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"The International Atomic Exhibition in Amsterdam."

p. 92 (Przeglad Techniczny) Vol. 79, no. 3, Feb. 1958
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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Notes on projects of ships with atomic-energy propulsion. p. 114.

BUDOWNICTWO OKRETOWE. (Stowarzyszenie Inzynierow i Techników Mechaników Polskich, Sekcja Okretowcow) Warszawa, Poland.
Vol. 4, no. 4, Apr. 1959.

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The Italian experimental nuclear reactor "RS-1". Bud okretowe Warszawa 6 no.10:321-323 '61.

(Italy--Nuclear reactors)

NOCON, Przemyslaw, mgr.inz.

Present problems of nuclear propulsion drive for ships. Pt. 1. (To be contd.). Bud okretowe Warszawa 7 no.8:270-275 Ag '62.

1. Centralne Biuro Konstrukcji Okretowych nr 1, Gdansk.

NOCON, Przemyslaw, mgr inz.

Current problems of nuclear ship propulsion. II. Bud okretowe Warsawa 7 no.9:300-305 S '62.

1. Centralne Biuro Konstrukcji Okretowych nr.1, Gdansk.

NOCOŃ, Przemysław, mgr inż.

Nuclear propelling of ships. Horyz techn 16 no.12:6-8 D'63.

CWIAKALA, Antoni; GRENDA, Jozef; CWIAKALA, Ryszard; PEDRYCZ, Wincenty; NOCUN, Patryojusz

Evaluation of hand sterilization for surgery. Wiad. lek. 18 no. 21:Suppl.:25-29 15 N '65.

1. Z Wojewodzkiej Stacji Sanitarno-Epidemiologicznej w Kielcach (Dyrektor: lek. med. A. Cwiakala) i z Oddzialu Chirurgicznego Szpitala Wojewodzkiego w Kielcach (Ordynator: dr. med. J. Grenda).

NOCZNICKI, T.

After general meetings. p. 2. (Rolnik Spoldzielca, Vol. 9, No. 30, July 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

KODA, Zb., inzhener-normirovshchik.

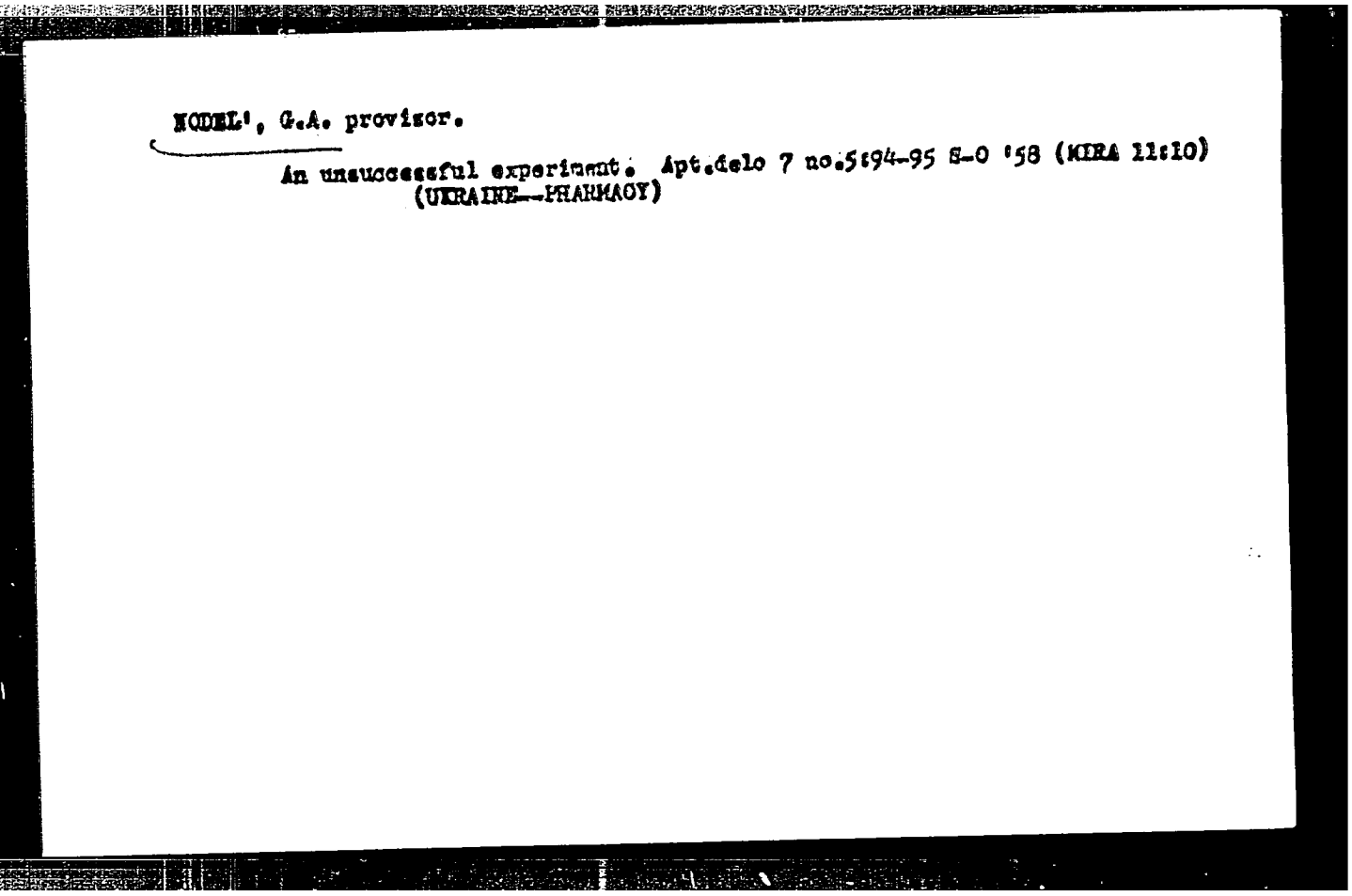
Shortcomings which can be eliminated by the ministry. Sots. trud. no.1:132-133 Ja '57. (MLRA 10:4)

