

Automation of Cold [Metal] Stamping Production	SOV/5580	
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AVAILABLE: Library of Congress		

Card-5/5

VK/wrc/mas  
9-13-61

ARTONOWICZ, K.

Mathematical Reviews

Vol. 15 No. 4

Apr. 1954

Numerical and Graphical Methods

3  
D  
Antonowicz, K. An integrating apparatus for the Schröd-  
inger equation. Acta Phys. Polonica 12, 163-169 (1953).  
(Russian summary)

8-24-54  
LV

ANTHROPOLOGY, A.

An interra in apparatus for the Scindinavian constitution. II. In English. p.385  
ANNA HISTORICA ET GEOGRAPHICA (Polska Akademia Nauk, Komitet Historyczny) Warszawa  
Vol. 14, no. 3, 1915

So. West European Accessions List Vol. 4, No. 3 September 1966

*Antoniowicz, A.*

POLAND/Magnetism - Magnetic Resonance

F-7

Abs Jour ; Ref Zhur - Fizika, No 6, 1958, No 13371

Author : ~~Antonowicz-K.~~  
Inst : University of Nicolai Copernicus, Torun, Poland  
Title : Nuclear Resonance Signals in Flowing Liquid

Orig Pub : Sull. Acad. polon. sci., 1957, cl. 3, 5, No 8, 813-818

Abstract : Signals of magnetic resonance of protons have been observed in distilled water flowing continuously through the transducer coil. A setup was used with an external generator and crossed coils. The signals were observed on an oscillograph screen. On the basis of the approximate solution of the Bloch equations, with allowance for the process of settling of the process of establishment of the magnetization upon flow of liquid in the magnetic field, the author has found the optimum value of the speed, corresponding to the maximum amplitude of the absorption signal at the specified radio-frequency field. At high speeds, the amplitude of the signal is proportional to the time of flow of the liquid through the transducer coil. The form of the signal for a flowing liquid differs from the form of the signal for a stationary liquid.

Card : 1/1

POLAND/Magnotien - Magnetic Resonance

F-7

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 20598

field occurs when the condition  $(\gamma H_{max})^2 T_1 T_2 \tau = 1$  is satisfied. Knowing the ratio  $H_{max}$  for various  $T_0$  and the values of  $T_0$ , it is possible to determine  $T_1$  and  $T_2$ . The method has been verified experimentally for moving water, and the value of  $T_2$  could be neglected as very small (in an inhomogeneous magnetic field). Measurements were made at values of  $T_0$  from 0.1 to 1 second and gave a value of 2.3 seconds for  $T_1$ .

Card : 2/2

Abs Jour : Ref Zhur - Khimiya, No 3, 1959, No. 7261

Author : Antonowicz, Kazimierz

List : Not given

Title : Nuclear Magnetic Resonance and Its Utilization

Orig Pub : Postopy fiz., 1958, 9, No 3, 303-326

Abstract : A review. Bibliography 31 references.

Card 1/1

ANTONOWICZ, K.

Field homogenizing iron plates for nuclear spin resonance spectrometer.  
Bul Ac Pol mat 8 no.2:115-116 '60. (EEAI 9:12)

1. Department of Physics, Nicholas Copernicus University, Torun.  
Presented by A.Jablonski.

(Spectrometer)  
(Nuclear spin)  
(Magnetic resonance)  
(Iron)

8/194/62/000/010/038/084  
A063/A126

AUTHOR: Antonowicz, Kazimierz

TITLE: Quantum amplifiers

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962, 41, abstract 10-3-85ts (Prace przemysl. inst. elektroniki, 1961, v. 2, no. 1, 49 - 65; Polish; summaries in English, Russian)

TEXT: The basic problems of the theory of quantum amplifiers (masers) is presented without complicated mathematical treatment involving quantum radio-physics. The possibility of quantum amplification is discussed, using a thermodynamic approach to induced and spontaneous molecular radiation (Einstein method). The action of gas-like (ammoniac) and crystalline amplifiers is discussed in detail. The operational principle of such an amplifier is investigated using, as an example, a Blumbergen-type quantum amplifier (3-level system). Its description is available in published technical literature. There are 10 references. ✓

[Abstracter's note: Complete translation]

R.F.

Card 1/1

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101810014-5

APPROVED FOR RELEASE: 06/19/2000

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POLAND/Chemical Technology. Chemical Products  
and Their Applications. Ceramics. Glass.  
Binding Materials. Concrete.

H-13

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24128

Author : Antonowicz, W.

Inst : -

Title : Production of Structural Materials from  
Coal Schists.

Orig Pub : Mater. Budowl., 1958, 13, No 8, 243-246

Abstract : No abstract.

Card : 1/1

H-51

BRUTUS, L., kand. ekon. nauk, glav. red.; ANTONOV, E., red.; POLJANSKI, U., red.;  
KAGANOVITS, I., kand. ekon. nauk, red.; KUII, E., kand. ekon.  
nauk, red.; MUREL, R., red.; RANNIK, E., red.; VINT, E.,  
kand. ekon. nauk, red.; RIIKOJA, L., red.; KCHU, H., tekhn.  
red.

[Economic life of Soviet Estonia, 1940-1960] Noukogude Eesti  
majandus, 1940-1960. Tallinn, Eesti Riiklik Kirjastus,  
1960. 478 p. (MIRA 16:6)

1. Eesti NSV Tööstuse Akadeemia, Majanduse Instituut. 2. Chlen-  
korrespondent AN Estonskoy SSR (for Antons).  
(Estonia--Economic conditions)

BRUTUS, L., otv. red.; ANTONS, R., akademik, red.; KADA, A.,  
red.; RAUD, A., red. [deceased]; TULP, L., red.;  
KIVILA, H., red.; RIISEBERG, A., tekhn. red.

[Materials of the Republic Scientific Economic Conference]  
Vabariikliku majandusteadusliku konverentsi materjalid.  
Tallinn, Eesti NSV Teaduste Akadeemia Majanduse Instituut,  
1962. 171 p. (MIRA 17:1)

1. Vabariiklik majandusteaduslik konverents, Tallinn, 1960.
2. Eesti NSV Teaduste Akadeemia (for Antons).  
(Estonia--Economics)

KIVIT, A.A., red.; ~~ANTONS, B.L., red.~~; AARNA, A.Ya., prof., doktor  
tekhn.nauk, retsentsent; KULL', E.V., kand.ekon.nauk, retsentsent;  
RAZINA, G.M., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Technology and economic aspects of the industrial semicoking of  
oil shales] Voprosy tekhniki i ekonomiki promyshlennogo polukokso-  
vaniia goriuchikh slantsev. Leningrad, Gos.nauchno-tekhn.izd-vo  
neft. i gorno-toplivnoi lit-ry, Leningr.otd-nis. No.2. 1959.  
429 p. (MIRA 12:10)

1. Kiviõli Põlevkivikeemia Kombinaat.  
(Oil shales)

ROLOVS, B., dots.; ANTONS, Z., red.

[Nuclear physics] Kodolfizika. Riga, Latvijas Valsts izd-  
ba, 1964. 389 p. [In Latvian] (MIRA 18:7)

*Antonsik E.*  
CZECHOSLOVAKIA / Solid State Physics - Solid State Theory

E-2

Abs Jour : Ref Zhur - Fizika, No. 6, 1957 No. 11579.

Author : Antonsik Emil, Trlifaj Miroslav

Inst : -

Title : Concerning the Remark by J. Koustecki.

