L 26056-66 EWT(1)/EWA(h)

ACC NR: AP5022791 SOURCE CODE: UR/0141/65/008/004/0679/0687

AUTHOR: Marchenko, Yu. I.; Rubanik, V. P.

ORG: Chernovtsy State University (Chernovitskiy gosundarstvennyy universitet)

TITLE: On the mutual synchronization of molecular generators

SOURCE: IVUZ. Radiofizika, v. 8, no. 4, 1965, 679-687

TOPIC TAGS: molecular generator, oscillation

ABSTRACT: Although molecular generators possess a sufficiently high frequency stability and a low noise level, sometimes an even greater stability and noise-proof feature is needed which is achieved by mutual synchronization of several generators with nearly self resonant frequencies. The mutual synchronization of molecular generators has been investigated in the case of strong couples without delay. The effect of a small delay of coupling forces has also been studied on the mutual synchronization processes, both in the case of strong and weak couples. An expansion of the basic range of synchronization occurs and new synchronization cycles appear which did not exist in the absence of delay. During weak couplings a delay of 1/8 the oscillation period impairs mutual synchronization processes:

Card 1/2 UDC: 621.378.3

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ACC NR: AP5022791

the synchronization range decreases and in some cases leads to the appearance instead of one or two stable synchronization cycles and to the possible transition of generators from one oscillation cycle to another. Orig. art.has: 3 fig. and 19 equations.

SUB CODE: 20/ SUBM DATE: 09Nov62/ ORIG REF: 009/ OTHER REF: 000

Card 2/2

21(8)

[illegible]

Tr[illegible]
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[illegible], Izdvo AN SSSR, [illegible] 2.000 copies printed.

Sponsoring agencies: [illegible], Glavnoye upravleniye po ispol'zovaniyu atomnoy energii, and Akademiya nauk SSSR.

Editorial Board of Set: V.I. Dikushin, Academician (Resp. Ed.), N.N. Shumilovskiy (Deputy Resp. Ed.), Yu. S. Zaslavskiy (Deputy Resp. Ed.), L.K. Tatochenko, E.I. Verkhovskiy, S.T. Nazarov, L.I. Petrenko and N.G. Zelevinskaya (Secretary).

Ed. of Publishing House: P.N. Belyanin; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine- and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Rudanovskiy A. A.

89-1-17/29

AUTHORS: Segalin, V. G., Rudanovskiy, A. A.,

TITLE: The Stabilization of the Motion of Working - and Extracting Machines by Radioactive Methods (Stabilizatsiya dvizheniya prokhodcheskikh i dobychnykh mashin s pomoshch'yu radioaktivnykh metodov)

PERIODICAL: Atomnaya Energiya, 1956, Vol. 4, Nr 1, pp. 88-90 (USSR)

ABSTRACT: In the interest of the automation of the coal industry it is also of importance to automize the motions of extracting-, working-, and transporting machines. Three possibilities of automatic control have been considered, in the case of which the machines remain in operation only whenever there is coal. As a control transmitter a γ-source, and as a receiver a counting tube is used.

I. Stabilization by a free standing linear contact "rock-coal".

II. Stabilization by a free-standing band-shaped contact "rock-coal".

III. Stabilization by a covered contact "rock-coal".

For all varieties mentioned the following was attained with respect to the use of devices of automation: For case I: If the counting tube operates within the proportional domain, the coal-band is maintained with an accuracy of $\pm$ 0,5 cm. For case II:

Card 1/2

SEGALIN, V.G., kand.tekhn.nauk; RUDANOVSKIY, A.A., inzh.; VASILEVSKIY, V.L., inzh.

Automatic control of the removal of heavy fractions from jigging machines by means of radiometric detectors. Izv.vys. ucheb. zav.; gor. zhur. no.6:105-115 '60. (MIRA 14:5)

1. Institut gornogo dela AN SSSR. Rekomendovana kafedroy obshchey elektrotekhniki.

(Ore dressing--Equipment and supplies)
(Radioactivity--Measurement)

SEGALIN, V.G.; RUDANOVSKIY, A.A.

Radiation monitor for the automatic control of mining machinery.
Ugol' 35 no.10:36-39 O'60. (MIRA 13:10)
(Coal mining machinery) (Automatic control)
(Gamma rays--Industrial applications)

OSMACHKIN, B.P.; RUDANOVSKIY, A.A., red.

[Work experience of the Lugansk Isotope Laboratory in the introduction of radioisotope devices in the industrial enterprises of Lugansk Province] Opyt raboty Luganskoi izotopnoi laboratorii po vnedreniiu radioizotopnykh priborov na promyshlennykh predpriiatiiakh oblasti. Moskva, Atomizdat, 1964. 21 p. (MIRA 18:1)

RUDANOVSKIY, A. A.

Cand Tech Sci - (diss) "Application of radioactive radiations for automatic driving of stope-cutting machines as to hypsometry of strata." Moscow, 1961. 20 pp; (Sverdlovsk Mining Inst imeni V. V. Vakhrushev); 200 copies; price not given; (KL, 10-61 sup, 218)

RUDANOVSKIY, A.A., starshiy nauchnyy sotrudnik; ZHIRYAKOV, V.N.

Automatic driving of the cutter-loader along the coal-rock contact. Ugol' Ukr. 5 no.4:34-35 Ap '61. (MIRA 14:4)

1. Institut gornogo dela AN SSSR (for Rudanovskiy). 2. Glavnyy inzh.shakhty No.54 tresta Bokovoantratsit (for Zhiryakov).
(Coal mining machinery) (Automatic control)

RUDANOVSKIY, Aleksandr Aleksandrovich; PODOSHVINA, V.A., red.

