KUZNETSOV, B. F.

The 2 STSN-6 sugar-beet planter for even seeding. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. no.12:53-55 '62. (MIRA 16:1)
(Planters(Agricultural machinery))

SLUTSKER, Ya.I., inzh.; KUZNETSOV, B.F., insh.

Precision beet-seed planter. Mashinostroenie no.3:96-98 My-Je '63. (MIRA 16:7)

1. Zavod "Krasnaya zvezda", g. Korovograd (for Slutsker).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya (for Kuznetsov).
(Planters(Agricultural machinery))

KUZNETSOV, B. G., Cand Med Sci -- (diss) "Concerning the Anatomy of the Intraorganic Ramifications of the Blood Vessels and of the Hepatic Bile Ducts in Man." Gorky, 1957. 15 pp, (Gork State Med Inst im S. M. Kirov), 200 copies. (KL, 7-58, 112)

USSR / Human and Animal Morphology (Normal and Pathological). S
Circulatory System. Blood Vessels.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2952

Author : Kuznetsov, B. G.
Inst : Gor'kiy Medical Institute
Title : Anatomy of Intra-Organic Branchings of Afferent Hepatic Blood Vessels and Their Relationship with Bile Ducts and Hepatic Veins

Orig Pub : Uch. zap. Gor'kovsk. med. in-ta, 1957, vyp 1, 121-135

Abstract : The anatomy of intrahepatic vessels was studied on 81 specimens of liver by methods of corrosion and roentgenovasography. The porta hepatis is represented by the transverse sulcus together with the posterior portion of the fossa venae umbilicalis. The shape of the porta hepatis may be the open type (54.4%), closed

Card 1/4

27

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120002-7

USSR / Human and Animal Morphology (Normal and Pathological). S
Circulatory System. Blood Vessels.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2952

type (14%) or transitional type (31.6%). The division of the portal vein into main branches may also be of three types which reflects the various variants of the joining of the umbilical and the portal veins of the fetus; in the embryonal form the portal vein and the terminal branch of the umbilical vein are joined by an anastomosis, in the definitive form both veins join to form a single trunk over the entire length, and in the transitional form the veins join for a small distance only. The branching of the hepatic artery may be of seven types, depending on the number of branches and the amount of afferent vessels; in 1/3 of the cases, the hepatic artery anastomoses with additional arteries at the level of the hepato-duodenal ligament. The

Card 2/4

KUZNETSOV, R.G.

KARAYEV, A.I.; AYVAZYAN, L.A.; KUZNETSOV, R.G.

Effect of stimulating pulmonary receptors on the glycogen, sugar, and lactic acid content of the blood. Uch. zap. AGU no.6:63-71 '57. (MIRA 11:1)

(LUNGS--INNERVATION) (BLOOD--ANALYSIS AND CHEMISTRY)

KUZNETSOV,B.G., Cand Med Sci--(diss) "On the anatomy of the intraorgan ramifications of blood vessels and biliary ducts of the liver in humans."

Ivanovo, 1958. 16 pp (Ivanovo State Med Inst), 200 copies (KL,47-58,135)

KARAYEV, A.I.; KUZNETSOV, B.G.

Effect of stimulating the receptors of salivary glands on the sugar and lactic acid content of blood [in Azerbaijani with summary in Russian]. Dokl.AN Azerb.SSR 14 no.11:905-916 '58. (MIRA 11:12)
(SALIVARY GLANDS--INNERVATION) (BLOOD--ANALYSIS AND CHEMISTRY)

KARAYEV, A.I.; GASANOV, G.I.; KUZNETSOV, B.G.

Effect of radioactive phosphorus (P^{32}) on the course and nature of aseptic inflammation. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.5:119-124 '60. (MIRA 14:9)
(PHOSPHORUS--ISOTOPES) (INFLAMMATION)

KUZNETSOV, B.G.