Orig Pub : Ceskosl. časop. fys., 1956, 6, No.1, 99

Abstract : It is shown that in the solution proposed by J. Koustecki (Referat Zhur Fizika, 1957, 9139), the second term should vanish, and the constant  $C_2$  vanishes from physical considerations. It is also noted that the approximation that was used to solve the equation and which has caused the strong objections on the part of Koustecki, is necessary only to construct the zero approximation, and later, in the subsequent approximations, all the previously discarded terms of the equation are taken into account.

It is indicated in the remark by the editor that

Cards: 1/2

UVNES, B. [Uvnes, B], ANTONSON, Dzh. [Antonsson, Judith]

Triggering action of phosphatidase A and chymotrypsins on  
degranulation of mesenteric mast cells in rats. Uch.zap.  
Inst. farm. i khimioter. AMN SSSR 3:336-346'63. (MIRA 16:9)

1. Department of Pharmacology, Karolinska Institutet, Stock-  
holm 60, Sweden.

(CHYMOTRYPSIN) (PHOSPHOLIPASE)



ANTONTSEV, P.F.

The MP washing machine. Biul.tekh.-ekon.inform. no.12:8-9  
'59. (NIRA 13:4)

(Washing machines)

ANTONTSEVA, L., inzh.

Air conditioning in overheated food-processing shops. Khol.tekh.  
37 no.3:32-34 My-Je '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy  
promyshlennosti. (Food industry) (Factories--Air conditioning)

ANTONTSEVA, L.A.

Self-contained air conditioner "Azerbaijan-2." Khol. tekhn. 40  
no.4:74-75 J1-Ag '63. (MIRA 16:8)

(Azerbaijan--Air conditioning--Equipment and supplies)

ANTONTSEVA, L.A.

Mechanical OVV-1,4 dehumidifier. Khol. tekhn. 40 no.4:75-76  
J1-Ag '63. (MIRA 16:8)

(Azerbaijan--Air conditioning--Equipment and supplies)

ANTONTSEVA, L.A.

Self-contained "Kharkov" air conditioner. Khol. tekhn. 40  
no. 4:76-77 J1-Ag '63. (MIRA 16:8)

(Kharkov--Air conditioning--Equipment and supplies)

SOV, 113-59-1-2/20

AUTHOR: Antonova, L.N., Bazanova, V.S., and Goncharenko, B.L.,  
Candidate of Economic Sciences.

TITLE: Supplementary Indices for Assessing Production Volume in  
Mass and Large-Scale Production (Dopolnitel'nyye pokazateli  
izmereniya ob'yema produktov v massovom i krupnoseriynom  
proizvodstve)

PERIODICAL: 'Avtomobil'naya promyshlennost', 1959, Nr 2, pp 1-3 (USSR)

ABSTRACT: The paper examines the new project, which has been develop-  
ed by the Economic Research of the USSR Gosplan, entitled  
"Basic Thesis in Preparing the State Plan for the Develop-  
ment of the National Economy" (Osnovnyye polozheniya i  
sostavleniyu gosudarstvennogo plana razvitiya narodnogo  
khozyaystva). This project gives the Sovnarkhozes the  
right to introduce supplementary indices for evaluating  
the production volume in the plants under their control.  
These indices are the values of gross and commodity out-  
puts from which was deducted the value of all purchased  
prefabricated articles, assemblies and details, semi-  
products and essential materials. The authors propose the

Card 1/2

SOV/113-59-2-2/20

Supplementary Indices for Assessing Production Volume in Mass and Large-Scale Production

introduction of a uniform machining index in all motor-vehicle and spare parts plants under the general supervision of the USSR Gosplan, and discuss its advantage over other indices in assessing the production volume. In conclusion they state that the introduction of this index will secure accurate evaluation of the production volume and will make it possible to obtain comparable indices of the production conditions in different plants. There are six tables.

ASSOCIATION: Nauchno-issledovatel'skiy ekonomicheskij institut Gosplana SSSR (The Economical Research Institute of the USSR Gosplan)

Card 2/2

HUNGARY

ANTONY, Ferenc, Dr., Frederic Joliot-Curie National Research Institute for Radiation Biology and Radiation Hygiene (Országos 'Frederic Joliot-Curie' Sugárbiológiai és Sugáregészségügyi Kutató Intézet) (location not given) (Director: VARTERESZ, Vilmos, Dr.); author's current affiliation: Department of Radiobiology at the International Atomic Energy Agency in Vienna, Austria.

"Application of Ionizing Radiation to the Sterilization of Drugs, Biological Products, and Therapeutical Instruments"

Budapest, Orvosi Hetilap, Vol 107, No 26, 26 Jun 1966, pp 1216-1218.

Abstract: The author reviews new data pertaining to the sterilization of drugs, biological products, and medical instruments with ionizing radiation on the basis of references in the literature. 46 references, including 2 German, 2 Hungarian, and 42 Western.

1/1



ANTONY, Cojma, Inc.

Jaw crushers with hydraulic drive. Rudy 9 no.11:394-396 N '61.

(Crushing machinery)

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Applications - Fermentation Industries. H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37761

Author : Barta, J., Antony, K., Hrdy, M., Rosa, M.

Inst : -

Title : Elimination of the Scale from Evaporators of Alcohol-Molasses Plants.

Orig Pub : Kvasny Prumysl, 1957, 3, No 10, 223-224

Abstract : Elimination of scale from evaporators of alcohol-molasses plants by boiling with 3.5% lactic acid (from spent or technical grade 30-50% acid) for 1-3 hours is recommended. If the scale adheres it is necessary to rub it off immediately, before it hardens upon drying.

Card 1/1

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application. Fermentation Industry. H-27

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 17208

Author : Rosa, M.; Antony, K.

Inst : Not given

Title : Determination of Residual Sugar in the Manufacture of Alcohol from Molasses

Orig Pub : Kvasny prumysl, 1958, 4, No 7, 152-155

Abstract : The chromatographic method (on paper) reveals that fructoses ferment at a slower rate than other sugars present in molasses. Glucose is analyzed from the residual sugar (RS) and the determination is possible when the latter is present in quantities  $>0.7\%$ . The rate of sucrose inversion is so rapid that in an aged brew, glucose normally is not present. Calculations indicate that for normal brews containing RS (0.3 - 0.4%) the latter

Card 1/2

GOTTSEGEN, Gyorgy, Dr.; ANTONY, Miklos, Dr.; SZAM, Istvan, Dr.

Marfan syndrome, pseudotruncus arteriosus and brain abscess. Orv. hetil.  
99 no.48:1685-1688 30 Nov 58.

1. Az Országos Kardiológiai Intézet (igazgató: Gottsegen György dr.)  
és a Fovárosi Istvan Kórház Ideggyógytálcájának (főorvos: Lehoczky Tibor dr.)  
közleménye.

(ARACHNOID DACTYLY, case reports

with pseudotruncus arteriosus & brain abscess (Hun))

(BRAIN, abscess

with pseudotruncus arteriosus & arachnodactyly (Hun))

(CARDIOVASCULAR DEFECTS, CONGENITAL, case reports

pseudotruncus arteriosus with arachnodactyly & brain  
abscess (Hun))

ANTONYAK, A. I., insh.

Centering the VT-170-3000 turbine exciter with a hollow  
armature shaft on the rotor of the generator. Blok.sta. 31  
no.2:89-90 P '60. (MIRA 13:5)  
(Turbinogenerators)

ՀԱՅԱՍՏԱՆԻ Ա. (& MAMIKONYAN, H. & MARKOSYAN, V.)