[Radioactive isotopes in mining and mineral dressing] Radioaktivnye izotopy v gornom dele i obogashchenii poleznykh iskopaemykh. Moskva, Atomizdat, 1965. 179 p. (MIRA 18:12)

SNAGORSKIY, Ye. S., kand. tekhn. nauk; SEGALIN, V. G., kand. tekhn. nauk; RUDANOVSKIY, A. A., kand. tekhn. nauk

Study of the possibility of using the radiometric method to control the distance before contact between coal and rock for purposes of automation of stoping machinery. Mekh. i avtom. v gornoi prom. no.2:291-304 '62. (MIRA 16:1)

(Radioisotopes—Industrial applications)
(Coal mining machinery) (Automatic control)

RUDANOVSKIY, S.N.

Machine and a rapid method for determining the wear resistance of free-flowing materials. Zav. Lab. 30 no.6:756-757 '64 (MIRA 17:8)

RUDANOVSKIY, S.N.

Selection of representative samples from free-flowing products. Zav.lab. 29 no.2:245 '63. (MIRA 16:5)
(Sampling)

RUDANOVSKIY, S.N.

Laboratory mechanical dividers for reducing and averaging samples of free-flowing products. Zav.lab. 29 no.5:629 '63. (MIRA 16:5)
(Sampling)

RUDANOVSKIY, S.N., inzh.

Mechanization of the sampling of loos materials. Mekh.i avtom. proizv. 17 no.1:33-35 Ja '63. (MIRA 16:2)
(Granular materials--Testing)

RUDAREANU, M.

Economic development of Albania during the two decades since the liberation. Probleme econ 17 no.11:121-124 N '64.

Rudas, B.

EXCERPTA MEDICA Sec.2 Vol.10/2 Physiology,etc Feb57

663. RUDAS B. Nat. Inst. of Food and Nutr. Sci., Budapest. *Changes in the nucleoprotein content of granulation tissue on the effect of vitamin C in various modes of administration ACTA PHYSIOL. ACAD. SCIENT. HUNG. (Budapest) 1955, 8/3-4 (253-258) Tables 4

In a former paper it was stated that the RNA and DNA contents of granulation tissue were decreased in scorbutic guinea-pigs. This decrease could be prevented by oral or local administration of vit. C. If administered after the wound had been inflicted, even large doses of vit. C failed to restore the RNA value to normal in the wound tissue of the guinea-pigs that had been kept on a vit. C-deficient diet for 5 days prior to wounding. Rudas - Budapest

RUDAS, B.

Med

6209. **Effect of vitamin C on the nucleoprotein content of granulation tissue.** B. Rudas and G. Nagy *Acta physiol. Acad. Sci. hung.*, 1955, 8, 253—258 (Nat. Inst. of Food and Nutr. Sci., Budapest, Hungary).—The RNA and DNA content of the granulation tissue of healing wounds is smaller in guinea pigs on a scorbutogenetic diet than in those on a normal diet. In guinea pigs on a scorbutogenetic diet supplemented with 10 mg. ascorbic acid or by as much kohlrabi as contained 10 mg. ascorbic acid the RNA and DNA contents of the granulation tissues was as high as in the controls. The wound was inflicted on the 5th day of scorbutic diet. If from that time on 50 mg./day ascorbic acid was fed it did not prevent diminution of RNA and DNA. Local painting of ascorbic acid on the wound is only capable of inhibiting diminution in the RNA and DNA content if the animal is also fed a small amount of ascorbic acid. (Hungarian)

A. B. L. BEZNÁK.

RUDAS, Gyorgy, Dr. (Temesvar).

Atypical intoxication symptoms in phenergan poisoning. Orv. hetil. 99 no.32:1116 10 Aug 58.
(PROMETHAZINE, pois.
atypical sympt., case report (Hun))

ROMANIA

RUDAS, Gh., MD.; BRÜCKNER, Al., MD.

Haematology Section of Polyclinic No 1 in Timisoara (Sectia de hematologie a Policlinicii nr. 1 din Timisoara); - (for all)

Bucharest, Viata Medicala, No 15, 1 Aug 63, pp 1047-1052

"A case of Transformation of Chronic Myeloid Leukosis into Basophil Leukaemia."

RUDAS, Imrene, dr.; SCHULLER, Aranka, dr.

Changes in serum proteins in stilbamidine therapy of plastocytoma. Orv. hetil. 98 no.9:207-209 3 Mar 57.

1. A Koranyi Sandor es Frigyes Kozkorhaz (igazgato: Petho, Imre, dr.) Kozponti Laboratoriumanak (foorvos: Orossy, Magda, dr.) es Belosztalyanak (foorvos: Szemzo, Gyorgy, dr.) kozlemenye.

(MYELOMA, PLASMA CELL, ther.
stilbamidine, eff. on blood proteins (Hun))
(STILBENES, ther. use
stilbamidine in plasma cell myeloma, eff. on blood proteins (Hun))

KEMENY, T.;TOTH, E.;RUDAS, I.;SOS, J.

Effect of methionine deficiency of the bone. Acta physiol. hung. 4 Suppl:53-54 1953. (CIML 25:1)

1. Of the Institute of Pathophysiology of Budapest University.

RUDAS, Imre, dr.; SURANYI, Mihaly, dr.

Effect of penicillin on immunologic processes in rabbits inoculated with scarlet fever toxin. Orv. hetil. 96 no.20: 546-547 15 May 55.

1. XIX. ker Tanacs Belgyogyaszati korhazanak (igazgato: Iras, Jeno dr., foorvos: Rudas, Imre dr.) kozlemenye.

(SCARLET FEVER, immunology,
vacc., eff. of penicillin on immunol. responses in rabbits.)

(VACCINES AND VACCINATION,
scarlet fever, eff. of penicillin in immunol. responses in rabbits.)

(PENICILLIN, effects,
on scarlet fever vacc. immunol. responses in rabbits.)

RUDAS, Imre, dr.; KORBULY, Istvan, dr.

Cured case of lobar pneumonia connected with monoliasis in adult. Orv. hetil. 97 no.28:780-782 8 July 56.