1. Zaporozhskiy maslozhirkombinat.
(Food industry--Production standards)

NODEL', Bella Izrailevna; KARAKOZOVA, N.Sh., red.; KL'KINA, E.M., tekhn.red.

[Acceptance of foodstuffs by quantity and quality] Priemka prodovol'stvennykh tovarov po kolichestvu i kachestvu. Moskva, Gos.izd-vo torg.lit-ry, 1961. 100 p. (MIRA 14:4)

(Food industry) (Delivery of goods)



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An unsuccessful experiment. Apt.delo 7 no.5:94-95 S-O '58 (MIRA 11:10)
(UKRAINE--PHARMACY)

NODEL', GLA. (Sumy)

Fight for the title of Collective of Communist Labor; from the work experience of a drugstore in a factory district. Apt. delo 11 no.2:51 Mr-Ap '62. (MIRA 15:5)

(SUMY--DRUGSTORES)

NODEL', G. M.

Use of atomized fluids is economically expedient. Mashinostroitel' no.12:35 D '62. (MIRA 16:1)

(Metalworking lubricants)

NODEL', L.A.

Significance of tuberculin reactions in diagnosis of tuberculosis in children. Vopr.pediat. 18 no.6:12-6 1950. (CLML 20:5)

1. Of the Department of Children's Diseases (Head--Prof.V.F.Znamenskiy), Leningrad Sanitary-Hygienic Medical Institute (Director-Prof.D.A.Zhdanov, Corresponding Member of the Academy of Medical Sciences).

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B019/B054

24.3700

AUTHOR: Nodel'man, A. Ya.

TITLE: Method of Determining the Optimum Image Given by Optical Systems With Consideration of the Aberrations of 3rd Order

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1960, Vol. 3, No. 3, pp. 85 - 91

TEXT: The new method described in the present paper is intended for determining the optimum image from the standpoint of linear dimensions of dispersion figures. It is based on the use of the mathematical extreme-value theory. Two quantities a and b are introduced which represent the linear quantities of the dispersion figures in the image plane; $\Phi^2 = a^2 + b^2$ (1) is indicated as a characteristic function. By means of the variation theory, those parameters of the optical system are determined, for which (1) is a minimum. Formulas (15) are derived for a^2 and b^2; they show that the characteristic function is expressed by the coefficients of the aberration of third order, and thus depends on

Card 1/2

Method of Determining the Optimum Image Given by Optical Systems With Consideration of the Aberrations of 3rd Order

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B019/B054

the parameters of the optical system. The publication of this article was recommended by the Kafedra teorii opticheskikh priborov (Chair of the Theory of Optical Instruments). There are 3 figures and 1 Soviet reference.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: January 25, 1960

Card 2/2

NODEL'MAN, A.Ya.

Using the method of optimum image in calculating optical systems.
Izv.vys.ucheb.zav.; prib. 3 no.4:69-84 '60. (MIRA 13:9)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekom. kafedroy teorii opticheskikh priborov.
(Optical instruments)

MODEL'MAN, A.Ya.

A method for determining the dimensions of the scattering figure produced by optical systems. Izv.vys.ucheb.zav.; prib. no.3:99-106 '62. (MIRA 15:8)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy vysshey matematiki.
(Light—Scattering) (Optical instruments)

MODEL'MAN, G.I.; YANCHENKO, V.F., kandidat tekhnicheskikh nauk, retsenzent; BITMAN, B.L., inzhener, redaktor; DUGINA, N.A., tekhnicheskiy redaktor.

[Turbine mechanic; general turbine installation] Slesar'-turbinist; obshchaia sborka turbin. Moskva, Gos.nauchno-tekhnich.izd-vo mashinostroit.lit-ry, 1955. 134 p. (MLRA 8:11)
(Turbines)

NODEL'MAN, V.M.

Increasing the level of mechanization in the woodworking and furniture industries. Bum. i der. prom. no.4:10-14 O-D '65. (MIRA 18:12)

OLIN, F.C.; HODEL'MAN, V.M.

Lumber drying chambers (KOS-60) operated on the combustion products of natural gas. Bum. 1 der. prom. no.4:23-26 0-D '65. (MIRA 18:12)

GEYVIN, S.L.; NODEL'MAN, M.A.