Մուշնոյա թուշան'լոշնալեյ ի մարտի Բոր'ի և յայ (Breeding disease of horses and  
measures to combat it). Brevan, Ararat, 1950, 20 pages with illustrations. In  
the Armenian language.

U-4258, 30 Jul 1953, p 4

31073. ANTONYAN, A. A. AND MIRZOYAN, G. I.

Perifericheskiy paralich litsevoogo nerva posle ukusa Kara-Kurta. Vracheb.  
delo, 1949, No. 10, stb. 947-48

MIRZOYAN, G. I.; ANTONYAN, A. A.

Venom - Physiological Effect.

Bite of *Lathrodectus*<sup>\*</sup> *tredecimguttatus* Rossi. Sov. med. 16 No. 5, 1952.

[\* black widow spider]

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



MIRZOYAN, G.I.; ANTONYAN, A.A.; TOBOSYAN, S.A.; STEPANYAN, A.V.

On the problem of the pathology of vegetative function. Zhur.nevr.  
i psikh. 55 no.7:531-533 '55. (MLRA 8:10)

1. Poliklinika II Meditsinskogo ob'yedineniya Yerevana (glavnyy  
vrach-- A. A. Yesayan)  
(AUTONOMIC NERVOUS SYSTEM, diseases)

MIRZOYAN, G.I.; NERSISYAN, A.S.; AMTONYAN, A.A.; TRORSYAN, S.A.; MURADYAN, G.T.

Disorders of the nervous system in trichinosis. Zhur.nevr. i psikh.  
Supplement:18-19 '57. (MIRA 11:1)

1. Klinika nervnykh bolezney (zav. - prof. G.I.Mirzoyan) II Medi-  
tsinskogo ob'yedineniya, Yerevan.  
(NERVOUS SYSTEM--DISEASES)  
(TRICHINA AND TRICHINOSIS)

KHODOROVA, Ye.I. [Khodorova, I.E.I.]; VEREMEYENKO, K.N. [Veremienko, K.M.];  
ANTONYAN, A.A.

Separation of serum trypsin inhibitors and the study of their  
influence on tryptic hydrolysis of various substrates. Ukr.  
biokhim. zhur. 36 no.5:643-653 '64. (MIRA 18:6)

1. Institut biokhimii AN UkrSSR i laboratoriya biokhimii Instituta  
otolaringologii Ministerstva zdravookhraneniya UkrSSR, Kiyev.

ANTONYAN, A.A.; KHODOROVA, Ye.L. [Khodorova, I.E.L.]

Quantitative determination of trypsin inhibitors. Ukr. biokhim.  
zhur. 37 no.13-7 '65. (MIRA 1815)

1. Institut biokhimii AN UkrSSR, Kiyev.

ANTONYAN, A.I., inshener.

Burning out of stator winding tips due to faulty soldering of end connections. Elek.sta.27 no.12:52-53 D '56. (MIRA 10:1)  
(Electric generators) (Solder and soldering)

ANTONYAN, A.I., inzh.

Damage of the VT-120-3000 turbogenerator exciter. Elek. sta.  
30 no.3:94 Mr '59. (MIRA 12:5)  
(Turbogenerators)

ANTONYAN, Aram Isaakovich; SHAKHMATOV, Maksim Anan'yevich;  
TITOV, V.V., kand. tekhn. nauk, rotsenent; KLEYMAN,  
L.I., inzh., red.; ZHITNIKOVA, O.S., tekhr. red.

[Installation of hydrogen-cooled turbogenerators] Montazh  
turbogeneratorov s vodorodnym okhlazhdeniem. Moskva, Gos-  
energoizdat, 1963. 207 p. (MIRA 17:3)

AVAKYAN, V.A.; ANTONYAN, A.S.; MINGYAN, R.A.

Results of observations on patients having had typhoid fever and bacterial carriers at the Sumgait Chemical Plant (1954—1964).

Zhur. mikrobiol., epid. i immun. 42 no.11:135-136 N '65.

(MIRA 18:12)

1. Mediko-sanitarnaya chast' Sumgait'skogo khimicheskogo zavoda, Azerbaydzhanskaya SSR. Submitted March 9, 1965.



Name: ANTONYAN, Gurgen Gerasimovich

Dissertation: Litorary Ties between Armenia and  
Azorbaydzhan in the 19th and 20th  
Centuries

Degree: Doc Philological Sci

Affiliation: Azerbaydzhan State Ped Inst imeni Lenin

Defense Date, Place: 26 May 55, Council of Yerevan State U  
imeni Molotov

Certification Date: 30 Jun 56

Source: BMVO 5/57

ANTONYAN, K.A.; ALEKSANDRYAN, M.A.

Preserved immune blood according to differential indices.  
Probl. gemat.i perel krovi 6 no.1:47-49 '61. (MIRA 14:2)  
(BRUCELOSIS) (SERUM)

AKOPYAN, S.A.; BALASANYAN, M.I.; ANTONYAN, K.A.; PAPOYAN, S.A.; AVETYAN, S.G.; GASPARYAN, E.A.; PKHRIKYAN, Zh.A.; ARUTYUNYAN, T.G.

Immunobiological changes during septicopyemic processes in animals afflicted with radiation sickness. Izv. AN Arm. SSR. Biol. nauki 13 no.8:45-59 Ag '60. (MIRA 13:9)

1. Kafedra fiziologii cheloveka i zhivotnykh Yerevanskogo gosudarstvennogo universiteta, Nauchno-issledovatel'skiy institut perelivaniya krovi Ministerstva zdravookhraneniya Armyanskoy SSR i Nauchno-issledovatel'skiy institut rentgenologii i onkologii Akademii nauk Armyanskoy SSR.

(RADIATION SICKNESS)  
(LEUCOCYTOSIS)

(SEPTICEMIA)

OGANESTAN, S.S.; ANTONYAN, S.G.

Effect of insulin on the conditioned reflex activity of the brain.  
Izv. AN Arm. SSR. Biol.nauki 12 no.8:3-13 Ag '59. (MIRA 12:12)

1. Institut fiziologii AN ArmSSR.  
(INSULIN) (CONDITIONED RESPONSE)

ANTONYAN, S.G.

Effect of ionizing radiation on the heart. Izv. AN Arm. SSR.  
Biol. nauki 17 no.7:45-54 31 '64.

(MIRA 17:10)

Institut biofiziki Ministerstva zdoravookhraneniya SSSR i  
Yerevanskiy institut kardiologii i seratsionoy khirurgii AN  
SSSR.

Author: ANTONYW, J. G.

Title: Effect of ionizing radiation on the heart

Source: ANATOMY, REV., Biobioscience publ., v. 17, no. 7, 1964.

Index Terms: heart, myocardium, radiation effect, radiation injury,

ABSTRACT Some literature studies indicate that the heart is  
radiation resistant, and many studies show that the heart is subject to  
radiation damage. This review discusses the effects of radiation on the heart

literature sources which discuss the effects of radiation on the heart under  
normal conditions and also discuss reactions when the heart has been  
damaged by factors other than radiation, such as trauma, hypoxia, or other  
factors. No conclusions are drawn. ANATOMY, REV., Biobioscience, publ., 1964.

Card 1/2

1. 18324-45

MISSION NO: APL0250

... Institute of Mirzdrava.

Card 2/2

ANTONYAN, T.S.; ROYTMAN, R.N.

The KZDSh-58 pyrotechnic relay. Bezop. truda v prom. 5 no. 2:25-  
26 F '61. (MIRA 14:2)

1. Proizvodstvenno-eksperimental'noye upravleniye tresta  
Soyuzvzryvprom.

(Detonators)



ANTONYAN, G. S., et al.; ROMANOV, I. I., et al.; ROMANOV, I. I., et al.;  
ROMANOV, I. I., et al.