1. XIX. ker., Tanacs Belgyogyaszati Korhazanak (igaz.: Iras, Jeno dr.) kozl.

(PNEUMONIA, LOBAR, compl.
monoliasis in adult, bacteriol. & antibiotic ther. (Hun))
(MONOLIASIS, etiol. & pathogen.
pneumonia, lobar, in adult, bacteriol. & antibiotic ther. (Hun))
(ANTIBIOTICS, ther. use
monoliasis in lobar pneumonia. (Hun))

RUDAS, Imrene, dr. (Mrs.)

Problems in the investigation of chemicals used in the food industry. Nepegeszsegugy 36 no.10:340-343 Oct 55.

1. Kozlemeny az Orszagos Eleimezes-es Taplalkozastudomanyi Intezet (igazgato: Tarjan, Robert, az orvostudomanyok kandidatusa) biokemiai osztalyarol.

(FOOD
additives, agricultural chemicals & colors, inj. eff., hyg. contol in Hungary. (Hun))

RUDAS, Imrene

Effect of vitamin C on the metabolism of nucleoproteins in connective tissue. Kiserletes orvostud. 6 no.3:245-248 May 54.

1. Elemezestudomanyi Intezet.
(NUCLEOPROTEINS, metabolism,
connective tissue, eff. of vitamin C)
(VITAMIN C, effects,
on connective tissue nucleoproteins metab.)
(CONNECTIVE TISSUE, metabolism,
nucleoproteins, eff. of vitamin C)

WUNSCH, H.L.; RUDAS, Janos [translator]

Design and application of air lubricating bearings.
Gep 15 no.9:374 S '63.

RUDAS, Janos

Experiences with the application of work psychology in the clothing industry. Magy textil 13 no.1:34-35 Ja '61.

RUDAS, Janos

"Theses of lectures at the conference on the questions of work psychology." Reviewed by Janos Rudas. Magy pszichol szemle 17 no.2:229-231 '60.

RUDAS, Janos

"Questions of work psychology." Reviewed by Janos Rudas. Magy pszichol szemle 17 no.2:232-234 '60.

RUDAS, Janos

"General chromatics and colorimetry" by Rudolf Hruska. Reviewed by Janos Rudas. Magy pszichol szemle 17 no.3:354 '60.

RUDAS, Janos

Noise in the working room of the clothing industry. Magy textil 13 no.6:236-238 Je '61.

RUDAS, Janos, dr.

High speed clamps. Gepgyartastechn 2 no.4:155-159 Ap '62.

1. Magyar Szabvanyugyi Hivatal.

RUDAS, Janos

"Psychology of the abilities of the creative art activity" by V.I. Kireenko. Reviewed by Janos Rudas. Magy pszichol szemle 17 no.4:470-472 '60.

DENES, Miklos; RUDAS, Janos, dr.

Building box system in instrumentation. Ujit lap 12 no.12:10-11 25 Je '60.

1. Szerszamgepfejleszto Intezet.

RUDAS, Janos

"Psychology of teaching writing" by E.V. Guryanov. Reviewed by Janos Rudas. Magy pszichol szemle 17 no.4:456-458 '60.

RUDAS, Janos

"Voprosy psikhologii", no.1,2,1956, a periodical review by Janos Rudas. Magy pszichol szemle 17 no.4:475-479 '60.

RUDAS, Janos

A session on work psychology at the "Majus 1" clothing factory. Magy pszichol szemle 18 no.1:76-79 '61.

1. "Majus 1. Ruhagyar" pszichologusa.

NAGY, Laszlo; RUDAS, Janos

"Voprosy psikhologii," nos. 3-5, 1956; a periodical review by Laszlo Nagy and Janos Rudas. Magy pszichol szemle 18 no.1:111-120 '61.

RUDAS, Janos, pszichologus

Instrument scales and man. Technika 6 no.1:2 Ja '62.

RUDAS, Janos

Engineering psychology. Magy pszichol szemle 19 no.1:85-88 '62.

DEBRECZENI, Laura, dr.; RUDAS, Lenke, dr.; BARDOS, Vera, dr.

The use of hydrocortisone in dental prophylaxis. Fogorv. szemle 58 no.6:170-172 Ja '65

1. A Pecsi Orvostudomanyi Egyetem Stomatologiai Klinikajarol (Igazgato: Schranz, Denes, dr., egyetemi tanar).

BOZZAY, [illegible], dr. W.-né; BARDOS, Vera, dr., dr. F.-né; EMBER, Erika, dr. dr. M.-né; HUDAS, Lenke, dr., dr. SZ.-né.

Problems of supplying the members of collective farms with dental prostheses in the district of Sellye. Fogorv. szemle 58 no.5:129-135 My '65

1. A Pecsi Orvostudomanyi Egyetem Stomatologiai Klinikajarol (Igazgato: Schranz, Denes, dr., egyetemi tanar).

RUDAS, Lenke, dr.

Report on experiences with dental care in England. Fogorv. szemle 58 no.3:84-88 Mr '65

1. A Pecsi Orvostudomanyi Egyetem Stomatologiai Klinikaja (igazgato: Schranz, Denes, dr., egyetemi tanar).

RUDAS, L.

How we should check the use of subsidiary material in the Hungarian Cotton Weaving Factory, p. 260, MAGYAR TEXTILTECHNIKA (Textilipari Muszaki es Tudomanyose Egyesulte) Budapest, No. 7, July 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, No.11, November 1956.

R-175 L

SZEKERES, L.; FRANKL, J.; RUDAS, L.

Combined effect of digitalis and penicillin. Magy.belorv.arch. 3 no.1:57-60 '50. (CLML 19:3)

1. Pharmaceutical Institute (Director -- Dr. Gyula Mehes) and Skin Clinic, Pecs University.

RUDAS, LENKE,
LASZLO SZEKERES, Magyar Belorvosi Arch. 3, 1950, 57-60

RUDAŚ, M.

Zbiór zadań z matematyki (Collection of exercises in mathematics), by M. Rudaś. Reported in New Books, (Nowe Ksizaki), No. 6, March 15, 1956.

RUDAS, S.A., inzh.; KHRAMKIN, M.F., inzh.