Effect of the removal and denervation of the pancreas on interoceptive reflexes (affecting) the sugar content of the blood.. Izv.AN Azerb.SSR.Ser.biol.i med.nauk. no.5:93-100 '62. (MIRA 15:9)
(PANCREAS--INNERVATION) (BLOOD SUGAR)

KUZNETSOV, B.G.

Effector role of pancreas in interoceptive metabolic reflexes.
Izv.AN Azerb.SSR.Ser.biol.i med.nauk no.6:97-100 '62.
(MIRA 15:12)

(REFLEXES) (PANCREAS)

KUZNETSOV, B.G.

Effect of previous glycemic reactions on interoceptive metabolic reflexes. Trudy Sekt.fiziol.AN Azerb.SSR 7:115-119 '63.
(MIRA 17:10)

YESEPKINA, N.A.; PETRUN'KIN, V.Yu.; KUZNETSOV, B.G.; UMETSKIY, V.N.; VASIL'YEV, B.A.

Space harmonics of the antenna pattern of the large Pulkovo radio telescope. Izv. GAO 23 no.3:116-121 '64.

(MIRA 17:11)

PETRUN'KIN, V.Yu.; YESEPKINA, N.A.; KUZNETSOVA, G.V.; KUZNETSOV, B.G.

Effect of rotation of the principal cross sections of the directivity diagram of an antenna with a variable-profile reflector. Izv. GAO 23 no.3:160-161 '64.

(MIRA 17:11)

112-57-7-14566

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, p 118 (USSR)

AUTHOR: Kuznetsov, B. G.

TITLE: Automatic Regulation of Diesel-Locomotive Power
(Avtomaticheskoye regulirovaniye moshchnosti teplovozov)

PERIODICAL: V sb.: Materialy nauch.-tekhn. soveshchaniya po tyagovomu elektrooborudovaniyu (Collection: Materials of the Scientific and Engineer Conference on Traction Electric Equipment), November, 1953, Riga, pp 88-93

ABSTRACT: A version of the automatic regulating system for the Diese on the second section of a TE-3 locomotive is described. (See Ref zhurnal, Elektrotekhnika, 1957, Nr 3504).

Card 1/1

Kuznetsov, B.G.

VASIL'YEV, V.A., inzhener.; KUZNETSOV, B.G., inzhener.

Electric equipment for the TE-3 diesel locomotive. Vest. elektroprom 28 no.1:21-29 Ja '57. (MLRA 10:4)

1. Khar'kovskiy elektroturbinnyy zavod, Ministerstva elektrotekhnicheskoy promyshlennosti.
(Diesel locomotives)

KUZNETSOV, Boris Grigor'yevich, inzh.; MITIN, Vladimir Ivanovich, inzh.; DENISOVA, T.B., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Electric equipment of locomotives; operation and repair] Teplovoznaia elektroapparatura; ekspluatatsiia i remont. Moskva, Gos. transp. zheldor. izd-vo, 1958. 150 p. (MIRA 11:7)
(Locomotives—Maintenance and repair)

STEPANOV, Aleksandr Dmitriyevich; EZRIN, Grigoriy Semenovich; VERKHOVLYAD, Vasiliy Yefremovich; KUZNETSOV, Boris Georgiyevich; TRAKHTMAN, L.M., kand.tekhn.nauk, retsenzent; KAMENETSKIY, B.G., kand.tekhn. nauk, red.; NIKITIN, A.G., red.izd-va; MODEL', B.I., tekhn.red.

[Electric drive of diesel locomotives] Elektricheskaia peredacha teplovozov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1959. 292 p. (MIRA 12:8)
(Diesel locomotives) (Electric driving)

PHASE I BOOK EXPLOITATION SOV/5293

Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvoditel'nykh sil Khar'kovskogo ekonomicheskogo administrativnogo rayona, 1958.

Voprosy mashinostroyeniya; trudy konferentsii... (Problems of Machine Building; Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Khar'kov Economic Administrative Region) no. 3. Kiyev, Izd-vo AN UkrSSR, 1960. 182 p. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Sovet po izucheniyu proizvoditel'nykh sil UkrSSR.