Automation of fuel supply operations in electric power plants in  
Norezhinsk. Energiya. 1970. No. 6: 60-62. 2 p. (USSR)

ANTON'YANTS, V. YA.

В. Я. Антоныч  
А. В. Антоныч  
О работе радио станций типа М (фронтальная  
стационарная станция)

10. СЕРИЯ ПЕРИОДИЧЕСКИХ ПУБЛИКАЦИЙ ЦСР  
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11. 1959  
(с 10 по 18 номер)

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А. В. Антоныч

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В. Я. Антоныч

report submitted for the Centennial Meeting of the Scientific Technological Society of  
Radio Engineering and Electrical Communications in. A. G. Paper (VRSB), Moscow,  
6-10 June, 1959

А. В. Антоныч  
В. Я. Антоныч

Периодический журнал радиотехники и  
связи

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11. 1959  
(с 10 по 18 номер)

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REF ID: A660

77195

SOV/109-5-1-8/20

AUTHORS: Mikaelyan, A. L., Anton'yants, V. Ya.

TITLE: Mixing of Super-High Frequencies by Means of Ferrites

PERIODICAL: Radiotekhnika i elektronika, 1950, Vol 5, Nr 1, pp 90-104 (USSR)

ABSTRACT: In the study the effect of electromagnetic oscillations of two nearby frequencies on small-size magnetized ferrite samples is discussed. Introduction. The fundamental considerations on behavior of a small magnetized ferrite sample placed within the field of two nearby frequencies are explained. The application of this phenomenon to technical purposes is mentioned. Results obtained by the Soviet and U.S. scientists are discussed. (1) Basic Computing Correlations. The equation for the motion of the magnetic moment with losses accounted for is given in the form:

$$\frac{dM}{dt} = \gamma \mathbf{M} \times \mathbf{H} + \frac{\alpha}{M} \left[ \dot{M}, \frac{dM}{dt} \right]. \quad (5)$$

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Mixing of Super-High Frequencies by  
Means of Ferrites

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where  $\vec{H}^1$  is the resultant internal field in the ferrite; and  $\alpha$  defines the magnetic losses and is connected with the absorption curve  $\Delta H$  of half-width. A spherical ferrite sample is taken. Its internal field may be determined by demagnetizing factors. Signals of two nearby frequencies acting on the ferrite sample are given in the form of circularly polarized waves. The reception of power of oscillations of the difference between the frequencies is accomplished by a coil mounted on the ferrite and connected to the resonance circuit. The resultant expression for amplitude of voltage  $U$  of the difference of frequencies is given in the form:

$$U = \frac{2\pi S(\omega_1 - \omega_2) V P_1 P_2}{r V \omega_1 \omega_2 \Delta H} (1 - N_1), \quad (17)$$

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where  $Q$  is the quality factor of the circuit;  $n$  is the number of turns on the ferrite;  $S$  is the area of a turn;  $P_1$  and  $P_2$  are powers absorbed by the ferrite at frequencies  $\omega_1$  and  $\omega_2$ ; and  $\Delta H$  is one-half of the width of the resonance curve.  $N_z$  is the demagnetizing factor. All quantities of Eq. (17) may be obtained experimentally. (2) Description of the Measuring Arrangement. Figure 1 shows the diagram of the experimental arrangement. By means of this arrangement the absorption of SHF-oscillations in the ferrite and voltage of difference of frequencies may be measured. The SHF-oscillations of frequencies  $\omega_1$  and  $\omega_2$  from Klystrons 1 and 2 enter the channel with the short-circuited section 11 at its end. The ferrite sample 12 is placed at a distance  $\lambda/2$  from the short circuit, i.e., in the loop of the magnetic field. The power reflected from section 11, through coupler 3 with a high direction (40 db) enter the microammeter 10, after being detected. In this case the microammeter 10 serves

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Mixing of Super-High Frequencies by Means of Ferrites

77195  
SOV/109-5-1-8/20

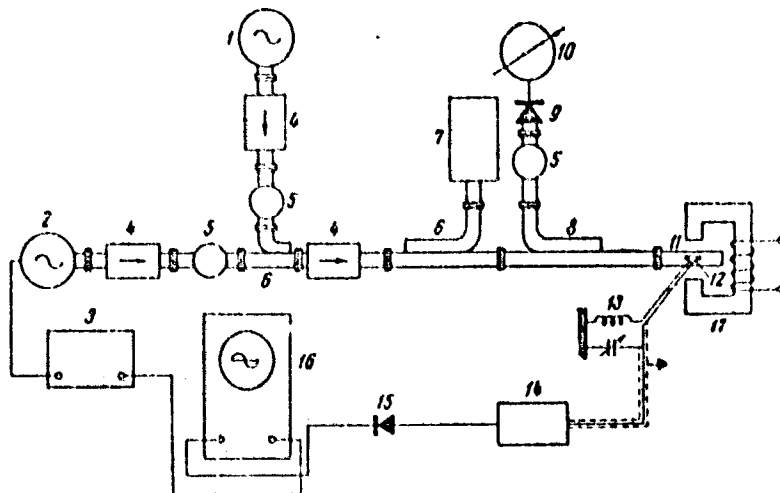


Fig. 1  
(Caption on next card)

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Mixing of Super-High Frequencies by  
Means of Ferrites

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SOV/109-5-1-8/20

Fig. 1. Diagram of the experimental arrangement: (1,2) Klystrons; (3) modulator; (4) ferrite decouplings; (5) attenuator type 67-I; (6,8) directional coupler; (7) power meter of type 34-IM; (9) detector section; (10) microammeter of IM-type; (11) short-circuited section; (12) ferrite sample; (13) contour; (14) intermediate frequency amplifier for 50 mc; (15) detector; (16) oscilloscope of type EO-7; (17) electromagnet.

Caption for Fig. 1.

as an indicator of the power reflected from section 11. Power in the input to section 11 is measured by meter 7. The ferrite sample 12 is under the force of a constant magnetic field created by the electromagnet 17. As the magnetic field changes in intensity so changes also the absorption by the ferrite. The resonance magnetic loss may be determined by measuring the ratio of the power reflected from section 11 in fields which correspond to minimum and maximum values of absorption in ferrite.

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Mixing of Super-High Frequencies by  
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SOV/107-9-1-5/70

Since the input power is known, the losses in the ferrite are obtained from the equation:

$$P_{Fe} = P_{in} \left( 1 - \frac{P_{out}}{P_{in}} \right). \quad (18)$$

To measure the signal of the difference in frequencies two turns of wire  $\phi$  0.1 mm are wound on ferrite. The ends of this wire are connected to circuit 13 tuned to this frequency. The signal enters oscilloscope 16. The experiments were conducted with samples of various diameters. Samples were made of monocrystal and polycrystal ferrites of various trademarks. The results are given in the form of tables where the values of absorbed power by ferrite under resonance are given, as well as measured and calculated signal magnitudes. The measured and calculated results for the monocrystalline ferrites coincide. For the polycrystalline ferrites these results differ. This difference is