Experimental investigation of the cavitation of propellers.
Sudostroenie 30 no.5:58-59 My '64. (MIRA 17:6)

RUDASHEVSKAYA, M. M.: Master Biol Sci (diss) -- "Investigation of the effect of natrog (sodium trihydroxyglutarate) on the blood and its components in blood preservation". Moscow, 1959. 19 pp (Second Moscow State Med Inst im N. I. Pirogov), 250 copies (KL, No 13, 1959, 103)

VASIL'YEV, P.S., prof.; RUDASHEVSKAYA, M.M.

Influence of carbohydrates on the erythrocytes of the blood stabilized with natrog (sodium 2,3,4,-trioxglutaric acid). Probl. gemat. i perel. krovi 5 no.3:39-43 Mr '60. (MIRA 14:5)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.Bogdasarov).
(BLOOD--COLLECTION AND PRESERVATION) (GLUTARIC ACID)
(GLUCOSE) (SUCROSE) (ERYTHROCYTES)

RUDASHEVSKAYA, M.M.; POLUSHINA, T.V.

Study of the structure of crude dextran and polyglycine. Probl. gemat. i perel. krovi 5 no. 8:42-43 Ag '60. (MIRA 14:1)
(DEXTRAN)

RUDASHEVSKAYA, M.M.

Effect of the sodium salt of trihydroxyglutaric acid (natrog) on the plasma proteins in preserved blood. Probl. gemat. i perel. krovi 5 no. 10:47-50 '60. (MIRA 14:1)
(BLOOD—COLLECTION AND PRESERVATION) (GLUTARIC ACID)
(BLOOD PROTEINS)

ROZENBERG, G.Ya; RUDASHEVSKAYA, M.M. ; UL'YANOVA, N.D. (Moskva)

Changes in the specificity of heterogenic proteins under the influence of pressure and heating. Pat. fiziol. i eksp.terap. 7 no.2:69-70 Mr-Ap'63. (MIRA 16:10)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - dotsent A. Ye.Kiselev)
(BLOOD PROTEINS) (HEAT--PHYSIOLOGICAL EFFECT)
(ATMOSPHERIC PRESSURE--PHYSIOLOGICAL EFFECT)

NAMYATYSHEVA, A.M.; FEDOROV, N.A., prof.; KOROSTYLEVA, V.A.; RUDASHEVSKAYA, M.M.

Effect of antithrombocytic cytotoxic serum on hematopoiesis in dogs. Probl. gemat. i perel. krovi 10 no.2:19-25 F '64. (MIRA 19:1)

1. Patofiziologicheskaya laboratoriya (zav. - deystvitel'nyy chlen AMN prof. N.A. Fedorov) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya SSSR, Moskva. 2. Deystvitel'nyy chlen AMN SSSR (for Namyatysheva).

NESMEYANOVA, O.A.; RUDASHEVSKAYA, T.Yu.; LUKINA, M.Yu.

Reactions of 1,3,3-trimethylcyclopropene with ethyl magnesium bromide and cuprous oxide salts. Izv. AN SSSR. Ser. khim. no.8:1510 '65. (MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

L 59571-65 EWT(1)/EPA(s)-2/EWT(m) Pt-7 IJP(c) JD/JW/GG

ACCESSION NR: AT5009433 CZ/0000/64/000/000/0017/0029

38
37B+1

AUTHOR: Borovik-Romanov, A. S.; Kalinkina, I. N.; Kreines, N. M.; Prozorova, L. A.; Rudashevski, E. G.

21

TITLE: Investigation of spin-wave spectrum in antiferromagnetic carbonates

SOURCE: Conference on Low Temperature Physics and Techniques. 3d, Prague, 1963. Physics and techniques of low temperatures; proceedings of the conference. Prague, Publ. House of the Czechosl. Academy of Sciences, 1964, 17-29

TOPIC TAGS: carbonate, spin wave spectrum, temperature dependence, spontaneous magnetization, antiferromagnetic resonance, specific heat

ABSTRACT: The authors survey the principal results obtained at the Institut fizicheskikh problem (Institute of Physics Problems) AN SSSR on the spin-wave spectrum in antiferromagnetic carbonates of transition elements. Three research methods have been used: study of antiferromagnetic resonance, study of the temperature dependence of the spontaneous magnetization, and study of the temperature dependence of the heat capacity. All three methods were used to determine the dispersion law as well as to verify it quantitatively. References to the original reports of these investigations are given. The results have confirmed experimentally that the antiferromagnetic spin-wave spectrum has linear dispersion. Numerical values are given

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ACCESSION NR: AT5009433

of the magnitude of the gap in the spectrum of antiferromagnets possessing weak ferromagnetism, and also of all the constants characterizing the spin-wave energy spectrum of $MnCO_3$ and $CoCO_3$. Orig. art. has: 11 figures, 12 formulas, and 2 tables.

ASSOCIATION: Institute for Physical Problems, Acad. Sci. SSSR, Moscow

SUBMITTED: 0000064 ENCL: 00 SUB CODE: EM, TD

NR REF SOV: 016 OTHER: 003

Card 2/2

L 59569-65 EWT(1)/EPA(s)-2/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) Pt-7 IJP(c)

ACCESSION NR: AT5009441 JD/GG CZ/0000/64/000/000/0084/0086

45
38
B+1

AUTHOR: Rudashevski, E. G.; Shalnikova, T. A.