Editorial Board: Resp. Ed.: A.A. Vasilenko, Academician of the Academy of Sciences UkrSSR; A.A. Gorshkov, Corresponding Member, Academy of Sciences UkrSSR; I.M. Postnikov, Doctor of Technical Sciences; S.M. Kutsenko; A.I. Adamenko, Candidate of Technical Sciences; G.M. Davydov, Candidate of Economical Sciences; Ed. of of Publishing House: S.D. Lepkiy; Tech. Ed.: R.A. Buniy.

PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, sovnarkhoz workers, and planning organizations.

Card 1/7

COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; the development of new accessories for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into founding and die forging. No personalities are mentionned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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·KUZNETSOV, B.G.

PHASE I BOOK EXPLOITATION SOV/5518

Gakkel', Yekaterina Yakovlevna, Doctor of Technical Sciences, Vladimir Arsen'yevich Kozhevnikov, Engineer, Boris Georgiyevich Kuznetsov, Engineer, Andrey Vladimirovich Lapin, Candidate of Technical Sciences, Mikhail Andreyevich Nikulin, Candidate of Technical Sciences, and Grigoriy Semenovich Ezrin, Engineer.

Elektricheskiye mashiny i elektrooborudovaniye teplovozov (Electric Machines and the Electrical Equipment of Diesel-Electric Locomotives) Moscow, Transzheldorizdat, 1960. 218 p. 10,000 copies printed.

Ed. (Title page): Ye. Ya. Gakkel'; Ed.: N. M. Khutoryanskiy, Candidate of Technical Sciences; Tech. Ed.: Ye. N. Bobrova.

PURPOSE: This textbook was approved in 1958 by GUUZ (Glavnoye upravleniye uchebnymi zavedeniyami - Main Administration of Schools) of the Ministry of Railroads, for use by students in institutes of railroad transportation.

COVERAGE: The book examines the purpose, arrangement, and operation of the elements of electrical transmission in Diesel-electric (D-E)

Card 1/8

locomotives, and in auxiliary machinery and apparatus. Information on the structure of electrical machines and apparatus and examples of their design are given. The circuits of modern Soviet D-E locomotives including the new TE10 and TE50 locomotives, are described. The circuit of the TE-3 lot-produced D-E locomotive is examined in detailed. Primary materials included in the book come from the texts of courses given by teachers of the Leningradskiy institut inzhenerov zheleznodorozhnogo transporta (Leningrad Institute of Railroad Transportation Engineers), and from the Khar'kovskiy zavod"Elektrotyazhmash "(Khar'kov Heavy Electrical Machinery Plant). Chs.I and VII were written by Ye. Ya. Gakkel'; Ch.II by M. A. Nikulin and Ye. Ya. Gakkel'; Ch.III by A. V. Lapin; Ch.IV by G. S. Ezrin (sec. 7 by V. V. Strekopytov, Engineer); Ch.V by B. G. Kuznetsov (secs. 9 and 10 by Ye. Ya. Gakkel'); and Ch.VI by V. A. Kozhevnikov. The authors thank A. Ye. Alekseyev, Corresponding Member, AS USSR, K. I. Rudaya, Candidate of Technical Sciences, and A. D. Stepanov, Doctor of Technical Sciences, for their advice, and Ye. F. Kholmovskaya and I. F. Pushkarev, Engineers, and A. N. Korotkova, Laboratory Assistant, who helped with the manuscript. There are 29 references, all Soviet.

