylight of southern Russia.
C. B. NORTH.

ARKHANGEL'SKIY, S.A., kandidat sel'skokhozyaystvennykh nauk.; KUDRYAVTSEVA, V.T., kandidat sel'skokhozyaystvennykh nauk.; TITVINIDZE, S.S., nauchnyy sotrudnik.; KHLOPINA, S.I., nauchnyy sotrudnik.

"Interzonal system" in tomato breeding. Trudy VNIIKOP no.5:103-112 '55. (MLRA 9:11)

(Tomato breeding)

ARKHANGEL'SKIY, S.A.; SHCHEPERIN, G.M.

Practice in mapping Lower Paleozoic formations as revealed by a study made in central Kazakhstan. Vop.razved.geofiz. no.4:87-92 '64. (MIRA 19:1)

F ARKHANGEL'SKIY, S.A.

A

770. WORK OF HIGHLY MECHANIZED (COAL) MINES. Arkhangel'skii, S. A., Pesekhev, A. N. and Seregin, S. N. (Ugol (Coal), Nov. 1951, 17-21). Progress in mechanization is described in six mines selected from three Soviet fields. A table gives the stage reached in mechanization of six main operations and only one (loading after cutting and breaking down) is not 100% mechanized in every mine. (L).

ARKHANGEL'SKIY, S. F.

ARKHANGEL'SKIY, S. F. --"Intra- and Inter-Varietal Crossing of Oil-Seed Flax." Odessa, 1956. (Dissertation for the Degree of Candidate in Biological Sciences).

So: Knizhnaya letopis', No 8, 1956, pp 97-103

ARKHANGEL'SKIY, S. I., Engr. Cand. Tech. Sci.

Dissertation: "Synchronization of Firing Through the Circle Covered by Rotation of Single and Coasial Propellers." Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze, 6 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

ARKHANGEL'SKIY, S.F., kand.biol.nauk; BELOSHNICHENKO, G.M.

Effect of the disposition of seeds on a pea plant on the seeding quality and yield. Dokl. Akad. sel'khoz. nauk no.10:14-17 0 '65.
(MIRA 18:12)

1. Vsesoyuznyy selektsionno-geneticheskiy institut.

ARKHANGEL'SKIY, S. I.

"A Program for a Course in the Basic Techniques of Industry and Agriculture in Connection with the Introduction of Polytechnical Instruction for the Geography Faculties of Pedagogical Institute of Higher Learning," a report discussed at one of the 1953 meetings of the Dept. of School Geography, Moscow Affil.,

Izvestiya vses Geog. Obshch., No.5, 1954

ARKHANGEL'SKIY, S.I.

3-58-6-13/34

AUTHOR: Arkhangel'skiy, S.I., Dotsent, Candidate of Technical Sciences

TITLE: A Matter That Requires Everyday Attention (Delo, kotoroye trebuyet povsednevnogo vnimaniya)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, Nr 6, p 56-61 (USSR)

ABSTRACT: The author gives a short historical review on scientific photography and cinematography, and points out the advantages of this means of research. He refers to a regulation of the USSR Council of Ministers of 16 Nov 1947 "On Measures to Introduce Educational and Scientific Cinematography into the Higher School" and emphasizes the considerable amount of work done during the past 10 years in this direction. About 30 moving picture studies and laboratories have been organized in the country's higher educational institutions. The Tsentral'naya kinolaboratoriya Ministerstva vysshego obrazovaniya (Central Cinema Laboratory of the Ministry of Higher Education) is performing important work in systematizing the schools' scientific cinema material and preparing short films as teaching aids. At the Moscow and Leningrad textile institutes, motion of fibers being stretched and the twisting of thread and fiters was recorded with the aid of a camera. This led to a change

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in the technology of the productional process. Interesting processes occurring near critical temperatures, when bodies pass from one state into another, were photographed at the Kiyev University under direction of A.Z. Golik. At the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute), free jets of a liquid were studied by high-speed photography. Professor P.D. Glebov supervised this work. Scientific research with the help of motion pictures is also being conducted at the Moskovskiy stanko-instrumental'nyy institut (Moscow Machine Tool and Instrument Institute). Scientific cinematography is sometimes being used in theses. The doctorate dissertation of M.A. Frishman (Dnepropetrovskiy institut inzhenerov zheleznodorozhnogo transporta - Dnepropetrovsk Institute of Railroad Engineers) was, for instance, dedicated to the examination of questions of railroad track and rolling stock interaction by the method of filming. So far, very little is being done by the vuzes to utilize scientific cinematography in teaching. The author enumerates a number of shortcomings and makes several recommendations on this subject.

ASSOCIATION: Moskovskiy gorodskoy pedagogicheskiy institut imeni V.P. Potemkina (Moscow City Pedagogical Institute imeni V.P. Potemkin)

L 18734-66 EWT(m)/T/EWP(t) JD

ACC NR: AP6005140 (N) SOURCE CODE: UR/0126/66/021/001/0083/0091

AUTHOR: Krishtal, M. A.; Golovin, S. A.; Arkhangel'skiy, S. I.