TITLE: Antiferromagnetic resonance in hematite

SOURCE: Conference on Low Temperature Physics and Techniques. 3d, Prague, 1963. Physics and techniques of low temperatures; proceedings of the conference. Prague, Publ. House of the Czechosl. Academy of Sciences, 1964, 84-86

TOPIC TAGS: antiferromagnetic resonance, hematite, single crystal, hexagonal anisotropy, field dependence, spin rotation

ABSTRACT: The authors studied antiferromagnetic resonance in natural hematite crystals from deposits on Elba Island and in Shabry (SSSR), and in synthetic single crystals produced by M. Vychr by the Remeika method in the Institute of Solid State Physics of the Czechoslovak Academy of Sciences. The antiferromagnetic resonance was studied in detail in the frequency range 12--37 Gc and in the temperature interval 230--290K. The dependence of the resonance frequency on the external magnetic field, applied in the basal plane, is described at 290K by a formula $(\nu/\gamma)^2 = H(H + H_D) + H_2$ where H_D is the Dzyaloshinskiy field and H_2 is the term expressing the anisotropy in the basal plane. The measurements were made with a magnetic spectrometer analogous to that used by A. S. Borovik-Romanov et al. (ZhETF v. 45

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ACCESSION NR: AT5009441

7

(1963) 64). When the temperature was reduced from 300 to 243K with the static magnetic field parallel to the basal plane and the high-frequency field perpendicular to it, a great decrease in the absorption was observed, without a change in the width or shape of the line. The antiferromagnetic resonance signal disappeared at 240K. A hexagonal anisotropy of the position of the antiferromagnetic resonance line was discovered at low temperatures and found to increase with decreasing temperature. The appearance of anisotropy is attributed to the rotation of the spins out of the basal plane. "The authors thank P. L. Kapitsa for continuous interest in the work and A. S. Borovik-Romanov, J. Kaczer, and Z. Frait for valuable advice and discussions." Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Institute for Physical Problems, Acad. Sci. SSSR, Moscow [Rudashevski]; Institute of Physics, Szechosl. Acad. Sci., Prague [Shalnikova]

SUBMITTED: 00000064 ENCL: 00 SUB CODE: SS, EM

NR REF SOV: 005 OTHER: 004

Iron Oxide

Card 2/2

LAYKHTER, E.G.; CHUMAK, A.V., inzh., red.; BEZRUCHKIN, I.P., kand.tekhn. nauk, red.; ZANIN, A.V., kand.tekhn.nauk, red.; ZVOLINSKIY, N.P., inzh., red.; IVANOV, I.S., inzh., red.; KLETSKIN, M.I., inzh., red.; PETROV, G.D., kand.tekhn.nauk, red.; PUSTYGIN, M.A., doktor tekhn. nauk, red.; RABINOVICH, I.P., kand.tekhn.nauk, red.; RUDASHEVSKIY, D.Sh., kand.tekhn.nauk, red.; SINEOKOV, G.N., doktor tekhn.nauk, red.; SYSOYEV, N.I., kand.tekhn.nauk, red.; FEDOROV, V.A., inzh., red.; CHAPKEVICH, A.A., kand.tekhn.nauk, red.; PONOMAREVA, A.A., tekhn.red.

[Bibliographic manual on tillage machinery and implements] Bibliograficheskii spravochnik po pochvoobrabatyvaiushchim mashinam i orudiiam. Moskva, Gosplanizdat. No.2. [Literature in the Russian language from 1730-1955] Literatura na russkom iazyke za 1730-1955 gg. Pod red. G.N.Sineokova. 1959. 263 p. (MIRA 13:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.
(Bibliography--Agricultural machinery)

RUDASHEVSKIY, E. G., BOROVIK-ROMANOV, A. S., KREYNES, N. M., PROZOROVA, L. A.,

"Antiferromagnetic Resonance in $MnCO_3$ and $CoCO_3$."

report presented at the Symposium on Ferroelectricity and Ferromagnetism, Leningrad, 30 May-5 June 1963.

RUDASHEVSKIY, G. Ye.

Induction tensimeters (for testing elastic tension in metals and materials). G. E. Rudashevskii. *Zavodskaya Lab.* 7, 900-5(1938).—A discussion, with math. treatment, of the construction and performance of various types of foreign tensimeters. Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

RUDASHEVSKIY, G. YE.

Rudashevskii, G. E. The Inductive Schemes of Bridge and Transformation and Their Application for Measuring Small Deformations. Trudy Seismolog. Instituta Akad. Nauk S.S.S.R., No. 84, 1938, pp. 1-32.

RUDASHEVSKIY, G. YE.

PA 27T2

USSR/Aeronautics
Motors, Aircraft
Meters, Torsion

Dec 1946

"Torsional Strain Meter," G. Ye. Rudashevskiy, 12 pp

"Iz Ak Nauk, Otd Tekh Nauk" No 11

Discussion on a device for measuring torsional strain of an airplane motor in flight.

ID

27T2

RUDASHEVSKIY, G.Ye.

24

Electrical Contacts of the Strainometer in Operation (In Russian.) G. E. Rudashevskii. *Izvestiya Akademii Nauk SSSR, Otdelenie Tekhnicheskikh Nauk* (Bulletin of the Academy of Sciences of the USSR, Section of Technical Sciences), Jan. 1948, p. 19-22.

Factors responsible for errors in the above were investigated. It was found that the main factors were defective contacts between the moving shaft and the brushes. A series of practical remedies is proposed.

Inst. Machine Studies, AS USSR

DEVELOPMENTAL LITERATURE CLASSIFICATION

HUDASHEVSKIY, G.Ye.

Temperature compensation in deformation measurements. Izm.tekh. no.1:49-50 Ja-F '56. (MLRA 9:5)
(Deformations (Mechanics)--Measurement)

RUDASHEVSKIY, G.Ye., (Moskva)

Measuring system designed for the multipoint recording of mechanical parameters. Izv. AN SSSR. Otd. tekh. nauk no.6: 162-166 Je '56. (MLRA 9:9)

(Machinery, Kinematics of) (Measuring instruments)

RUDASHEVSKIY, German Yevgen'yevich, kand.fiz.-mat.nauk; SKOROBOGATOV, Vladimir Ivanovich, inzh.; BRYANTSEVA, V.P., inzh., red.; SOROKIN, T.M., tekhn.red.

[Hydroelectric hypothesis of the nature of cavitation corrosion of metals] Gidroelektricheskaia gipoteza prirody razrusheniia metallov pri kavitatsii. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1957. 12 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 9, no.M-57-173/2). (MIRA 11:12)
(Cavitation)

SOV/124-58-4-4778

Translation from: Referativnyy zhurnal. Mekhanika, 1958, Nr 4, p 155 (USSR)

AUTHORS: Rudashevskiy, G. Ye., Nemm, V. A.