KUZNETSOV, B.G., inzh.; MITIN, V.I., inzh.; NOVOSEL'SKIY, B.S., inzh., retsenzent; DENISOVA, T.V., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Electrical equipment of diesel locomotives] Teplovoznaia elektricheskaia apparatura. Izd.2., dop. Moskva, "Transport" 1964. 190 p. (MIRA 17:2)

KUZNETSOV, Boris Grigor'evich, 1903

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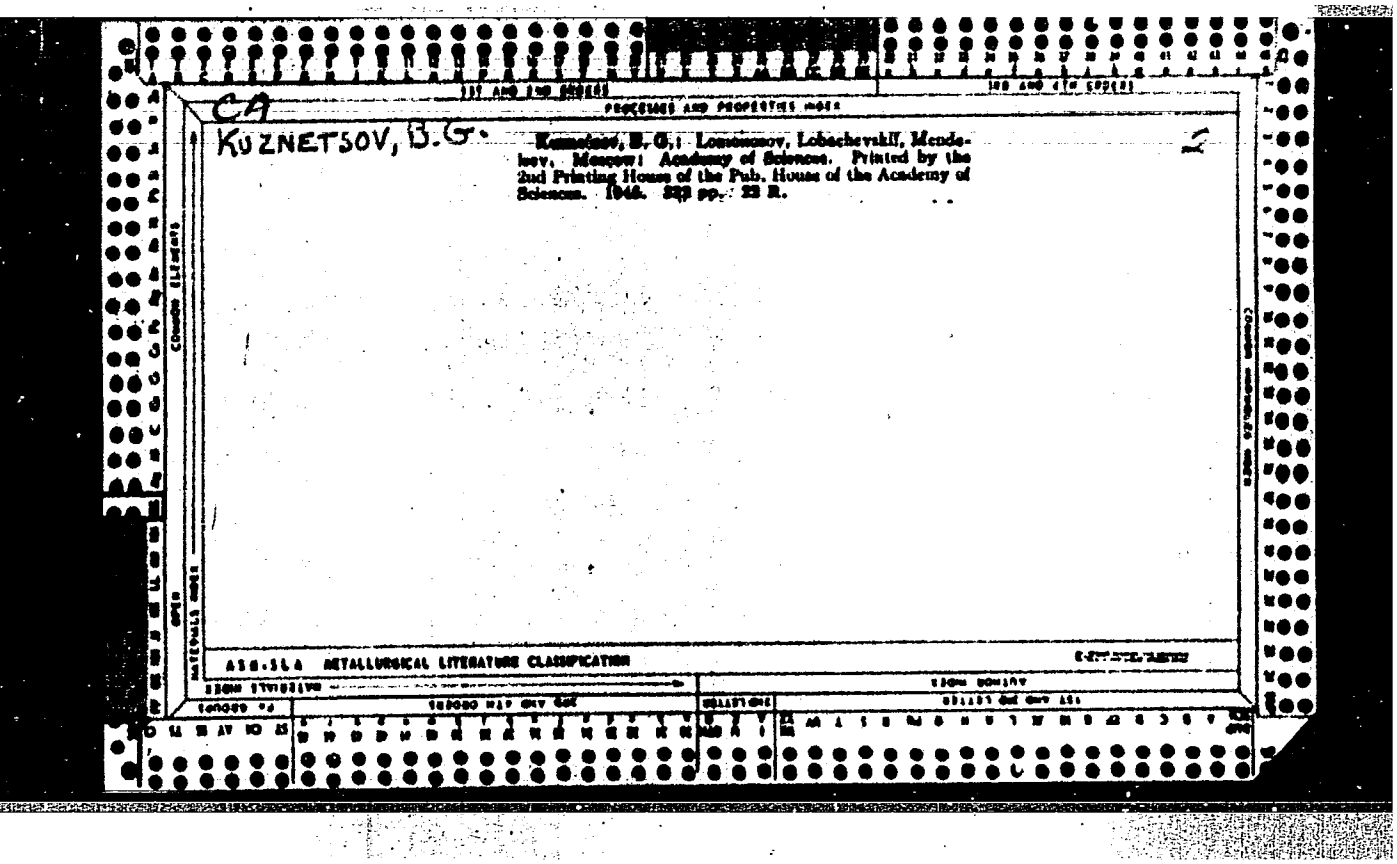
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Kuznetsov, B. G.; Lomonosov, Lobachevskii, Mendeleev. Moscow: Academy of Sciences. Printed by the 2nd Printing House of the Pub. House of the Academy of Sciences. 1948. 323 pp.: 23 R.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KUZNETSOV, B. G.