ORG: Tula Polytechnic Institute (Tul'skiy politekhnicheskiy institut) 53 B

TITLE: Determining the characteristics of dislocation structure by the internal-friction method

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 1, 1966, 83-91

TOPIC TAGS: crystal lattice dislocation, internal friction, torsional vibration, iron

ABSTRACT: The authors estimate the parameters of the dislocation structure (the energy of the bonding between the dislocation line and point defects and the nodes of the dislocation network, the length of dislocation segments, and the dislocation density) according to the curves of the amplitude dependence of the damping of torsional vibrations in metals with body-centered cubic lattice (work-hardened Fe and Mo) with the aid of an experimental setup where the suspension system is excited by means of electromagnets and two mirrors together with two illumination systems serve to simultaneously record the damping vibrations of the specimen by means of photographic attachment and to visually determine the decrement. The damping of vibrations is determined while at the same time successively increasing the level of the stresses applied and measuring the internal-friction background. The critical deformation

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ACC NR: AP6005140

amplitudes associated with marked changes in the mechanism of energy dissipation in the material at various amplitude levels are established and on this basis curves of the amplitude dependence of the decrement are plotted. With the aid of the formulas of Granato and Luecke (J. Appl. Phys., 1956, 27, 583 and 789), the parameters of the dislocation structure are determined from these curves on the basis of a calculation of the energy of bonding between dislocations and impurity atoms on taking into account the correction for entropy. The tabulated data show that dislocation density in annealed armco iron (0.03 wt.% C and N) is appr. 10^7 cm^{-2} and following a 11.2% plastic deformation it increases to $3 \cdot 10^9$; then the length of the dislocation segment changes from 10^{-4} to $2.8 \cdot 10^{-5}$ cm and the energy of bonding between dislocations and impurity atoms is 0.18 ev after annealing of iron and 0.23 ev after its 11% deformation. A similar pattern of variation in the characteristics of dislocation structure is observed for Mo. Orig. art. has: 4 figures, 2 tables, 13 formulas.

SUB CODE: 11, 13, 20/ SUBM DATE: 19Jan65/ ORIG REF: 005/ OTH REF: 008

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L 40060-66 EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) JH/JD/HW/JG

ACC NR: AP6016582 (A) SOURCE CODE: UR/0129/66/000/005/0009/0012

57
55
B

AUTHORS: Golovin, S. A.; Arkhangel'skiy, S. I.

ORG: Tula Polytechnical Institute (Tul'skiy politeknicheskiy institut)

TITLE: Damping of vibrations in various metals 16

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1966, 9-12

TOPIC TAGS: metallography, vibration damping, metal friction, internal friction

ABSTRACT: A study was made of the vibration amplitude dependence of internal friction in metals having a particular type of lattice structure.[16] Measurements were conducted on machinery equipped with a torsional pendulum; small amplitudes were observed visually on the relaxer RKF MIS, and larger amplitudes were recorded with the aid of an optical system. Auxiliary instrumentation included a Feppel-Perts device and oscillograph equipment. Certain aspects of the experimental measurements are described by M. A. Krishtal, S. A. Golovin, and S. I. Arkhangel'skiy (FMM, 1966, t. 21, vyp. 1) and by Yu. K. Favetov (Zavodskaya laboratoriya, 1959, No. 5). Measurements were made of the amplitude variation of the vibration decrement with internal friction in aluminum specimens of varied purity. Parameters in these tests were temperature and metallographic process. Annealed metals (zinc, nickel, aluminum, copper, iron, titanium, and molybdenum) were tested for the temperature-amplitude

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UDC: 620.18:539.67

decrement variation. Other tests gave data on the amplitude variation at homological temperatures and stresses. A constant magnetic field was applied to nickel and steel specimens. The results of the amplitude variations with selected values of field intensity are shown in Fig. 1.

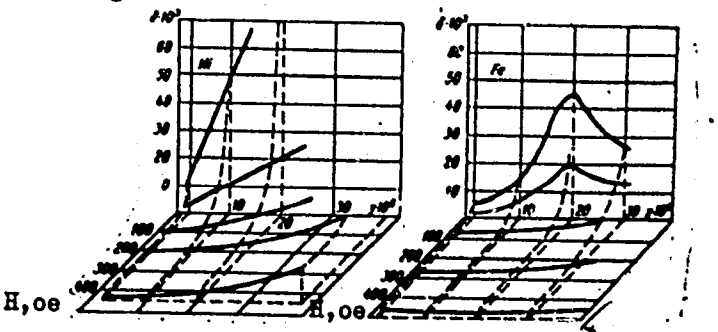


Fig. 1. Amplitude variations of internal friction of nickel and steel in constant magnetic fields of varied intensity.

Orig. art. has: 4 figures.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 003

Card 2/2 gd

ARKHANGEL'SKIY, Sergey Ivanovich; KATSENELENBOGEN, Emmanuil Davidovich; KRASNIKOV, Sergey Nikiforovich; TATURA, G.L., tekhn.red.

[Elementary photography; textbook for pedagogical institutes] Elementarnaia fotografiia; uchebnoe posobie dlia pedinstitutov. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959. 317 p. (MIRA 12:10)

(Photography--Study and teaching)

ARKHANGEL'SKIY, S. KH.