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caused by the different magnetic properties of crystals of polycrystalline ferrite. A brief discussion of this phenomenon is given and an equation for the magnetization of the polycrystalline ferrite is obtained. Other experiments were made with samples of greater dimensions. There are given curves of signal amplitudes and of the absorption by ferrite as a function of a constant magnetizing field for various diameters of ferrite rods. A brief discussion is given on the balance mixer. On the basis of the results obtained in this study it follows that for a mixer it is best to have a balance diagram. In such an arrangement full power of signal and of the heterodyne are used, and the heterodyne noises can be compensated when the arms of the mixer are made highly identical. There are 9 figures; and 10 references, 4 Soviet, 1 French, 5 U.S. The U.S. references are: W. P. Ayres, P. H. Vartanian, J. L. Melcher, J. Appl. Phys., 1956, 27, 2, 188; J. L. Melcher, W. P. Ayres, P. H. Vartanian, Proc. I.R.E., Part I 1957, 45, 5, 643; D. Jaffe, I. C. Cacheris, N. Karayianis, I.R.E. Convent Rec., Part I 1957, March, 18-21, 242-249; E. N. Skomal, M. A. Medina, J. Appl. Phys., 1958, 29, 3, 423;

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Mixing of Super-High Frequencies by  
Means of Ferrites

7719,  
SOV/109-5-1-8/20

J. E. Pippin, Proc. I.R.E., 1955, 44, 8, 1054.

PRESENTED:

At the Conference on Electronic Devices, in Mexico,  
June 23, 1959

SUBMITTED:

May 30, 1959

Card 8/8

24.2200, 24.7900

77202  
SOV/109-5-1-15/20

AUTHOR: Anton'yants, B. Ya.

TITLE: New Method for Measuring Width of Absorption Curve  
in Ferrites. Short Communication

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 1,  
pp 167-169 (USSR)

ABSTRACT: The existing methods for measurement of the width  
 $2\Delta H$  of the absorption curve in ferrites are based  
on the measurement of changes in the magnetic field.  
This measurement represents certain difficulties when  
the width of the curve is small. The paper suggests  
a method for measurement based on the fact that in  
the region of ferromagnetic resonance the relationship,  
at constant frequency, between absorption in ferrite  
and the magnitude of magnetizing field has approxi-  
mately the same character as the relationship at  
constant magnetizing field between the absorption  
and the frequency. Changes in the frequency may be

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New Method for Measuring Width of  
Absorption Curve in Ferrites. Short  
Communication

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obtained by frequency modulation of the generator  
(Klystron). These changes may be measured by  
means of an echo-resonator. The suggested method is  
illustrated by Figs. 1 and 2.

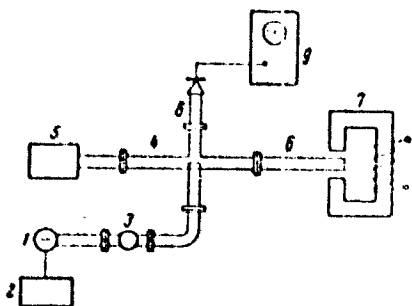


Fig. 1. Schematic setup for  
measurement of narrow ab-  
sorption curves in ferrite.  
(1) Generator; (2) modulator;  
(3) attenuator; (4) double T-  
joint; (5) echo-resonator;  
(6) waveguide section with  
the ferrite measured; (7)  
electromagnet; (8) detector;  
(9) oscillograph.

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New Method for Measuring Width of  
Absorption Curve in Ferrites. Short  
Communication

77202  
SOV/109-5-1-15/20

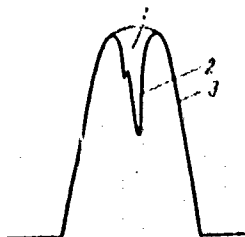


Fig. 2. Absorption curve in ferrite at the Klystron frequency modulation: (1) Mark of the echo-resonator; (2) absorption curve in ferrite; (3) zone of Klystron generation.

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S/109/61/006/007/017/020  
D262/D506

9.2571 (1163, 1147)

AUTHORS: Mikaelyan, A.L., Anton'yants, V.Ya., and Turkov, Yu.G.

TITLE: Effects of coupling between the resonator and the ferrite

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 7, 1961, 1184 - 1193

TEXT: Systems which can be represented as resonators with magnetized ferrites inside them are often used in microwave technique. Such systems can be used as ferrite amplifiers, for the magnetic tuning of resonators, for measuring the ferrite parameters, etc. In the analysis and design of such systems it is usually assumed that the action of the ferrite is restricted to that of varying the resonant frequency and  $Q$  of the resonator. This assumption is valid only for cases when the frequency of ferrimagnetic resonance differs considerably from the resonant frequency of the cavity itself and when the ferrite exhibits the property of heavy magnetic

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S/109/61/006/007/017/020  
D262/D306

Effects of coupling ...

cases. If the above is not the case such system exhibits properties of great practical interest since then the resonator containing the ferrite acts as a system of coupled circuit, one of which is the ferrite and the other the resonant cavity itself. A similar effect can be observed in an acoustical resonant system (ref. 1; P.M. Kors, G. Peshbakh. *Metody teoreticheskoy fiziki*, II p. 442, IL, 1960). The authors present in the present article the results of theoretical and experimental analysis of the behavior of a resonator containing magnetized ferrite. It is shown that the resonator and a small ferrite sample placed inside it behave like a coupled circuit with two resonant frequencies - frequencies of coupling. One degree of coupling is determined primarily by the ratio of volumes of ferrite and of resonator

$$\omega_{1,2} = \frac{1}{2} \left\{ \omega_r + \omega_f \pm \sqrt{(\omega_r - \omega_f)^2 + 2\omega_r \omega_M \frac{V_f}{V_r}} \right\}. \quad (9)$$

In it  $\omega_r$  - resonant frequency of resonator alone,  $\omega_f$  - frequency of ferromagnetic resonance;  $\omega_M = \mu_0 \gamma M_0$  where  $M_0$  the external mag-

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Effects of coupling ...

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netizing field [Abstractor's note: Not defined],  $I_f$  and  $I_r$  are determined by

$$I_f = \int_{V_f} \mu_0 [ |H_{rx}|^2 + |E_{ry}|^2 + j(H_{ry}H_{rx}^* - H_{rx}H_{ry}^*) ] dv; \quad (7)$$

$$I_r = \int_{V_r} (\mu_0 \vec{H} \vec{H}^* + \epsilon_0 \vec{E} \vec{E}^*) dv$$

since the resonator has many resonant frequencies  $\omega_{rn}$ , the above phenomenon will be observed near any of these frequencies, the degree of coupling between the ferrite and the resonator being determined by the field structure, corresponding to the frequency and type of the wave. Not only the homogeneous precession, but also other types of magneto-static oscillations are shown to be related to the resonant frequencies of resonator. This is shown

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Effects of coupling ...

in Fig. 7, in which the resonator frequency is related to one of the higher modes of oscillations of ferrite. The analysis of this phenomenon may be done using

$$\frac{\omega - \omega_R}{\omega_R} = - \frac{\int_{V_f} \mu_0 \vec{M} \vec{H}_R^* dv \cdot \int_{V_R} (\epsilon - \epsilon_0) \vec{E} \vec{E}_R^* dv}{\int_{V_R} (\mu_0 \vec{H} \vec{H}_R^* + \epsilon_0 \vec{E} \vec{E}_R^*) dv}, \quad (1)$$

where  $\vec{H}_R$ ,  $\vec{E}_R$  - magnetic and electric fields respectively in empty resonator;  $\vec{H}$  and  $\vec{E}$  - the respective fields in the resonator excited by ferrite;  $\vec{M}$  - magnetization of ferrite,  $\epsilon$  - specific inductive capacitance of ferrite;  $V_f$  and  $V_R$  - the volume of ferrite and of resonator respectively. For a ferrite sample in the shape of an ellipsoid with the symmetry axis, the transverse components of magnetization  $\vec{M}$  are related with the external alternating field components  $H_R$  by