Review of A.I.Shimanko and A.K.Mel'nichenko's book "Organization of pharmaceutical work." Aptech. delo 12 no.3:82-83 My-Je'63 (MIRA 17:2)

NODEL'MAN, M.O.

Efficient chip breaking. Stan.i instr. 30 no.4:38-39 Ap '59. (MIRA 12:6)
(Metal cutting)

NODEL'MAN, M.O.

Parameters of cutting tools with small holes. Stan.i instr. 33 no.12:35-36 D '62. (MIRA 16:1)
(Metal-cutting tools)

NODEL'MAN, V.M.; DYACHUN, Z.I.

Functional requirements of chair design. Der. prom. 12 no.10: 13-14 O '63. (MIRA 16:10)

1. L'vovskiy proyektno-konstruktorskiy institut legkoy promyshlennosti.

NOVEL'MAN, V.M.

Overall mechanization of operations in the lumberyards of small capacity sawmills and woodworking enterprises. Bum. i der. prom. no.3:12-14 Jl-S '65. (MIRA 18:9)

KRAMARENKO, G.N., kand.med.nauk; NECHAYEVA, Z.P.; TKACHENKO, S.S., kand.med.nauk; MODEL'MAN, V.S.; ANCHELEVICH, V.D., prof.; KURILO, A.A.; KNYSH, I.T., kand.med.nauk; PRIKHOD'KO, A.K.; MEZHENINA, Ye.P., kand.med.nauk

Reports on meetings of societies of traumatologists and orthopedists. Ortop.travm. i protez. 20 no.7:79-95 Jl '59. (MIRA 12:10)

(ORTHOPEDIA)

SOROKINA, A.I., prof., otv. red.; NODEL'MAN, V.S., red.

[Materials of the Out-of-town Session of the All-Union Institute of Experimental Endocrinology, September 4-7, 1963] Materialy Vyezdnoi nauchnoi sessii Vsesoiuznogo instituta eksperimental'noi endokrinologii, 4-7 sentiabria 1963 g. Irkutsk, 1963. 122 p. (MIRA 17:11)

1. Vsesoyuznyy institut eksperimental'noy endokrinologii.
2. Zaveduyushchiy kafedroy obshchey khirugii Irkutskogo meditsinskogo instituta (for Sorokina).

KAUFMAN, M.M., inzhener; GLEYBERG, A.Z., inzhener; NODEV, E.O., inzhener; SHANIN, P.K., inzhener.

Practice in pipe reduction by tension. Stal' 16 no.6:541-545 Je '56. (MLRA 9:8)

1. Pervoural'skiy Novotrubnyy zavod.
(Rolling (Metalwork)) (Pipe, Steel)

PLYATSKOVSKIY, O.A., kand.tekhn.nauk; Prinimali uchastiye: OSLON, N.D.; NODEV, E.O.; DEVYATISIL'NYY, V.I.; SULTINSKIKH, A.N.; SHANIN, P.K.; KUKARSKIKH, V.I.; RAKHNOVETSKIY, L.Y.; DUYEV, V.N.

New technological processes used in rolling 102-170 mm. diameter pipes of stainless steel 1Kh18N9T. Biul.nauch.-tekh.inform.VNITI no.4/5:24-30 '58. (MIRA 15:1)

(Pipe mills)

OSADCHIY, V.Ya.; KAUFMAN, M.M.; NODEV, E.O.; RAKHNOVETSKIY, L.S.

New gauging of mandrels used in broaching stainless steel. (MIRA 11:7)
Biul. TSNIICHM no. 10:45-46 '58.

1. Moskovskiy institut stali(for Osadchiy). 2. Pervoural'skiy Novotrubnyy zavod(for Kaufman, Nodev, Rakhnovetskiy).
(Broaching machines)

PLATSKOVSKIY, O.A., kand. tekhn. nauk; OSLON, N.L., kand. tekhn. nauk; NODEV, K.O., inzh.

Rolling medium-diameter pipes of stainless steel with high deformation ratios. Obr. met. davl. no.5:129-142 '59. (MIRA 13:3)

1.Vsesoyuznyy nauchno-issledovatel'skiy trubnyy institut (for Platskovskiy). 2.Novotrubnyy zavod (for Oslon, Nodev)
(Rolling (Metalwork)) (Steel, Stainless)

SHVEYKIN, V.V.; ORLOV, S.I.; KAUFMAN, M.M.; STOLETNIY, M.F.; NOSOV, E.O.
STERN, V.A.; ORLOV, V.A.

Guillotine shears for the hot cutting of round ingots. Metallurg 9 no.1:35-36 Ja '64 (MIRA 18:1)

1. Ural'skiy politekhnicheskiy institut, Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov i Petrourel'skiy novotrubnyy zavod.

MATVEYEV, Yu.M., doktor tekhn. nauk; VYDRIN, V.N., doktor tekhn. nauk; FINKEL'SHTEYN, Ya.S., kand. tekhn. nauk; KAUFMAN, M.M., kand. tekhn. nauk; GLEYBERG, A.Z., kand. tekhn. nauk; NOVIKOV, A.G., inzh.; SITNIKOV, L.L., inzh.; NODEV, E.O., inzh.; STOLETNIY, M.F., inzh.; STERN, V.A., inzh.; FRIDMAN, D.S., inzh.