27962. ARKHANGEL'SKIY, S. KH -- Operatsii na simpaticheskoy nervnoy sisteme v neyrokhirurgicheskom gospitale. Yubileynyy sbornik khirurg. Rabot, posvyashch. Prof. Shilovtsevu. Kuybyshev, 1949, S. 60-65.

SO: Letopis' Zhurnal'nykh Statey. Vol. 37, 1949.

ARKHANGEL'SKIY, S. KH.

27890. Sosudistyye svyazi zheludka s okruzhayushchimi organami. Yubileynyy sbornik khirurg. rabot, posvyashch. Prof. Shilovtsevu. Kuybyshev, 1949, S. 91 - 98.

SO: Knizhaya Letopis, Vol. 1, 1956

АРХАНГЕЛЬСКИЙ С.Х.

ARKHANGEL'S'KIY, S.Kh., prof. (Saratov)

Operations on the sympathetic nervous system performaed in a neurosurgical hospital. Medych.zhur. 16:444-449 '47. (MIRA 10:12)

1. Z neyrokhirurgichnogo gospitalya (nachal'nik - pidpolkovnik medichnoi sluzhby S.M.Mirkin).
(NERVOUS SYSTEM, SYMPATHETIC--SURGERY)

ARKHANGEL'SKIY, S.N.; YENDOVITSKAYA, T.V.; NEVEROVICH, Ya.Z.; SOKOLOV, M.V., red.; ALPATOVA, V.V., red.; KOZLOVSKAYA, M.D., tekhn.red.

[Visual aids and experiments for a course in psychology; for pedagogical schools] Nagliadnye posobiia i opyty v kurse psikhologii; dlia pedagogicheskikh uchilishch. Pod red. M.V. Sokolova. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958. 103 p. (MIRA 12:1)

(Psychology--Study and teaching)

AAK [illegible], S. P.

"The XX Congress of the KPSS (Communist Party of the Soviet Union) and the Goals of the Leningrad Dermato-Venerological Society."

Vestnik venerologii i dermatologii (Bulletin of Venerology Dermatology), No 1 January-February 1956 (biomper), Moscow.

ARKHANGEL'SKIY, S.P., professor

"Prophylaxis and therapy of cancer of the skin and mucuous membranes with Gordeev's liquid." V.G.Gordeev. S.P.Arkhangel'skii. Vest. ven. i derm. no.5:59-60 S-O '54. (MLRA 7:11)
(SKIN--CANCER) (MUCOUS MEMBRANE--CANCER)

ARKHANGEL'SKIY, S.P., professor

"Nauchnye zapiski" of the Gorkiy Institute of Dermatology and Venereology and the Department of Skin and Venerial Diseases of the Gorkiy Institute of Medicine, No.17, 1956. Reviewed by S.P. Arkhangel'skii. Vest.derm. i ven. 31 no.3:55-56 My-Je '57.
(SKIN--DISEASES) (MIRA 10:11)
(VENEREAL DISEASES)

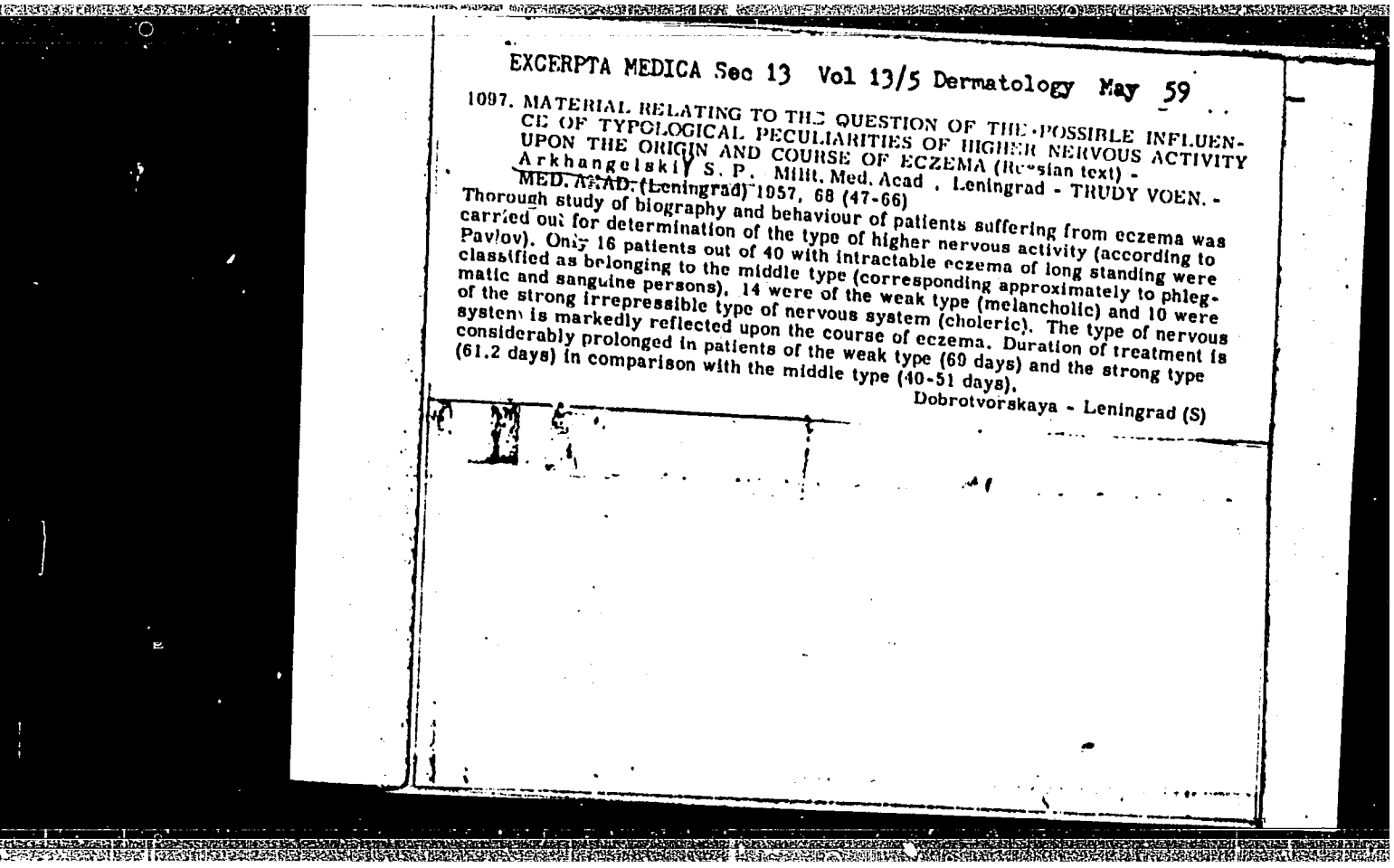
Arkhangel'skiy, S.P.