TITLE: Investigations of Pressures and Deformations in the Components of Variable-pitch-blade Turbine in Actual Service (Issledovaniya davleniy i deformatsiy v elementakh povorotnolopastnoy turbiny v ekspluatatsionnykh usloviyakh)

PERIODICAL: V sb.: Gidroturbostroyeniye, Vol 4, Moscow-Leningrad, Mashgiz, 1957, pp 127-137

ABSTRACT: Results of experimental investigations of the pressures on the blades and the walls of the housing as well as the deformations of the blades of the Tsimlyanskaya hydraulic-turbine installation are presented. Analysis of the experimental data reveals the following: 1) During the pre-start-up period the pressure on the blades and on the housing increases rapidly with an increase in the opening of the distributor a_o and attains a maximum value for $a_o = 30\%$. As soon as the turbine starts moving the pressure falls and remains constant with the establishment of normal rpm. With an increase in power the pressure in the housing increases gradually but then, between $a_o = 65\%$ and $a_o = 70\%$

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Investigations of Pressures and Deformations (cont.)

it falls off sharply and thereafter remains approximately constant. 2) Maximum stress (σ = 700 kg/cm^2) occurs in the root section of the blade in the pre-start-up period. With an increase in rpm the compression strains on the trailing edge of the blade are changed into tensile strains and under normal rpm the tensile stresses attain 370 kg/cm^2. 3) During the starting cycle blade vibrations attain resonance at 20-25 cps frequency, which approximates the value of the first non nodal form of vibration obtained by taking into consideration the entrained mass of water. Under these conditions the variable amplitude component of the deformation is 60% of the static value.

A. D. Kovalenko

1. Turbines--Stresses 2. Turbines--Pressure 3. Turbines blades--Deformation 4. Mathematics

Card 2/2

HUDASHEVSKIY, G.Ye., kand. fiz.-mat. nauk; NEMM, V.A., inzh.

Investigation of pressures and deformations obtaining in adjustable-blade turbines under operating conditions. [Trudy] LMZ no.4:127-137 '57. (MIRA 11:4)

(Hydraulic turbines) (Strains and stresses)

Rudashevskiy, G.Ye.

RUDASHEVSKIY, G.Ye.

Heating wire strain gauges by feed current. Trudy Inst. mash. Sem. po teor. mash. 17 no.66:33-38 '57. (MIRA 11:1)
(Strain guages)

RUDASHEVSKIY, G.Ye.

Designing a nd manufacturing thermocompensated strain gauges. Izm. tekh. no.3:39-41 My-Je '57. (MLRA 10:8)
(Strain gauges)

RUDASHEVSKIY, G. Ye., Doc Tech Sci — (diss) "Problems of multiple-projection measurements of deformations, pressures, and vibrations on large machines, and ~~the~~ study of these parameters on large-capacity hydro-turbines under operating conditions," ~~of exploitation.~~ Nos, 1959. 28 pp (Inst of Machine Science ~~Management~~ of the Acad of Sci USSR). 250 copies

List of author's works, pp 27-28 (19 titles) (KL,37-59, 108)

30

SOV/24-59-3-18/33

AUTHOR: Rudashevskiy, G. Ye. (Moscow)

TITLE: An Investigation of the Pressures, Stresses and Vibrations in Turbine Blades and Other Working Components of a Hydro-Electric Power Station

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 3, pp 130-134 (USSR)

ABSTRACT: An investigation was carried out by the Institute of Mechanical Engineering, Academy of Sciences, USSR, in conjunction with the Leningrad Metallurgical Plant. The investigated power station was the "13th Volga" station imeni V. I. Lenin, with a power of N = 126 MW for each turbine. The variations of the waterhead were H = 19-30 m. The number of revolutions of the turbine was n = 68.2 rpm. The turbine wheel diameter was D = 9300 mm. The preparations for the actual measurements were made in 3 stages: at the making of the turbine in the factory, during its installation, and just before the measurements were taken. These were performed at all the various states of the turbine, such as: starting, stopping, acceleration to 120 rpm, idle run, synchronising and switching into the electric network, etc. The oscillograms obtained showed the deformations, pressures and vibrations, number of revolutions, etc. The results are illustrated in Figs 1-6. Fig 1 shows

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the distribution of pressure p kg/cm^2 and the specific load on the blade ℓ mm for $N = 10, 30, 80$ mW (p_1 - pressure from above the blade, p_2 - pressure from below the blade, $p = p_1 - p_2$). Fig 2 shows pressure p at the point 19 of the blade in relation to the power N (i.e. point A in the middle cross-section of the blade as seen in Fig 3). Fig 3 represents the lines of equal specific load on the blade for $N = 30$, D_1, D_2, D_3, D_4 - vibration gauges. Fig 4 shows the lines of specific deformation ε at the points 10, 5 and 46 of the blade (see Fig 5) in relation to N. Fig 5 shows the lines of equal stresses σ_1 on the upper side of the blade for $N = 25$. Fig 6 illustrates the oscillograms showing (a) deformations at the points 46 and 5 (Fig 5), and (б) deformation of vibrations at a

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point D_3 (Fig 3). The investigations show that the strongest vibrations of the blade occurred when the load was N = 25-30 MW, i.e. about 25% of the maximum power of the turbine. There are 6 figures and 4 Soviet references.

SUBMITTED: December 29, 1958.