Operating conditions and wear of mandrels on the continuous billet mill of a 30-102 pipe rolling unit. Stal' 25 no.10: 930-934 O '65. (MIRA 18:11)

NODIA, M. A.

New methods in field measurements by means of magnetic scales Tbilisi, Izd-vo Akademii nauk Gruzinskoi SSR, 1951. 49 p. (52-37790)

QC827.N6

NODIA, M. E.

19825 NODIA, M. E.

O nekotorykh vozmozhnostyakh sokrashcheniya chisla posadok magnitnoy sistemy vesov shmidta

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SO LETOPIS ZHURNAL STATEY -No., 27, Moskva, 1949

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Nodia, M. Z. "Magnetic Micro-Survey in the Lanchkhutsk and Ozurgetsk Regions." Trudy Tbilisskogo Geofizicheskogo Instituta, vol. 1, 1936, pp. 1-22.

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Nodia, M. Z. "Magnetic Micro-Survey in Tsedani," Trudy Tbiliskogo Geofizicheskogo Instituta, vol. 1, 1936, pp. 23-38.

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Nodia, M. Z. "The Achievements of Geophysics in the Georgian S. S. R." Trudy Tbiliskogo Geofizicheskogo Instituta, Tbilisi, vol. 2, 1937, pp. 5-15.

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Nodia, N. Z. "The Magnetic Field of the Caucasus." Informatsionnyi Sbornik po Zemnomu Magnetizmu i Elektrichestvu, Leningrad, No. 4, 1937, pp. 22-23.

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Nodia, M. Z. "Magnetic Micro-Surveys in the Regions of Stepanavan, Akhtal and Sandari." Trudy Tbilisskogo Geofizicheskogo Instituta, vol. 3, 1938, pp. 109-12[illegible].

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NODIA, M. Z.

Acad. Sci., Gruzian SSR., Inst. Physics and Geophysics) (-1945-)

"About some possibilities of making absolute magnetic determinations with the help of Schmid's Balance, "

IZ.Ak. Nauk SSSR, Georgraf. i Geofiz., No. 5-6, 1945.

Geophysical & Extraterrestrial Phenomena

2787

538.71(479.22)

100 Years of Magnetic Observations at Tbilis (Tiflis). — M. Z. Nodia. (Vestnik Akad. Nauk. S.S.S.R., 1946, No. 7, pp. 47-53. In Russian.)

NODIA, M.Z.

Some possibilities of measuring the vertical gradient of an anomalous magnetic field by means of the Schmidt balance. Soob. AN Gruz.SSR 8 no.6:373-378 '47. (MIRA 9:7)

1.Akademiya nauk Gruzinskoy SSR, Institut fiziki i geofiziki, Tbilisi. Predstavleno deystvitel'nym chlenom Akademii I.N.Vekua.
(Magnetism, Terrestial)

NODIA, M.Z., professor.

Pavel Mikhailovich Nikiforov. Trudy Inst.geofiz.AN Gruz.SSR 10: v-ix '47. (MLRA 9:8)
(Nikiforov, Pavel Mikhailovich, 1884-1944)

MODIA, M.Z.

Results of the reconnaissance magnetic survey of certain sections in the vicinity of the Chatakhskoye (Bolnisi) iron ore deposits in 1940. Trudy Inst.geofiz.AN Gruz.SSR 10:53-67 '47. (MLRA 9:8)

(Bolnisi--Iron ores)
(Bolnisi--Magnetism, Terrestial)

NODIA, M. Z.

"Radar" (Radiolokatsiya), State Publishing House of the Georgian SSR, 1949, 40 pp.

KODIA, M.Z.

PA 43/49T69

USSR/Geophysics
Geomagnetism
Meteorology

Mar/Apr 49

"Report on Progress of Geophysical Works in the Georgian SSR" on the Thirty-First Anniversary of the Great October Socialist Revolution," Prof M. Z. Kodia, Inst of Phys and Geophys, Acad Sci Georgian SSR, 10½ pp

"Iz Ak Nauk SSSR, Ser Geog i Geofiz" No 2

Describes condition of geophysical work under old Russian regime and its development as an independent science during Soviet period. Soviets reorganized Tbilisi Phys Obs, founded the GAO (Geophys Obs of Georgia) and the UGMS (Adm of Hydrometeorol Sv) in Georgian SSR. The TGO (Tbilisi Geophys Obs) is now affiliated to the former. Considerable work was performed in various branches of geophysics, including studies of atmospheric-physical conditions and structure of magnetic field in Georgian SSR and Transcaucasia.

43/49T69

NODIA, M. Z.