ARKHANGEL'SKIY, S.P., professor; GORBOVITSKIY, S.Ye., professor; PAVLOV, S.T.; PODVYSOTSKAYA, O.N.; SHTEYNLUKHT, L.A., kandidat meditsinskikh nauk

A short essay on the development of dermatology and venereology in St.Petersburg-Leningrad; on the 250th anniversary of Leningrad. Vest.derm. i ven. 31 no.4:45-53 Jl-Ag '57. (MIRA 10:11)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Pavlov). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Podvysotskaya)

(DERMATOLOGY, hist.
dermato-venereol., in Leningrad)
(VENEREAL DISEASES,
dermato-venereol., hist. in Leningrad)



EXCERPTA MEDICA Sec 13 Vol 13/5 Dermatology May 59

1097. MATERIAL RELATING TO THE QUESTION OF THE POSSIBLE INFLUENCE OF TYPOLOGICAL PECULIARITIES OF HIGHER NERVOUS ACTIVITY UPON THE ORIGIN AND COURSE OF ECZEMA (Russian text) - Arkhangelskiy S. P. Milit. Med. Acad., Leningrad - TRUDY VOEN.-MED. AKAD. (Leningrad) 1957, 68 (47-66)

Thorough study of biography and behaviour of patients suffering from eczema was carried out for determination of the type of higher nervous activity (according to Pavlov). Only 16 patients out of 40 with intractable eczema of long standing were classified as belonging to the middle type (corresponding approximately to phlegmatic and sanguine persons), 14 were of the weak type (melancholic) and 10 were of the strong irrepressible type of nervous system (choleric). The type of nervous system is markedly reflected upon the course of eczema. Duration of treatment is considerably prolonged in patients of the weak type (69 days) and the strong type (61.2 days) in comparison with the middle type (40-51 days).

Dobrotvorskaya - Leningrad (S)

ARKHANGEL'SKIY, Sergey Petrovich

[Suppurative diseases of the skin] Gnoinichkovye bolezni kozhi. Leningrad, Medgiz, 1960. 43 p. (MIRA 14:7)
(SKIN—DISEASES)

GOLOSOVKER, Samuil Yakovlevich, prof.; ARKHANGEL'SKIY, S.P., red.; SHEVCHENKO, F.Ya., tekhn. red.

[Skin diseases in children] Kozhnye zabolevaniia detskogo vozrasta. Leningrad, Medgiz, 1960. 44 p. (MIRA 15:3)
(SKIN—DISEASES) (CHILDREN—DISEASES)

ARKHANGEL'SKIY, S.P., prof.; SHAPOSHNIKOV, O.K., doktor meditsinskikh nauk

"Diseases of the hair" by E.S. Zalkind. Reviewed by S.P. Arkhangel'skii, O.K. Shaposhnikov. Sov. med. 24 no. 7:153-155 Jl '60. (MIRA 13:8)

(ZALKIND, E.S.) (HAIR--DISEASES)

ARKHANGEL'SKIY, S.P., prof.

"Guide book to skin diseases" by A.B. Selisskii. Reviewed by S.P. Arkhangel'skii. Vest.derm.i ven. no.12:68-69 '61.
(MIRA 15:1)

(SKIN--DISEASES) (SELISSKII, A.B.)

KOZHEVNIKOV, Petr Vasil'yevich, prof.; ARKHANGEL'SKIY, S.P., prof., nauchnyy red.; VOROB'YEV, G.S., red.; PETROVA, M.P., tekhn. red.