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$$M_x = \frac{\chi^e}{u_0} H_{rx} - j \frac{k^e}{u_0} H_{ry}, \quad M_y = j \frac{k^e}{u_0} H_{rx} + \frac{\chi^e}{u_0} H_{ry}, \quad (2)$$

where  $\chi^e$  and  $k^e$  are the components of the tensor of "external" susceptibility of ferrite. In using Eq. (1) instead of Eq. (2) formulae of P.C. Fletcher and R.G. Bell (Ref. 2: Ferromagnetic resonance modes in spheres, J. Appl. Phys. 1959, 30, 687) should rather be used, relating the magnetization and the field for a given type of oscillation in the ferrite. The resonance curve of the system ferrite resonator in terms of the magnetic field values may differ considerably from that of ferrite in free space. Its width  $2\delta H$  depends not only on magnetic losses of ferrite, but also on other parameters of the system. This fact leads to the need for working at frequencies remote from the resonant frequency of the resonator. The evaluation of coupled systems of the ferrite resonator can be also carried out using the method of A.L. Mikaeiyan (Ref. 3: Nelineynaya teoriya ferritovykh generatorov, Radiotekhnika Card 5/7).

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D262/D306

Effects of coupling ...

i elektronika, 1960, 5, 1, 46). Besides the interaction between the sample and resonator, the interaction between two (or more) ferrite samples is possible, which can be determined again experimentally. The phenomenon observed in the present experiment can be used for setting up various microwave systems. It may be seen that the dependence of frequency on magnetizing field is most pronounced close to the region where the frequency of ferromagnetic resonance is near that of the resonator itself, so that a considerable tuning range is possible with only small changes of the magnetizing field. A coupling resonator ferrite system can also be used as a tuned filter, with the frequency band depending on the number of ferrite samples within the resonator. Such a system can also be used as a fast acting switch. The authors acknowledge the help of A.A. Pistol'kors. There are 7 figures and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: P.C. Fletcher, R.O. Bell, Ferromagnetic resonance nodes in spheres, J. Appl. Phys., 1959, 30, 5, 687.

SUBMITTED: July 26, 1960

Card 6/6

S/109/62/007/004/005/016  
D230/D302

9,257/

AUTHORS: Mikaelyan, A.L., and Anton'yants, V.Ya.

TITLE: Mutual coupling phenomena in a system of magnetized ferrite samples

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 4, 1962, 623 - 630

TEXT: This is a discussion of the coupling effect and of the characteristics of ferrite samples under the action of an external microwave field and in a radiated field from the neighboring samples. To determine the resonant frequencies of the coupled system two cases of the coupling effect were examined, in which the arrangement consisted of two samples each having the form of an ellipsoid of rotation and placed in free space: 1) The samples lie in plane  $z = 0$ , perpendicular to the direction of the constant magnetic field. In this plane all positions of the second sample become correspondingly the same, hence this sample is placed at points  $x = a, y = 0$ . Formulae for the resonant frequencies are deduced for samples of finite volumes and finite separations. The losses in the system can

Card 1/2

L 5892h=f<sup>4</sup>  $\frac{W_A(r)}{PND} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)} \frac{E_{AO}(r)}{E_{AO}(r)}$

AUTHOR: (Name), J. L. Antikynate, Y. De, ...

ABSTRACT: ...

TABLE I: ...

ABSTRACT: An expression was derived for the peak ...

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Length: 0.001 m by length, 12 cm) was approximately 10 grams. For a pumping  
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L 37665-66 EWT(m)/EWT(e) WJ/GD

ACC NR: AT6022263

SOURCE CODE: UR/0000/66/000/000/0004/0008

AUTHOR: Anton'yants, V. Ya; Dolgiy, V. A.

38  
B+1

ORG: none

TITLE: Calculation and experimental studies of the optimal operation of a Q-switched ruby laser

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchonnaya Dnyu radio. 22d, 1966. Sektsiya kvantovoy elektroniki. Doklady. Moscow, 1966, 4-8

TOPIC TAGS: solid state laser, ruby laser, Q switching, passive switching

ABSTRACT: Optimal conditions are calculated on the basis of the theoretical considerations set forth by A. L. Mikaelyan et al. (Rad. i elektronika, no. 7, 1965). Ruby parameters:  $n_0 = 0.4$  per cm;  $\beta = 0.03$  per cm; phthalocyanine modulator. Maximum-efficiency plots of mirror transmissivity  $1 - r$ , passive modulator transmissivity  $\tau$ , and energy yield  $u_2$  vs. ruby length are shown. As the manufactured ruby sizes are standardized, another set of plots is supplied to enable one to select the near-optimal ruby size; experimental plots (for ruby length 12 cm) of  $1 - r$ ,  $\tau$ , and efficiency vs.  $u_2$  are shown. In designing a laser, first, the optimal operating conditions for a specified radiation energy should be determined, and then the pulse duration can be selected by joggling the resonator length. Orig. art. has: 4 figures and 1 formula. [03]

SUB CODE: 20 / SUBM DATE: 11Apr66

L 44360-66 EWT 11/FSS-2 (D)

ACC NR: AT6022272

SOURCE CODE: UR/0000/66/000/000/0033/0040

AUTHOR: Pirshin, I. V.; Koblava, M. M.; Khlystov, V. I.; Anton'yants, Ye. V.

ORG: none

TITLE: Investigation and development of optical modulators<sub>g</sub>

70  
B41

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya kvantovoy e elektroniki. Doklady. Moscow, 1966, 33-40

TOPIC TAGS: optic modulator, interferometer, laser communication, laser

ABSTRACT: Since existing optical modulators have electrooptical crystals that require high voltages, a device using a symmetrical Michaelson interferometer with double refracting diagonally cut crystals in the arms was developed. The latter are controlled by a field at right angles to the direction of propagation. The power required to control the modulator can be lowered by increasing the length of the crystal and decreasing its cross section. The power required by the modulator depends on the operating modulation frequency band; when a subcarrier is used, the voltage can be fed to the modulator by a resonance circuit. Curves are plotted for values of power as a function of the modulation band. Optimum adjustments of mirror position are given for maximum uniformity of light intensity over the beam cross section. The arms of the modulator must be identical and temperature must be controlled for best operation since the

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ACC NR: AT6022272

modulator is rather sensitive to temperature variations. Details on the thermal expansion of various parts and materials are given and the effects of expansion on modulator operation are described. Invar is suggested as the best structural material. The maximum modulation frequency is 500 to 700 Mc. A model of the device, 15 x 15 x 6 cm and weighing 3.6 kg, was constructed of superinvar. Details of the optics are given, including the technique for adjusting the mirrors. The modulator was tested between 0 and 100 Mc with a control voltage of 150 v. The model was tested in an experimental transmission of a television picture with the aid of a laser beam. Calculations were made of waveguide size for given wavelengths and the power required for the crystals in the waveguide. The tests of the modulator based on a Michaelson interferometer proved its applicability for high and superhigh frequencies. Orig. art. has: 5 figures.

SUB CODE: 20,17/      SUBM DATE: 11Apr66/      ORIG REF: 001

Card 2/2    hs

ANTON'YEV, A. A.

Exfoliative syphilitic roseola. Vest. vener., Moskva no.4:42-43  
July-Aug 1951. (CML 21:1)

1. Department Physician. 2. Of the Department of Skin and  
Venereal Diseases, First Moscow Order of Lenin Medical  
Institute (Director -- Prof. V. A. Rakhmanov).

ANTON'YEV, A. A.