35201. Novyy Vid Vspomogatel'nykh Magnitov K Vesam Shmidta Dlya Kompensatsii Anomal'nykh Poley Vysshego Poryadka. Soobshch. Akad. Nauk Gruz. SSR, 1949, No. 5, s. 267-73

SO: Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

New type of accessory magnets for Shmidt balances

NODIA, M.Z. (Tbilisi)

Magnetic observations in Karsani (near Tiflis) in 1931 [in Georgian with summary in Russian]. Trudy Inst.geofiz.AN Gruz.SSR 11:7-83 '49. (MLRA 9:8)

(Karsani--Magnetism, Terrestial--Observations)

NODIA, M.Z. (Tbilisi)

Some data and conclusions relative to the microstructure of a local anomalous magnetic field. Trudy Inst.geofiz.AN Gruz.SSR 11: 85-100 '49. (MLRA 9:8)

(Magnetism, Terrestial)

USSR/Geophysics - Anomalous Magnetic Field Mar 51

"New Type of Platform for Measurement of Vertical Gradient of Anomalous Magnetic Field Using Field Magnetic Scales," M. Z. Nodia, Inst of Phys and Geophys, Tbilisi, Acad Sci Georgian SSR

"Soobshch Ak Nauk Gruz SSR" Vol XII, No 3, pp 136-139

Suggests replacing heavy platform, carrying instrument and observer, by 2 light ones, one for instrument with adjustable height and not bending under observer's weight, and the other for observer.

206T62

USSR/Geophysics - Anomalous Magnetic Field (Contd) Mar 51

These platforms were used in 1947. (cf. Ibid. Vol VIII, No 6, 1947; Vol IX, No 7, 1948). Reported 11 Oct 50 by A. I. Didebulidze. Received 14 Oct 50.

206T62

NODIA, M. Z.

1. NODIA, M. Z.

2. USSR (600)

4. Magnetic Measurements

7. New method of working out field magnetic observations made with the aid of magnetic scales. Soob. AN Gruz. SSR 12, No. 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

NODIA, M. Z.

Investigation Results of a Superintensive Untralocal Magnetic Anomaly

Results of a magnetic survey of an intense local magnetic anomaly in Georgian SSR are presented. The area has 200 sq m. The vertical component deviates by 0.7 oersteds, the horizontal by 0.3 oersteds. Magnetic ores reaching the surface are the source of the anomaly. (RZhFiz, No. 8, 1955) Soobshch. AN Gruz SSR, 14, No. 4, 1953, 211-216.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

NODIA, M.Z.

Investigation of microterritorial distribution of secular variations in the earth's magnetic field. Soob.AN Gruz.SSR 14 no.8:467-471 '53. (MLRA 7:5)

1. Akademiya nauk Gruzinskoy SSR, Institut geofiziki.
2. Tbilisskiy gosudarstvennyy universitet im. Stalina.
Predstavleno deystvitel'nym chlenom Akademii V.D.Kupradze.
(Magnetism, Terrestrial)

KODIA, M.Z., professor; BUKHNIKASHVILI, A.V., redaktor

[Magnetic observations in Karsani during 1932] Magnitnye nabliudeniia v Karsani v 1932 godu. Tbilisi, 1955. 83 p. (MLRA 9:3)

1. Direktor instituta geofiziki AN Gruzinskoy SSR (for Bukhnikashvili) 2. Akademiya nauk Gruzinskoy SSR, Tiflis. Geofizicheskiy institut.
(Karsani--Magnetism, Terrestrial)

MODIA, M.Z.

Methods of studying the microterritorial and microtemporal secular variation of a terrestial magnetic field. Trudy Inst.geofiz. AN Gruz.SSR 14:7-13 '55. (MLRA 9:9)

1.Institut geofiziki Akademii nauk GSSR, Tbilisi.
(Magnetism, Terrestrial)

KODIA, M.Z.

Some remarks relating to regional and local anomalies of secular variation of the earth's magnetic field. Soob.AN Gruz.SSR 16 no.8: 591-597 '55. (MLRA 9:5)

1. Akademiya nauk Gruzinskoy SSR, Institut geofiziki, Tbilisi. Predstavleno deystvitel'nym chlenom Akademii V.D. Kupradze.
(Magnetism, Terrestrial)

NODIA, M.Z.

The Tiflis-Karsani-Dusheti Magnetic Observatory. Trudy Inst. geofiz.AN Gruz.SSR 17:47-71 '58. (MIRA 13:4)

1. Institut geofiziki AN GruzSSR, Tbilisi.
(Georgia--Magnetism, Terrestrial--Observatories)

KODIA, M.Z.; BERISHVILI, G.P.; MATSABERIDZE, V.S.

Some results of investigating microterritorial and microtemporal secular variations of the earth's magnetic field in eastern Georgia. Trudy Inst.geofiz.AN Gruz.SSR 17:73-79 '58. (MIRA 13:4)
(Georgia--Magnetism, Terrestrial)

KODIA, M.Z.; VEKUA, L.V.

Methodology for use in studying paleomagnetic changes.
Soob.AN Gruz.SSR 23 no.3:277-279 S '59.
(MIRA 13:3)

1. Tbilisskiy gosudarstvennyy universitet im.Stalina. Predstavleno akademikom V.D.Kupradze.
(Magnetism, Terrestrial)

NODIA, M.Z., red.; KEBULADZE, V.V., red.

[Yearbook of geophysical observations, 1957] Ezhegodnik geofizicheskikh nabliudenii, 1957. Tbilis, 1960. 153 p. (MIRA 14:10)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Institut geofiziki.
(Georgia—Geophysics—Observations)

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S/169/62/000/005/084/093
D228/D307

AUTHORS: Nodia, M. and Vekua, L.