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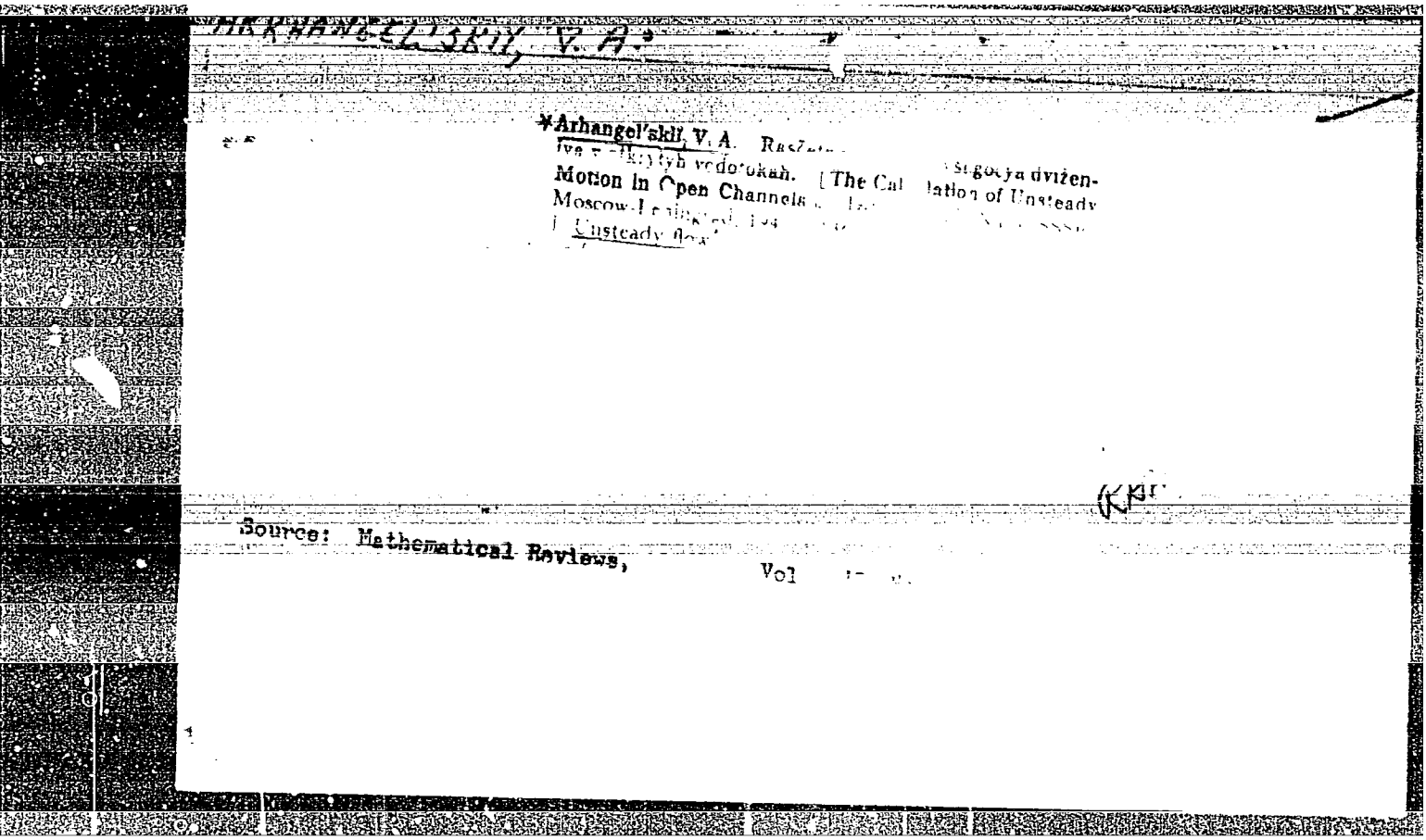

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538. Application to calculation of the unstable filtration of gas-charged crudes of the method of changeable stationary states. V. A. Arkhangel'skii. *Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk*, 1954, (7), 133–45.—Problem of the unstable filtration of gas-charged crude cannot, strictly speaking, be solved. At present this problem is investigated by the method of changeable stationary states, in which the values for the discharge of gas and of crude, and consequently the gas factor, are assumed, for a given instant, to be the same for the entire cross-section of the filtering flow. An evaluation of the errors introduced by such an assumption can be made by comparing the figure obtained by the method of changeable stationary states with a solution of the equation for the unstable filtration by the method of finite differences.