Card 3/3

KOVALEV, N.N.; PRIGOROVSKIY, N.I., doktor tekhn.nauk; RUDASHEVSKIY, G.Ye., kand.fiz.-mat.nauk; EDEL', Yu.U., kand.tekhn.nauk

Investigating pressures and stresses in rotor blades of a hydraulic turbine at the Narva Hydroelectric Power Station. Energomashinostroenie 5 no.1:29-32 Ja '59. (MIRA 12:2)

1. Chlen-korrespondent AN SSSR (for Kovalev).
(Narva Hydroelectric Power Station--Hydraulic turbines)

BAKMAN, M.Ye. (Moskva); PODMAR'KOV, A.N. (Moskva); RUDASHEVSKIY, G.Ye. (Moskva)

Germanium strain guages. Izv. AN SSSR. Otd. tekh. nauk. Mekh. i mashinostr. no. 1:189-190 Ja-F '61. (MIRA 14:2)
(Strain gauges) (Germanium)

ALIKHANOV, R. A., Institute for Physical Problems Imeni S. I. Vavilov, Academy of Sciences USSR, Moscow - "Neutronographic study of NiCO3" (Section J-2)

BELOV, N. V., Associate Director, Institute of Crystallography, Academy of Sciences USSR, Moscow - "Magnetic (ferromagnetic) space group symmetry" (C-6)

BELOV, N. V., NERONOVA, N. N., Both Institute of Crystallography, Academy of Sciences USSR, Moscow, DONNAY, J. D. H., Johns Hopkins University, Baltimore, Md., and DONNAY, G. H., Geophysical Laboratory, Carnegie Institution, Washington, D. C. - "Tables of magnetic space groups, II. Special positions" (C-6)

BOROVIK-ROMANOV, A. S., Institute for Physical Problems Imeni S. I. Vavilov, Academy of Sciences USSR - "Antiferromagnetic resonance in carbonated of transition elements" [sic] (M 16)

BOROVIK-ROMANOV, A. S., ALIKHANYAN, G. G., RUDASHEVSKIY, G. Ye. - "Piezomagnetic effect in antiferromagnets" (M-18)

KONDORSKIY, Ye. I., Head, Magnetism Laboratory, Moscow State University - (1) "The electrical and galvanomagnetic properties of thin films at very low temperatures" (M-5); (2) "On the connection between the spontaneous magnetization of current carriers and the Nernst-effect in ferromagnetic metals" (M-4); "The exchange interaction and magneto-effects in ferrites-garnets" (M-15)

USSR (cont.)

LOBACHEV, B., and VAYNSHTEYN, B., Institute of Crystallography, Moscow - "Electron diffraction study of thiourea CO (NH2)2"

LYASHENKO, B. G., Central Scientific Research Institute of Metallurgy, Moscow - "The problem of the influence of spontaneous magnetization on crystal structure and phase state of alloys" (M-8)

LYASHENKO, B. G., LIVITIN, D. F., FUZEY, I.M., ABOV, Yu G. Central Scientific Research Institute of Metallurgy, Moscow - "Neutron diffraction investigation of order-disorder in the alloys 'Ferrum-nickel and ferrum-cobalt'" (J-1)

OZEROV, R. P., KOGAN, V. S., ZHDANOV, G. S., Scientific Research Physico-Chemical Institute imeni L. Ya. Karpov, Moscow - "Neutron diffraction study of the structure of solid hydrogen and deuterium" (C-8)

PINSKER, Z. G., Institute of Crystallography, Academy of Sciences USSR, Moscow - "Results and progresses of electron diffraction analysis" (C-11)

FUZEY, I. M., Scientific Research Institute of Metallurgy, Moscow - "Magnetic anistropy in monocrystals of Ni-Fe-Co alloys" (M-9)

SHUR, Yakov S., Scientific Research Institute of Metallurgy, Moscow - "Some problems of the physics of high coercive materials" (M-17)

SMOLENSKIY, G. A., Institute of Semiconductors, Leningrad - "Some investigations of non-metallic ferro and antiferromagnetics" (M-13)

VAYNSHTEYN, B. K., Institute of Crystallography, Academy of Sciences USSR - "Development of electron diffraction method" (C-11)

YAMZIN, I. I., BELOV, N. V., NOZIK, Y. Z., Institute of Crystallography, Moscow - "Atomic and magnetic structures of magnese ferrite" (J-2)

VONSOVSKIY, S. V., Institute of the Physics of Metals, Academy of Sciences USSR, Sverdlovsk. A member of the IUPAP Commission on Magnetism. See paragraph 1 of Comment for a complete listing of members of the Commission. "Some investigations of Soviet physics on the theory of ferromagnetism for the last years" (Invited paper. Section M-11)

paper to be submitted for the IUPAP Intl. Conference on Magnetism and Crystallography, Kyoto, Japan, 25-30 Sep 1961

RUDASHEVSKIY, I.G., kand.tekhn.nauk, dotsent

Flexure of rods under complex transverse and uniformly distributed compressive loading. Trudy LIVT no.15:10-18 '61. (MIRA 14:10)

(Elastic rods and wires)

RUDASHEVSKIY, I. G.

124-1957-10-12081

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 124 (USSR)

AUTHOR: Rudashevskiy, I. G.

TITLE: Some Cases of the Calculation of Bars Subjected to Compression Bending (Nekotoryye sluchai rascheta szhato-izognutykh sterzhney)

PERIODICAL: Tr. Leningr. in-ta inzh. vod. transp., 1956, Nr 23, pp 91-100

ABSTRACT: Formulas for the bending moment, deflections and angles of section twist in terms of basic parameters, are developed for four cases of longitudinal-transverse bending of beams with uniform cross-sections, fixed at one end, subjected to various types of transverse loads in addition to one uniform longitudinal load.

S. M. Zavartsev

Card 1/1

RUDANOVSKIY, S.N.

Determining the fractional composition of samples of free-flowing materials by the size of the particles. Zav.lab. 30 no.3:368-370 '64. (MIRA 17:4)

RUDASHEVSKI , S. YE. DOCENT

Vvedenskiy, Nikolay Evgen'evich, 1852-1922

N. Ye. Vvedenskiy and his theory. Vest. ven. i derm. No. 3 1952.

Monthly List of Russian Accessions. Library of Congress, October 1952. UNCLASSIFIED.

1. RUDASHEVSKIY, S. YE., SUZDAL'SKAYA, I. P.

2. USSR (600)

4. Physiology

7. Sub-section in physiology. Vest. Len. un., 7, No. 1, 1952

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

1. PUDASHEVSKIY, S. YE.

2. USSR 600

4. Physiologists

7. N. E. Vvedenskii and his scientific work, Vest. Len. un, 7, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

RUDASHEVSKIY, S.Ye.; NEKRYLOV, F.P.