TITLE: Results of investigating the secular variation at points near the Dushetskaya magnitnaya observatoriya (Dusheti Magnetic Observatory)

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 28, abstract 5G201 (Tr. Tbilissk. un-ta, 86, 1960, 57-62)

TEXT: The results of investigations of local anomalies of the secular variation, carried out in 1952-1955 and 1958, are stated. The values of ΔZ were determined by a vertical magnetic balance on 9 traverses, on which the points of observation were located every 2 - 3 km. It is concluded that each point has its individual secular variation of an oscillatory character, as a result of which the secular variation for nearby points may appear to be approximately identical over a somewhat long interval of time. [Abstracter's note: Complete translation.]

Card 1/1

NODIA, M.Z., red.; KEBULADZE, V.V., red.;

[Annual of geophysical observations, 1958]Ezhegodnik geofizicheskikh nabliudenii, 1958. Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR, 1961. 151 p. (MIRA 15:9)

1. Akademiya nauk Gruzinskoy SSR. Tiflis. Institut geofiziki.
(Geophysics--Observations)

NODIA, M. Z.; BERISHVILI, G. P.; KATSIASHVILI, N. A.

Some results of studying the pulsations of a geomagnetic field. Trudy Inst. geofiz. AN Gruz. SSR 20:19-25 '62.
(MIRA 16:1)

(Magnetism, Terrestrial)

ACC NR: AR6032142 SOURCE CODE: UR/0169/66/000/006/A037/A037

AUTHOR: Nodia, M. Z.; Berishvili, G. P.; Katsiashvili, N. A.

TITLE: Perturbed variations of the geomagnetic field according to magnetograms of observatories at Tbilisi-Korsani-Dushati from 1900 to 1956

SOURCE: Ref. zh. Geofizika, Abs. 6A236

REF SOURCE: Sb. Nekotoryye vopr. issled. elektromagnitn. polya Zemli. No. 1(23). Tbilisi, Metsniyereba, 1965, 5-13

TOPIC TAGS: geomagnetic disturbance, solar cycle, geomagnetic field, magnetogram

ABSTRACT: A catalog of magnetic disturbances compiled by the Tbilisi Observatory is described. The Tbilisi Observatory was located from 1900 to 1904 at Tbilisi, from 1908 to 1934 at Karsani, and from 1936 to 1956 at Dushati. This catalog contains data on 2587 storms, of which 640 are intense or very intense and 804 are moderate. The rest of the storms were small bay-type disturbances, sudden pulses, and short-period oscillations. The results of statistical investigations of storms, small disturbances, their distribution by solar cycles and seasons, and their diurnal variations are given.

SUB CODE: 08/ SUBM DATE: none

Card 1/1 UDC: 525.241

L 05249-67 EWT(1)/FCC GW

ACC NR: AP6018934 (N) SOURCE CODE: UR/0203/66/006/003/0613/0614

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30
B

AUTHOR: Nodia, M. Z.; Vekua, L. V.; Chelidze, Z. A.; Pavlenishvili, Ye. Sh.

ORG: Tbilisi State University (Tbilisskiy gosudarstvennyy universitet)

TITLE: A method for studying the secular variations of the Earth's magnetic field before our era

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 613-614

TOPIC TAGS: geomagnetic field, earth magnetic field, secular variation, paleontology

ABSTRACT: In order to obtain data on the secular variations of the Earth's magnetic field before our era, the authors collected more than 300 samples of 50 objects, for six of which the directions of the astronomic meridian were determined. Since these objects were only roughly dated, they could not be subjected to conventional research techniques and a new method for studying the secular variations of accumulation on the basis of these objects had to be devised. Recent theoretical work indicates that the absolute intensity value of the earth's magnetic field undergoes variations, the periodicity of which has yet to be established. On the basis of paleomagnetic data it may be assumed that this period is not less than 5,000 years, while the period of secular accumulation variations is in the order of 1,000 years. It one uses as a point of

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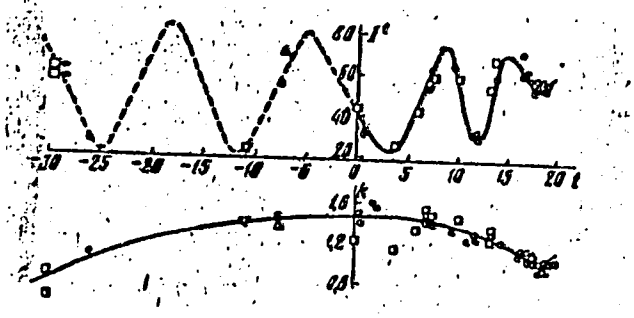

Fig. 1

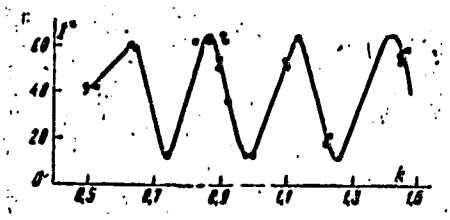

Fig. 2

departure the curve k = f(t) before our era (Fig. 1) and if a curve I = f(t) is plotted in conformity with measured values, such a curve will appear as shown in Fig. 2. It is clear from an analysis of this curve that the character of the cumulative change was sinusoidal even before our era for the territory of the Georgian SSR, while the double amplitude lies in a range of 10—60°. If these results are compared with S. P. Burlatskaya's curve (Sb. "Magnetizm gornykh porod i paleomagnetizm". Izd-vo SO AN SSSR, 1963, 245), all the points will be found to lie on Burlatskaya's hypothetical curve (Fig. 3). The points for samples ascribed to the earlies eras, for which k = 0.5, agree well with the logical extension of the k = f(t) curve, by which they can be tentatively dated as belonging to the 35th century B. C. The