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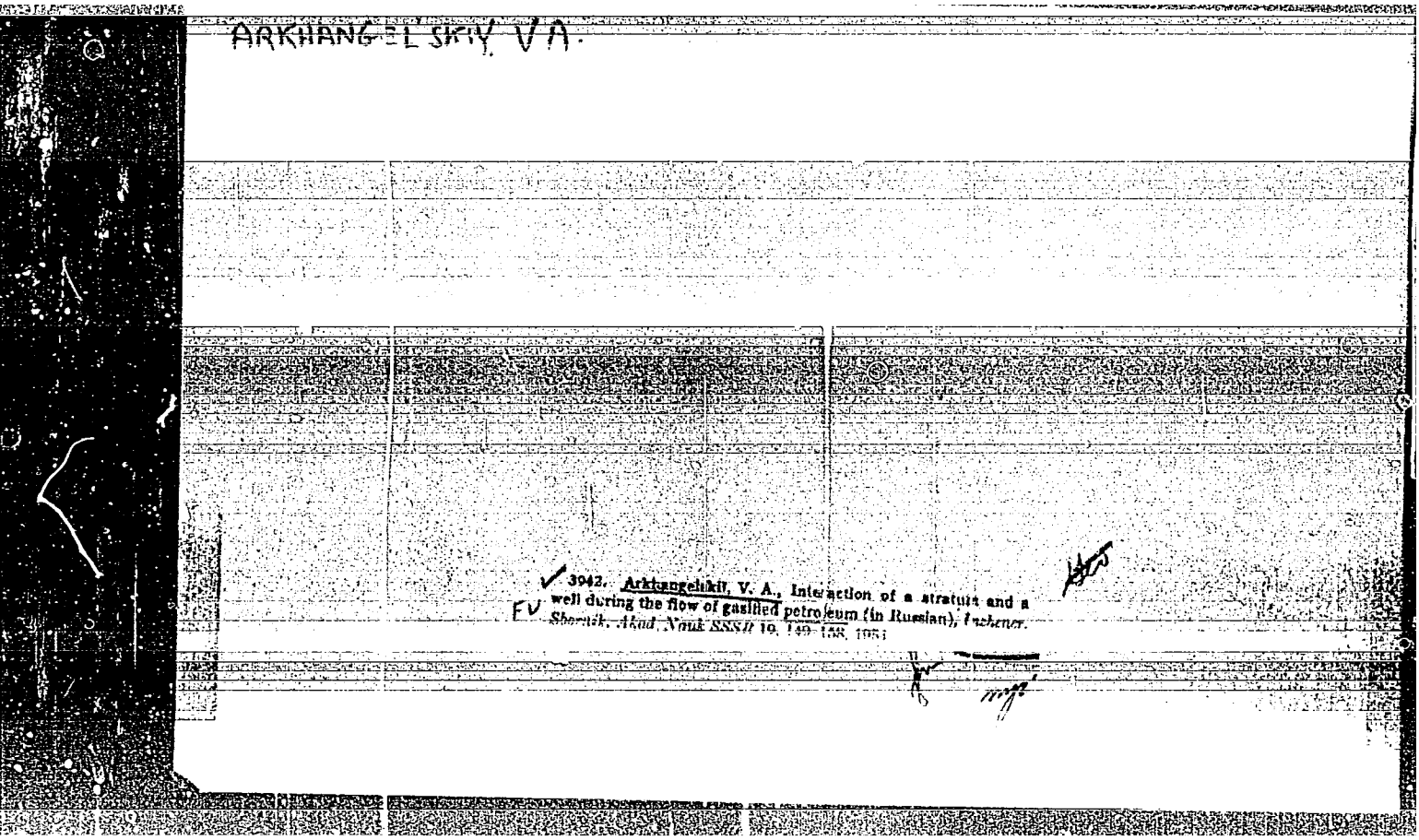

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Academic degree of Doctor of Technical Sciences, based on his defense, 30 June 1955, in the Council of the Inst of Mechanics Acad Sci USSR, of his dissertation entitled: "The movement of aerated oils in a system of porous strata."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 222, 12 Nov 55, Byulleten' MVO SSSR, No. 19, Oct 56, Moscow, pp. 13-24, Uncl. JPRS/NY-536

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SOV/124-57-4-4457

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 84 (USSR)

AUTHOR: Arkhangel'skiy, V. A.

TITLE: Calculation of the Motion of Gas-liquid Mixtures in Vertical Pipes (Raschety dvizheniya gazozhidkostnykh smesey v vertikal'nykh trubakh)

PERIODICAL: V sb.: Gidrodinamika i teploobmen pri kipenii v kotlakh vysokogo davleniya. Moscow, AN SSSR, 1955, pp 35-45

ABSTRACT: The author proposes a method for the computation of gas-air lifts based on the employment of the following relationships:

$$a = \left(\frac{\phi}{1-\phi} + \frac{w_r}{w_o'}\phi\right) p \qquad (1b)$$

$$dx + p_o \frac{dp^*}{\gamma} + \frac{1}{2g} dw^2 + \frac{\gamma_2 p^* \phi}{g \gamma} d\left(w w_r + \frac{w_r^2}{2}\right) + I\,dx = 0 \qquad (2)$$