Effect of direct current on Sechenov's inhibition. Uch.zap.Len.un. no.138:288-303 '52. (MLRA 9:6)

1.Iz Laboratorii fiziologii tsentral'noy nervnoy sistemy Fiziologicheskogo instituta imeni akademika A.A.Ukhtomskogo i Leningradskogo gosudarstvennogo universiteta imeni A.A.Zhdanova.
(SPINAL CORD)

MUSAKHANOVSKIY, S. E.

Clinical and physiological aspects and treatment of paralysis. Leningrad, Gos. ordena Lenina universitet imeni A.A. Zhdanova, 1955. 147 p.

1. Paralysis.

RUDASHEVSKIY, S. YE.

Uchenye zapiski Leningradskogo gosudarstvennogo universiteta. No. 164, Fiziologiya i biokhimiya (Scientific Notes of the Leningrad State University, No. 164, Physiology and Biochemistry), Leningrad University imeni A. A. Zhdanov Press.

Contents: The Physiology of Higher Nervous Activity -- B. A. Ayrapet'yants, "O vnutrennem singlibrazii" (On Internal Cumulling); N. Ye. Vasilevskaya, "K voprosu o tsepnykh uslovnykh reflexakh" (Toward the Question of Conditioned Reflex Chains), etc; General Laws of Nervous Processes -- L. L. Vasil'yev and N. A. Shoshina, "Vosstanovlennaye sokrashchenie dorzal'nogo rasdrazhennym sistrakardial'nykh nervov" (Restoration of Heart Activity By Stimulation of Intracardial Nerves); S. Ye. Rudashevskiy, "O tsentral'nykh vliyaniyakh v sechenovskom tormozhenii" (On the Central Influences of Sechenov Inhibitions") etc; Biochemistry-- A. Ye. Vladimirov, "Nekotoryye novyye dannyye po energeticheskoy kharakteristike rodstvennykh kislot" (Several New Facts on the Energy Characteristic of the Glycolysis Related); T. N. Ivanova, "Vozrastnyye izmeneniya kolichestva nukleinovykh kislot v skeletnoy i serdechnoy myshtse krolika" (Age Modifications of the Number of Nucleic Acids in Skeletal and Cardiac Muscles of the Rabbit); K. I. Prokhorova, "K voprosu ob uglevodnom obmene rozga pri normal'nom ego sostoyanii" (On the Problem of the Carbohydrate Metabolism of the Rayin in Its Normal State"), etc.

SO: Sovetskiye knigi (Soviet Books), No. 106, 1953, Moscow, (U-6472)

RUDASHEVSKIY, S.Ye.

Central influences in Sechenov's inhibition. Uch.zap.Len.un. no.164:76-87 '54. (MLRA 10:3)

(INHIBITION) (NERVOUS SYSTEM)

RUDASHEVSKIY, S.E.

RUSETSKIY, I.I.

"Clinical and physiological study and therapy of paralysis." S.E. Rudashevskii, I.E. Prigonnikov. Reviewed by I.I. Rusetskii. Zhur. nevr. i psikh. 55 no.7:558-559 '55. (MLRA 8:10)
(PARALYSIS) (RUDASHEVSKII,S.E.)

VORONOV, Yu.A.; GULYAYEV, P.I.; RUDASHEVSKIY, S.Ye.

Development of A.A.Ukhtomskii's teachings on the parabiotic nature of the refraction phase [with summary in English]. Biul.eksp.biol. i med. 44 no.12:27-31 D '57. (MIRA 11:4)

1. Iz Fiziologicheskogo instituta imeni akademika A.A.Ukhtomskogo Leningradskogo gosudarstvennogo universiteta. Predstavlena deystvitel'nym chlenom AMN SSSR D.N.Nasonovym.

(NERVOUS SYSTEM, physiology
refraction phase, Ukhtomskii's theory on parabiotic aspect (Rus))

RUDASHEVSKIY, S.Ye.

Interbreed differences in the functional stability of the neuromuscular system in hens [with summary in English]. Vest. LGU 13 no.15:140-143 '58. (MIRA 11:9)

(Poultry breeds) (Electrophysiology)

VORONOV, Yu.A.; GULYAYEV, P.I.; RUDASHEVSKIY, S. Ye.; SYSOYEV, V.V.

Parabiotic phenomenon in microintervals of time. Nerv. sist. no.4:23-26 '63 (MIRA 18:1)

1. Fiziologicheskiy institut Leningradskogo universiteta.

MIDASHEVSKIY, S. Ye.

Effect of the inhibiting structures of the reticular formation on the spinal reflexes. Nerv. sist. no.4:101-104 '63 (MIRA 18:1)

1. Fiziologicheskiy institut Leningradskogo universiteta.

RUDASHEVSKIY, S.Ye.

I.M. Sechenov's theory on the central inhibition. Vest. LGU 20 no.3:5-16 '65. (MIRA 18:2)

VORONOV, YU.A., GULYAYEV, P.I., RUDASHEVSKIY, S.YE., SYSOYEV, V.V.

"Phenomena of parabiosis in microintervals of time."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

RUDASHEVSKIY, S.Ye.; BRAYNINA, E.G.; GUSEL'NIKOVA, K.G.; STEPUSHKINA, T.A.

Physiological rest and stimulation of spinal centers. Vest.LGU 15 no.21:137-149 '60. (MIRA 14:4)
(Spinal cord) (Electrophysiology)

RUDASHEVSKIY, S.Ye.; SYSOYEV, V.V.

The technique of studying the refractory phase of the heart. Fiziol. zhur. 46 no.10:1297-1299 O '60. (MIRA 13:11)

1. Fiziologicheskiy institut im. A.A.Ukhtomskogo universiteta im. A.A.Zhdanova, Leningrad.
(HEART) (ELECTROCARDIOGRAPHY)