"The Sun, Life and Chlorophyll (25th Anniversary of the Death of K. A. Timiriazev) (p. 137) by Komarov, V. L., Maksimiov, N. A. and Kuznetsov, B. G. (Moscow)

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XIX, No. 2, 1945.

KUZNETSOV, Boris Grigor'evich, 1903

KUZNETSOV, Boris Grigor'evich, 1903 The patriotism of Russian naturalists and their contribution to science. Moskva, 1949. 228 p. (Istoricheskaia seriia, No. 37) (50-29813)

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Kuznetsov, B. G. - "The phasic development theory and some general problems in the history of natural science," Izvestiya Akad. nauk SSR, History and philosophy series, 1949, No. 1, p. 52-69

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KUZNETSOV, B. G.

23926 KUZNETSOV, B. G. Oprioritete Lomonosova V Otkrytii Zakona Sokhraneniya Energii. Izvestiya Akad. Nauk SSSR Seriya Istorii I Filosofii, 1949, No. 3, S. 201-08.

SO: Letopis, No. 32, 1949.

KUZNETSOV, B. G.

"I. P. Pavlov and the Effectiveness of the Soviet System," Byul. Mosk. Obshch. Ispytat. Prirody, Otdel Biol. (Bulletin of the Moscow Society of Naturalists, Biological Section), 54, No. 5, 1949.

KUZNETSOV, BORIS GRIGOREVICH.

(What the Russian natural scientists contributed to science. Tr. from the Russian.)

Praha, Czechoslovakia, 1951.

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), LC, Vol. 8, No. 7, July 1959, Unclas.

KUZNETSOV, Boris Grigor'evich, 1903

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KUZNETSOV, Boris Grigor'evich, 1903-

Frederic Joliot-Curie, scientist and fighter for peace Moskva, Gos. izd. kul'turno-prosvetitel'noi lit-ry, 1952. 78 p. (52-67845)

QC16.J65K8

KUZNETSOV, B.G.

S.I. Vavilov as a science historian. Trudy Inst.ist.est. 4 :5-17 '52.
(MLRA 6:7)
(Vavilov, Sergei Ivanovich, 1891-)

KUZNETSOV, B.G.

The problem of the earth's real movement in Galilei's "Dialogue."
Trudy Inst. ist. est, i tekh. no.1:249-266 '54. (MLRA 8:9)
(Galilei, Galileo, 1564-1642)

KUZNETSOV, B.G.; FIGUROVSKIY, N.A., professor, redaktor; VESELOVSKIY, I.N., redaktor; ZEMLYAKOVA, T.O., tekhnicheskiy redaktor.

[The evolution of scientific concepts on the universe in 17th to 18th century physics] Razvitie nauchnoi kartiny mira v fizike XVII-XVIII vv. Moskva, Izd-vo Akademii nauk SSSR. 1955. 343 p. (MLRA 8:12)

(Physics)

KUZNETSOV, B. G.

"Maxwell's Electro-dynamics" from Works of the Historical Inst. on Natural Sciences and Engineering, Vol. 5, p. 136, 1955.

ZUBOV, Vasiliy Pavlovich; KUZNETSOV, B.G., otvetstvennyy redaktor; PEREL', Yu.G., redaktor izdatel'stva; ASTAF'YEVA, G.A., tekhnicheskiy redaktor

[Historiography of the natural sciences in Russia; from the 18th to the middle of the 19th century] Istoriografiia estestvennykh nauk v Rossii; XVIII v. - pervaia polovina XIX v. Moskva, Izd-vo Akademii nauk SSSR, 1956. 575 p. (MLRA 9:10)
(Science--History)

KUZNETSOV, Boris Grigor'yevich; KOROVIN, G.M., redaktor; MURASHOVA, N.Ya., tekhnicheskiy redaktor

[Lomonosov's creative career] Tvorcheskiy put' Lomonosova. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 380 p. (MLRA 10:3)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

KUZNETSOV, B.G.