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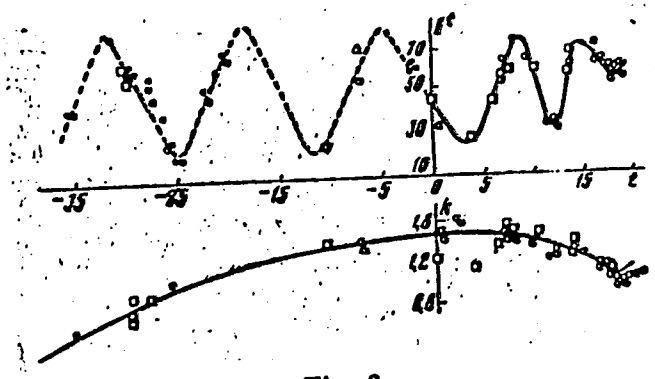

Fig. 3

cumulative value of these items, equal to 39—40°, falls quite satisfactorily on the descending branch of the sine curve I = f(t) (Fig. 3). Thus, complete agreement is observed between the authors' results and those of Burlatskaya. In conclusion, the authors wish to express their gratitude to G. N. Petrova and S. P. Burlatskaya for their help. Orig. art. has: 3 figures.

SUB CODE: 08/ SUBM DATE: 08Jul65/ ORIG REF: 005

Card 3/3 gd

NODIA, N. M.

Effect of carbon on strength of the bond in the lattice of martensite. G. V. Kurdyumov, V. K. Kaitskaya, and N. M. Nodia. *Problemy Met., Moscow: Izdatel. Akad. Nauk S.S.S.R., Sbornik* 1953, 117–20; *Referat. Zhur., Fiz.* 1955, No. 4777.—A method of measuring the relative intensities of reflection at 2 temps. was used. This made it possible to appraise the alteration in the lattice quantitatively and to establish that the presence of dissolved atoms weakens interat. bonds. Steel with a C content of 0.08 to 1.0% was studied. In such tempered steel, the characteristic temp. (θ) corresponds to 430° and practically does not differ from that for tempered α-Fe. With an increase in the C content, a decrease in θ is observed. Marjorie Kelner

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NODIA, M.M.

KURDYUMOV, G.V., akademik; KRITSKAYA, V.K., kand.fiz.-mat.nauk; NODIA, M.M., kand.fiz.-mat.nauk.

Effect of carbon on binding energy and static distortion in crystals of martensite. Probl. metalloved. i fiz. met. no.4:455-460 '55. (MIRA 11:4)
(Crystal lattices) (Martensite) (Carbon)

NODIA, N.M.

KRITSKAYA, V.K.; KURDYUMOV, G.V., NODIA, N.M.

Binding energies and distortions in martensite crystals. Zhur.tekh. fiz. 25 no.2: F '55. (MLRA 8:3)
(Martensite)

NODIA, N.M.

FD-3032

USSR/Physics - Distortion

Card 1/2 Pub. 153 - 1/23

Author : Kritskaya, V. K.; Kurdyumov, G. V.; Nodia, N. M.

Title : Binding forces and distortions in martensite crystals

Periodical : Zhur. tekh. fiz., 25, February 1955, 177-181

Abstract : The essence of tempering of steel consists in the formation of supersaturated solid solution of carbon in the alpha phase (martensite) as a result of diffusionless conversion of austenite, the considerable change in the steel's properties as a result of tempering being due mainly to those changes in the state of the alpha-phase lattice which cause the presence in it of carbon atoms distributed among the iron atoms; therefore for an understanding of the nature of the properties of martensite and their variations in the annealing process it is important to know the characteristics of the structure of its lattice, hence binding forces and distortions. The authors conclude that the great resistence of martensite crystals to plastic deformation cannot be due to variation in the binding forces in the lattice, since it is not only not higher than in alpha-iron crystals but even significantly lower; and that

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FD-3032

the cause for the high elastic limit of deformation in annealed steel is the greater static distortion of the martensite lattice caused by the presence of carbon atoms dissolved in it. Nine references.

Institution : --

Submitted : July 19, 1954

SOV/126-6-1-28/33

AUTHORS: Kritskaya, V. K., Nodia, N. M. and Osip'yan, Yu. A.