Data on the problem of recurrent syphilis. Vest. ven. i derm. No. 2, 1952.

SO: MIRA. August 1952.

APPROVED, A. A.

Skin - Diseases

Clinical aspects and histopathology of follicular and perifollicular hyperkeratosis which infiltrates into the skin. Vest. ven. i derm. No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress  
June 1953. UNCL.

ANTON'YEVA, A. A.

Jul/Aug 53

USSR/Medicine - Embikhin

"Results of Treatment With Embikhin of Patients Afflicted With Mycosis Fungoides," A. P. Nikitina and A. A. Anton'yeva, Dermatological Clinic, Central Dermato-Venereological Inst, Min Health, USSR

Vest Vener 1 Derm, No 4, pp 54-56

Results of attempts to treat patients who were afflicted with mycosis fungoides by intravenous injection of 10-20cc of a physiological soln of embikhin twice a week for a period of 5-10 weeks, indicated the effectiveness of this drug. An

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initial dose of 2-3 mg of embikhin is recommended. If that dose is well tolerated, it should be increased by 1 mg up to the max dose of 5-6 mg. After 10-20 injections, itching disappeared in three patients; nodes completely resolved in two patients. Due to the fact that some nodes still remained in 2 cases, after a course of treatment with embikhin, roentgenotherapy was subsequently resorted to with good results.

27132

ANTON'YEV, A.A.

ANTON'YEV, A.A.--"Evaluation of Certain Organizational Measures for Combating Dermatomycosis."\*(Dissertation for Degree in Science and Engineering Defended at USSR Higher Educational Institutions.) Republic Sci Res Dermatological-Venerol Inst of the Min of Heal Protection RSFSR, Rostov-on Don State Medical Inst, Rostov-on-Don State Medical Inst, Rostov-on-Don, 1955

SO: Knizhnaya Letopis' No. 25 16 Jun 55

\* For Degree of Candidate in Medical Sciences

ANTON'YEV, A.A., assistant

New qualitative indexes in the control of dermatomycosis. Vest.ven.  
i derm. 30 no.2:18-21 Mr-Apr '56. (MLRA 9:7)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav.-prof. N.A. Torusev) Rostovskogo-na-Donu Gosudarstvennogo meditsinskogo instituta.  
(SKIN, dis.  
fungus dis., prev. & control)  
(FUNGUS DISEASES  
skin, prev. and control)

TORSUYEV, N.; ANTON'YEV, A.

"Communicable diseases of man." Reviewed by N. Torsuev, A. Anton'ev.  
Vest.derm. i ven. 31 no.2:49-50 Mr-Apr '57. (MIRA 12:12)  
(COMMUNICABLE DISEASES)



ANTON'YEV, Anatoliy Anatol'yevich

[Control of trichophyton, microsporid, and favus] Organizatsiia  
bor'by s trikhofitiei, mikrosporiei i favusom. Moskva, Medgiz,  
1958. 95 p. (MIRA 12:4)

(MEDICAL MYCOLOGY)

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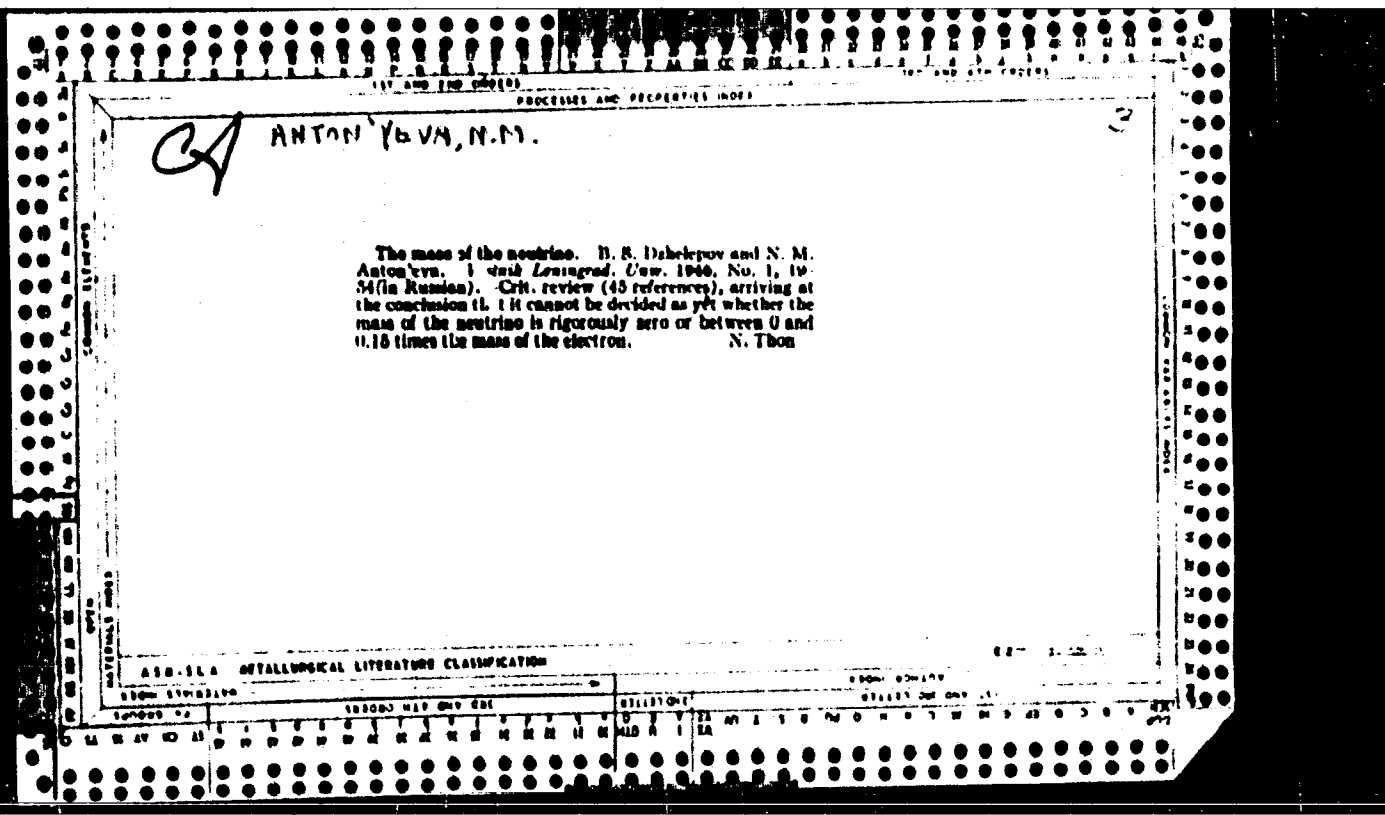
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PROCESSED AND PRESERVED BY THE NATIONAL ARCHIVES

800  $\beta^+$  and  $\beta^-$  Decay of  $\text{Br}^{80}$ . B. S. Dzholepov, N. M. Ansh'eva, and S. A. Shestopalova. Doklady Akad. Nauk, S. S. S. R., 84, 309-12(1949)(in Russian).