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Calculation of the Motion of Gas-liquid Mixtures in Vertical Pipes

$$\Gamma_V = \frac{\gamma_2 [\alpha + s_o(p^* - 1)]}{\gamma_L - s_o(p^* - 1)\gamma_2} = \text{const.} \qquad (3)$$

where α is the ratio of the volume of gas to the volume of the liquid; w, the velocity of the liquid; w_0', the reduced velocity of the liquid; w_r, the relative velocity of the gas; $p^* = p/p_0$, the relative pressure; γ, γ_2, and γ_L, the densities of the mixture, the gas, and the liquid, respectively; I, the coefficient of losses; s_o, the coefficient of solubility of gas in the liquid; x, the distance along the axis of the pipe, and ϕ, the volumetric gas content. Equation (2) defines the motion of the mixture, while expression (3) is an equation of continuity. Experiments conducted by A. P. Krylov [Murav'yev, I. N., Krylov, A. P. Kurs ekspluatatsii neftyanykh mestorozhdeniy (A Course in the Exploitation of Petroleum Deposits), 1940] are utilized in the determination of values of ϕ, w_r, and I; it is then possible to express these values as functions of α/p^*, w_0', and the diameter of the pipe, D. Equation (2) is rewritten in the form

$$\Delta x = - p_o \frac{p^*}{\gamma_{mean}} - I_{mean} \Delta x$$

Calculation of the Motion of Gas-liquid Mixtures in Vertical Pipes

the inertia terms being disregarded in the course of the computation. Examples of the computation of the length L of the lift are presented and the results obtained are compared with experimental data taken from literature sources. The article is poorly edited; equation (2) is given incorrectly. Its proper form, in which it appears in this abstract, may be found in the preceding article by the same author (Inzhenernyy sbornik 1949, Vol 5, Nr 2, pp 181-189, equations 5 and 15). Bibliography: 5 references.

A. A. Armand

Card 3/3

[illegible] Petroleum FD-3018

Card 1/1 Pub. 41 - 2/15

Author : Arkhangel'skiy, V. A., Moscow

Title : The movement of gaseous petroleum in the well-strata system

Periodical : Izv. AN SSSR, Otd. Tekh, Nauk 9, 14-36, Sep 55

Abstract : Computes flow of gaseous petroleum in a well-strata system, taking into account time, gas factor, and well and strata pressure. Presents mathematical solutions of various flow problems. Tables, graphs, formulae. Five references, all USSR.

Institution:

Submitted : June 17, 1955

RABINOVICH, Yefim Zinov'yevich; ARKHANGEL'SKIY, V.A., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor.

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CHARNYY, I.A., (Moskva); ARKHANGEL'SKIY, V.A., (Moskva)

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(Water, Underground) (Soil percolation)

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Institute of Mechanics, USSR Academy of Sciences, Moscow.

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RABINOVICH, Yefim Zinov'yevich; ARKHANGEL'SKIY, V.A., red.; PLAKSHE, L.Yu., tekhn. red.

[Hydraulics] Gidravlika. Izd.3., ispr. i perer. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 403 p. (MIRA 15:2)
(Hydraulics)

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E032/E314

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AUTHOR: Arkhangel'skiy, V.A. (Moscow)

TITLE: Approximate Method for the Determination of an Optimum System

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1961, No. 1, pp. 133 - 142

TEXT: The problem is formulated as follows. Suppose that

$$Z(t) = \varphi(t, U) + X(t) \qquad (1.2)$$

where $\varphi(t, U)$ is the required function which depends on the random parameter U, and
$X(t)$ represents a random interference.

It is required to obtain the best approximation $W^*(s')$ to a random function $W(s')$ using the known values of $Z(t)$ for $s - T \leqslant t \leqslant s$. The random function $W(s')$, which is defined as the "reproduced signal", also depends on the

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Approximate Method for ....

random parameter, e.g.

$$W(s') = \Psi(s', U) \qquad (1.3) .$$

The random parameter U can be either a scalar or a vector and its distribution is assumed to be defined by the appropriate probability density $f(u)$. It is assumed further that the interference term $X(t)$ is distributed in accordance with the normal distribution law and is statistically independent of U . The relation between the observed random function $Z(t)$ and the estimate of the reproduced signal $W^*(s')$ can be obtained with the aid of the operator A so that

$$W^*(s') = AZ(t) \qquad (1.4) .$$

Thus, the problem of determination of the optimum system subject to the usual optimisation criterion

$$\rho = M[\ell(W(s'), W^*(s'))] = \min \qquad (1.1)$$

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where ℓ is the so-called loss function and
ρ is the average risk

can be reduced to the determination of the form of the operator A , which would ensure a minimum of the mathematical expectation of the function ℓ . It was shown by Pugachev in Refs. 1 and 2 that in order to solve this problem it is sufficient to find an operator A which will satisfy the following condition

$$M\left[\ell\ (W,\ AZ)\middle|\ldots Z\right] = \min \qquad (1.5)$$

where the lefthand side of Eq. (1.5) is the conditional mathematical expectation of the function ℓ with respect to the random function Z . The conditional distribution law $f(u|Z)$ of the random parameter U with respect to the random function Z(t) , which is necessary in order to compute the lefthand side of Eq. (1.5), was shown by Pugachev to be given by

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Approximate Method for ....

$$f(u|Z) = \frac{f(u)\exp\left\{\int_T g(s,t,u)\,Z(t)\,dt - \frac{1}{2}\beta(u)\right\}}{\int_{-\infty}^{+\infty} f(u)\exp\left\{\int_T g(s,t,u)\,Z(t)\,dt - \frac{1}{2}\beta(u)\right\}du} \qquad (1.6)$$

where

$$\beta(u) = \int_T g(s,t,u)\,\varphi(t,u)\,dt \qquad (1.7)$$

and the weight function $g(s, t, u)$ is the solution of the integral equation

$$\int_T K_x(t,\tau)\,g(s,\tau,u)\,d\tau = \varphi(t,u) \qquad (1.8)$$

where $K_x(t, \tau)$ is the correlation function of the interference term $X(t)$. Substituting Eq. (1.6) into (1.5),