KOMAROV, V.L., akademik; pod nablyudeniyem akademika N.A.Maksimova, B.K.Shishkina, S.Yu.Lipshitsa, A.G.Chernova; KUZNETSOV, B.G., red.; ENCHMEN, E.S., red.; AUZAN, N.P., tekhn.red.

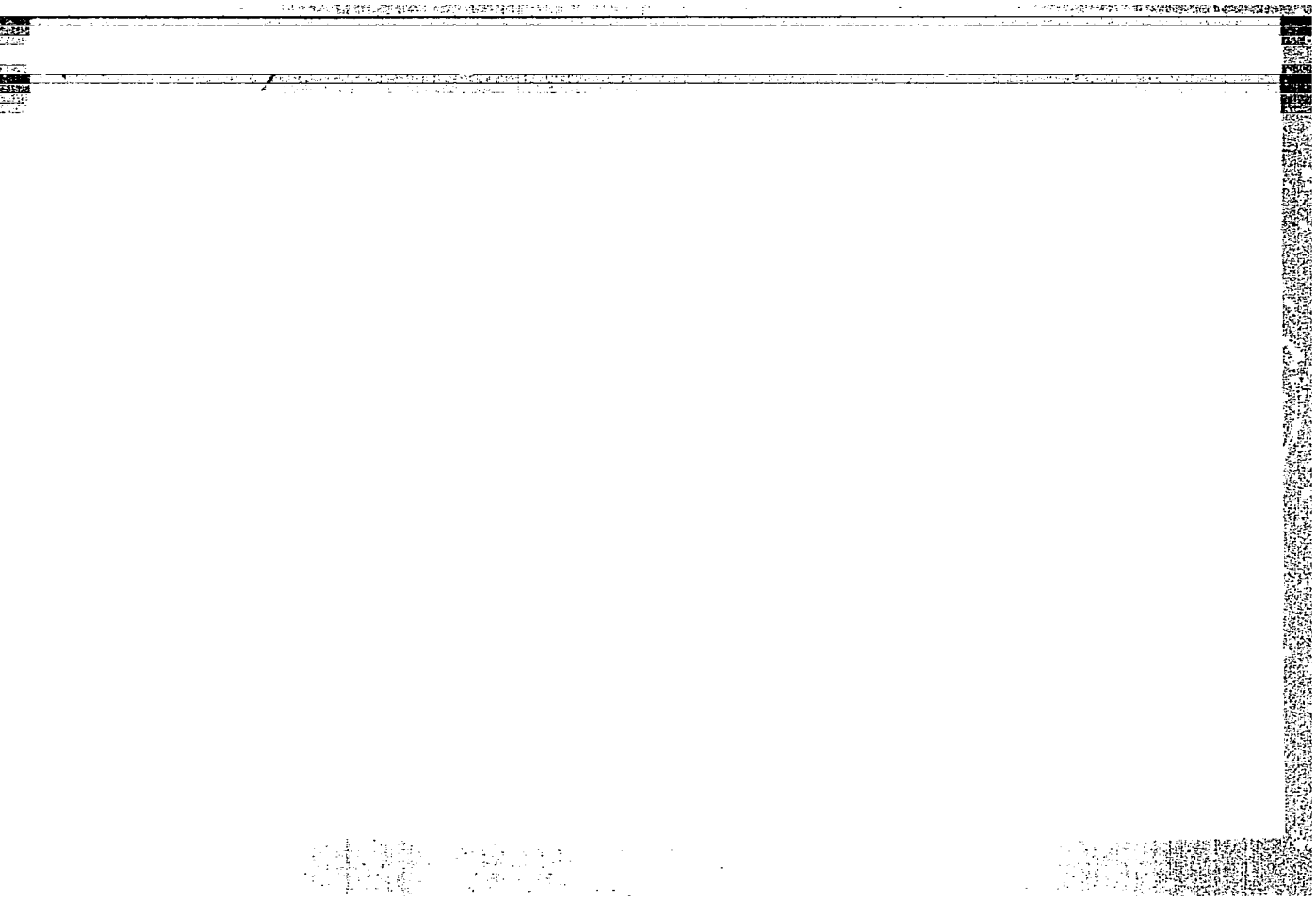
[Selected works] Izbrannye sochineniia. Moskva, Izd-vo Akad. nauk SSSR. Vol.11. 1948. 707 p. (MIRA 11:1)