TITLE: On the Bonding Forces in Martensite Crystals (K voprosu o silakh svyazi v kristallakh martensita)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 1, pp 177-181 (USSR)

ABSTRACT: It was shown in Refs.1-4 that the introduction of carbon into α-iron leads to a change in the bonding forces. In the present paper the bonding forces in the martensite crystals are investigated by measuring Young's modulus under different conditions. Young's modulus is determined by measuring the resonance frequency of elastic longitudinal vibrations of specimens in the form of rods. The modulus was calculated from the following formula

$$E = \frac{4F^2 \ell^2 \rho}{981 \cdot 10^{+5}} \ (kg/mm^2)$$

(F = natural frequency of longitudinal vibrations, ℓ = length of the rod and ρ = density). The vibrations were produced by an LIG-40 sonic generator. Experiments have shown that changes in Young's modulus of martensite

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On the Bonding Forces in Martensite Crystals SOV/126-6-1-28/33

as the carbon content increases are in the same directi as the changes in the characteristic temperature. In th case of 0.1% carbon content Young's modulus does not change compared with the modulus for pure iron. At higher temperatures it decreases. The results are summarised in figures and a table.
There are 5 figures, 1 table and 5 references, all of which are Soviet.

ASSOCIATION: Institut metallovedeniya i fiziki metallov TsNIIChM (Institute of Metallography and Physics of Metals TsNIIChM)

SUBMITTED: October 29, 1956.

Card 2/2 1. Martensite crystals--Bonding 2. Martensite crystals--Vibration 3. Carbon--Metallurgical effects 4 Mathematics--Applications

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(MIRA 16:12)

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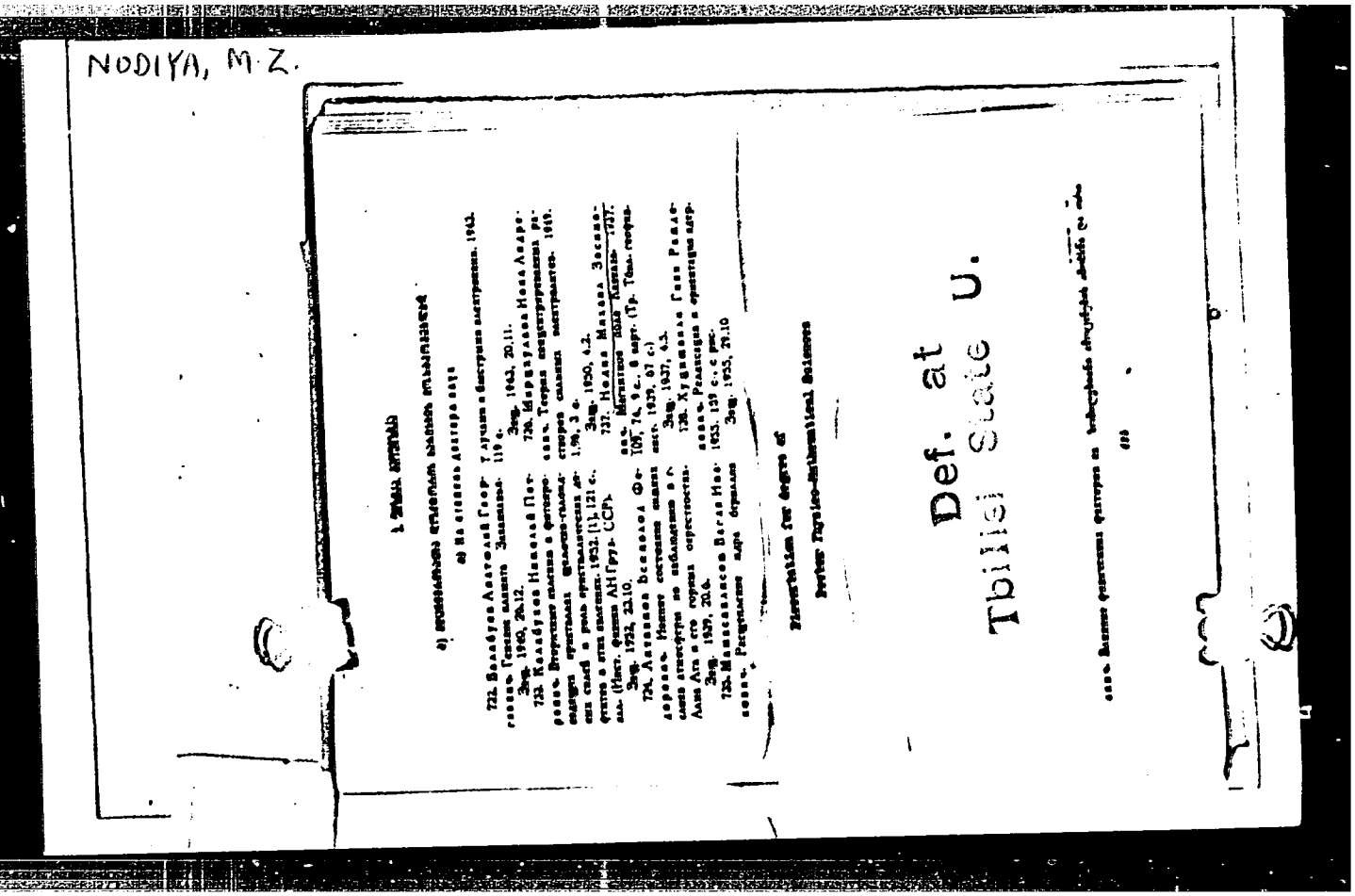

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Def. at
Tbilisi State U.

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(Bul))
(EMBOLISM, surgery.
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One table, one photograph, seven Soviet and seven Western references of recent date.

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