A magnetic spectrometer is described in which the electron's trajectory is a spiral, the focusing taking place twice, after  $1/3$  and  $2/3$  loops, at which points two counters, working in coincidence, are placed one below the other. The counters' walls are of  $20 \mu$  colliphane; the whole instrument has a collimated envelope, the pressure being  $9 \text{ cm Hg}$  within the envelope and the counters. Using this instrument, the  $\beta^+ - \beta^-$  decay of  $\text{Br}^{80}$  was investigated. The positron-spectrum end point is  $1.0 \pm 0.1 \text{ Mev}$ , that of the electron spectrum agrees with the values found by other workers (Baell, Phys. Rev. 52, 1007(1937)); the ratio  $\beta^+/\beta^- = (1.0 \pm 0.2)\%$ . The half-life period of the  $\beta^+$  decay is  $6.0 \pm 0.5 \text{ hr}$ . Although this value is close to the period of  $\text{Br}^{80}$  (6.4 hr), it is probable that the positrons are connected, as are the electrons, with the ground state ( $\tau = 10 \text{ min}$ ) of  $\text{Br}^{80}$ , rather than with the metastable level  $\tau = 4.4 \text{ hr}$ . The probability of a K capture was calculated by using the formulas of Komptanski (Nouv. Moudrs Phys., 15, 500(1944)). The following scheme of the decay of  $\text{Br}^{80}$  is obtained: a  $\gamma$  transition (6.4 hr), then (1) 1.2% K capture, (2) 1%  $\beta^+$  decay, (1.0 Mev), both (1) and (2) resulting in  $\text{Se}^{80}$ , or (3) 97.8%  $\beta^-$  decay (10 min), (2.3 Mev), resulting in  $\text{Kr}^{80}$ .

Sci Res Phys Inst  
Leningrad State U.

ADD-363 METALLURGICAL LITERATURE CLASSIFICATION

Radiation of gold<sup>198</sup>, holmium<sup>166</sup>, and lutetium<sup>175</sup> N. M. Molodtsova, A. A. Bushikov, B. N. Dzhukov, and A. V. Zolotarev (A. A. Zhdanov State Univ. Leningrad) *Dokl. Akad. Nauk S.S.S.R., Ser. Phys.* 14, 309-310 (1957). - All measurements were made with the heltron (cf. preceding abstr.). The continuous  $\beta$ -spectrum of Au<sup>198</sup> corresponds exactly to the Fermi formula for allowed transitions, the limit is  $W_{\infty} = 10$  kv. Measurement of the conversion lines of *K*, *L*, and *M* electrons from 411.2 e. kv.  $\gamma$ -rays gave for  $N_K/N_L$ , 2.6, 1.3, and 0.3, resp., corresponding to quadrupole radiation. From these measurements the transition from Au<sup>198</sup> to Pt<sup>198</sup> and Hg<sup>198</sup> was indicated. The  $\beta$ -spectrum of Ho<sup>166</sup> is continuous with a limit at about 1840 e. kv. and an intense group of soft radiation below 100 e. kv. The analysis of the continuous spectrum indicates its complex character and the presence of forbidden transitions. A  $\gamma$ -line of 81 e. kv. has a weak *K* but strong *L*, *M* conversion.  $\gamma$ -Rays of 1300 e. kv. were also detected and a scheme of transition to Er<sup>166</sup> was worked out. The continuous spectrum of Lu<sup>175</sup> has a limit at 475 e. kv. and 4 conversion lines. The transitions are of the forbidden type. The lines of conversion electrons correspond to  $\gamma$ -rays of 112 e. kv. and 200 e. kv. The transition scheme to Hf<sup>175</sup> is indicated. A table of calcul. functions  $F(K, L)$  for the elements is given. N. Pakover



ANTON'YEVNA, N. M.

158T80

USSR/Nuclear Physics - Beta-Spectrum  
Isotope Jan 50

"Beta-Spectrum of Ho<sup>166</sup>," N. M. Anton'yeva, A. A. Bashilov, B. S. Dzhelipov, A. V. Zolotavin, Phys Inst, Leningrad State U imeni A. A. Zhdanov, 4 pp

"Dok Ak Nauk SSSR" Vol LXX, No 3

Used magnetic spectrometer with improved focusing to study beta-spectrum of Ho<sup>166</sup>. Thin layer of Ho<sub>2</sub>O<sub>3</sub>, irradiated by neutrons and deposited on strip of cigarette paper, was electron source. Electron radiation of Ho<sup>166</sup> consists of continuous beta-spectrum with limit of about 1,840 kev and intense group of slow electrons less than 100 kev. Submitted 21 Sep 49 by Acad P. I. Lukirskiy. 158T80

ANTON'YEVA, N. N.

USSR/Nuclear Physics - Radium  
Gamma Rays

11 Feb 50

"Structure of the Gamma-Lines of RaC," A. A. Bashilov, N. M. Anton'yeva, A. V. Zolotavin,  
Phys Inst, Leningrad State U imeni A. A. Zhdanov

"Dok Ak Nauk SSSR" Vol LXX, No 5, pp 793-796

Latyshev and co-workers' previous studies of beta-spectrum of RaC had established that gamma-ray lines of conversion electrons were considerably wider than had been expected from instrumental data and that there were a number of very narrow peaks, in some cases 6 kev apart and in others 2.5 kev apart, on base line. This was interpreted as a fine structure of gamma-lines by Latyshev and his co-workers. In view of fundamental importance of this hypothesis, authors herein studied structure of these lines under conditions which eliminated distortion of lines by walls of glass ampoule and with a betaspectrometer having improved focusing. Fine structure in form observed by Latyshev and co-workers was not discovered. Submitted 13 Dec 49 by Acad S. I. Vavilov.

PA 165T47

ANTON'YEV, N.M.  
CA

3A

The  $\beta$  spectrum of silver<sup>110</sup> N. M. Anton'eva, A. A. Bashkin, and B. S. Dzhelezov (A. A. Zhukov State Univ., Leningrad) *Doklady Akad. Nauk SSSR* 77, 41 (1981)

The  $\beta$  spectrum of Ag<sup>110</sup> was studied by means of a Kelson (CA 45, 484g). Three sources used to study the different parts of the spectrum had the same width (0.5 mm) but each had a different surface of 0.6, 6, and 34 mg/cm<sup>2</sup>. The registration of electrons was carried out by means of a single counter, as well as by the method of coincidence. The spectrum consists of many components which differ greatly in rigidity and intensity. In the background of these spectra, 25 conversion lines differing greatly in height were measured. The parts of the spectra which are of the greatest interest are presented graphically. A table of 16  $\beta$  lines is presented. Of these 16 have already appeared in the literature. The 4 new lines have energies of  $E_{\beta} = 667, 618, 740,$  and 1480 eV. J. R. Teach

ANTONINA, N. M.

USSR/Nuclear Physics - Beta- May/June 52  
Spectrum of Ir

"The Beta-Spectrum of Ir<sup>192</sup>," A. A. Bashilov,  
N. M. Anton'yeva, B. S. Dzheleпов

"Iz Ak Nauk SSSR, Ser Fiz" Vol 16, No 3, pp  
264-305

The exp'tl data in this report was heard  
14 Feb 51 in the Acad Sci USSR. Discusses the  
general knowledge concerning the radioactive  
isotope Ir<sup>192</sup>; the spectrometer used and the  
conditions governing the measurements; general

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appearance of the beta-spectrum of Ir<sup>192</sup>;  
comparison of the results of the measurements  
of the beta-spectrum of Ir<sup>192</sup> with the data  
of various authors mostly foreign; the spectrum  
of the electrons of internal conversion of Ir<sup>192</sup>,  
and their conversion lines and energy lines;  
the spectrum of electrons of conversion of  
gamma-rays of Ir<sup>192</sup> according various authors;  
the gamma-radiation of Ir<sup>192</sup> according to the  
data of various authors; positrons and the  
capture of atomic electrons; the scheme describ-  
ing the decay of Ir<sup>192</sup>. Acknowledges the  
assistance of Ye. G. Kuznetsov.

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