Approximate Method for ....

it is found that the problem of the determination of the optimum approximation to a random function is reduced to the determination of $W^*(s')$ in accordance with the condition:

$$\int_{-\infty}^{+\infty} l(W(s'), W^*(s')) f(u) \exp\left\{\int_T g(s, t, u) Z(t)\, dt - \frac{1}{2}\beta(u)\right\} du = \min \qquad (1.9)$$

This formalism is then used to obtain an approximate expression for the conditional distribution law $f(u|Z)$. This is done by assuming that the domain of practically possible values of U, after the observation of the random function $Z(t)$ (i.e. the a posteriori values of U) is small compared with the domain of practically possible a priori values of U. It is shown that under this assumption the conditional distribution law $f(u|Z)$ approaches the normal distribution law, with the mathematical expectation $\bar{U}_Z$ defined as the solution of the integral equation

Approximate Method for ....

$$\int_T g_u'(s, t, \overline{U}_z)\, z(t)\, dt - \int_T g_u'(s, t, \overline{U}_z)\, \varphi(t, \overline{U}_z)\, dt = 0 \qquad (2.9)$$

and a variance D_{uz} given by

$$c = \frac{1}{D_{uz}} = \int_T g_u'(s, t, \overline{U}_z)\, \varphi_u'(t, \overline{U}_z)\, dt \qquad (2.12).$$

In other words, it is shown that

$$f(u|Z) \approx \sqrt{\frac{c}{2\pi}} \exp\left\{-\frac{c(u-\overline{U}_z)^2}{2}\right\} \qquad (2.11).$$

The next part of the paper is concerned with the optimum ostimate of the random parameter U . It is assumed that the optimum ostimate can be obtained by determining the minimum of the root mean square error from Eq. (2.9).

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However, this cannot be done exactly but an approximate procedure is described. It is shown that the operator for the optimum estimate of U using the criterion involving the minimisation of the root mean square error is, in general, a nonlinear operator and, in fact, a nonlinear function of the quantities obtained after application of the linear integral operators:

$$A_i Z = \int_T g^{(i)}(s, t) Z(t) dt \qquad (3.7)$$

to the observed random function $Z(t)$. The weight functions $g^{(i)}(s, t)$ are defined by expanding $\varphi(t, u)$ so that

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Approximate Method for S/024/61/000/001/006/014
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$$\varphi(t, u) \approx \sum_{i=0}^{m} \Phi_i(u)\varphi_i(t) \qquad (3.1)$$

which applies in the domain of practically possible a priori values and the weight functions $g^{(i)}(s, t)$ are then defined by

$$g(s, t, u) \approx \Phi_i(u)g^{(i)}(s, t) \qquad (3.2)$$

and can be determined as the solution of the integral equation

$$\int_T K_x(t, \tau)g^{(i)}(s, \tau)d\tau = \varphi_i(t) \qquad (3.3) .$$

The last section is concerned with the optimum estimate of the reproduced signal using the general Bayes criterion

Card 8/10 $$\rho = M[\ell(W(s'), W^*(s'))] = \min \qquad (1.1) .$$

Approximate Method for ....

To obtain this estimate, the function $W(s')$ is represented approximately by

$$W(s') = \psi(s', U) \approx \psi(s', \bar{U}_z) + (U - \bar{U}_z)\left[\frac{\partial \psi(s', U)}{\partial U}\right]_{U=\bar{U}_z} \qquad (4.1)$$

and assuming a normal distribution law for $f(u|Z)$, it is found that the appropriate condition is

$$M[l(W(s'), W^*(s'))|Z] = \int_{-\infty}^{+\infty} l(\psi(s', u), W^*(s')) \frac{1}{\sqrt{2\pi D_{uz}}} e^{-\frac{(u-\bar{U}_z)}{2D_{uz}}} du = \min \qquad (4.6)$$

It thus turns out that the problem of determination of the optimum value $W^*(s')$ can be reduced to the determination of the optimum estimate of the parameter U using the criterion involving the minimisation of the root mean square error and the computation of a certain function of s', $\bar{U}_z$ and D_{uz}. The paper is concluded with a consideration of two special cases. There are 3 Soviet references.

Card 9/10

ARKHANGEL'SKIY, V.A.; KARTVELISHVILI, N.A.; MIKHAYLOV, G.K.

On E.P.Kovalenko's investigations on the "Unsteady flow of water in open beds." Izv.AN SSSR.Otd.tekh.nauk.Mekh. i mashinostr. no.4:183-184 Jl-Ag '62. (MIRA 15:8)
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ARKHANGEL'SKIY, V.A. (Moskva); AUZBAYEV, D. (Bugul'ma); BASHKIROV, A.I. (Bugul'ma); VAILI'YEV, Yu.N. (Bugul'ma); MAKSUTOV, R.A. (Bugul'ma)

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(Oil reservoir engineering)

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211 p. Illus., Diagrs., Tables.
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