1. Chlen-korrespondent AN SSSR (for Shishkin).
(Science)

KUZNETSOV, BORIS GRIGOR'YEVICH

KUZNETSOV, Boris Grigor'yevich, prof.; LARIN, S.M., red.; KADER, Ya.M., red.izd-va; MEDNIKOVA, A.M., tekhn.red.

Dmitrii Ivanovich Mendeleev. Moskva, Voen.izd-vo M-va obor. SSSR, 1957. 69 p. (MIRA 11:2)
(Mendeleev, Dmitrii Ivanovich, 1834-1907)



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Kuznetsov B. G.

GRIGOR'YAN, A.T.; KUZNETSOV, B.G.

"Selected works on natural sciences" by Leonardo da Vinci. Vop. ist. est. i tekh. no.3:247-251 '57. (MIRA 11:1)
(Vinci, da, Leonardo, 1452-1519)

KUZNETSOV, B.G.

AUTHOR: None given 26-10-39/44

TITLE: A Brief Review of New Books (Korotko o novykh knigakh)

PERIODICAL: Priroda, 1957, No 10, pp 122-123 (USSR)

ABSTRACT: "Nuclear Processes in the Stars", a collection of lectures given at Liege in September 1953. No author.
I.I. Revizin, "Plastic Materials in Medicine"
V. Glazer, "Principles of Electronic Optics" (Transl. fr. German)
E. Birshtekher, "Microbiology of Crude Oil" (Transl. fr. English)
B.G. Kuznetsov, "Principles of the Theory of Relativity and Quantum Mechanics in their Historical Development"
G.B. Alterman; A.M. Zharskiy; P.A. Krivkov; F.V. Nevolin, "Production of Synthetic Fat Acids, Alcohols and Fat Substitutes in the Soviet Zone of Germany.
M.P. Bedinggauz, "Preserving Natural Colors in Plant Drying".
Jim Corbett, "The Cannibals of Kumaon" (Transl. fr. English)

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KUZNETSOV, B.G.

Genesis and development of the special theory of relativity.
Trudy Inst.ist.est.i tekh. 17:363-388 '57. (MLRA 10:7)
(Relativity (Physics))

KUZNETSOV, B.G.

Development of the study of electricity in Russian science of the 18th century. Trudy Inst. ist. est. i tekh. 19:313-385 '57.
(Electricity--Research--History) (MIRA 11:2)

KUZNETSOV, B.G., professor.

Scientist and revolutionary; on G.M.Krshizhanovskii's 85th birthday.
Priroda 46 no.1:47-48 Ja '57. (MLRA 10:2)
(Krshizhanovskii, Gleb Maksimilianovich, 1862-)

KUZNETSOV, B.G.

AUTHORS: Grigor'yan, A.T., Dorfman, Ya.G. and Kuznetsov, B.G 3-5-34/38

TITLE: A Serious Work on the History of Physics (Ser'yeznyy trud po istorii fiziki)

PERIODICAL: Vestnik vysshey shkoly, 1957, Nr 5, pp 87-90 (USSR)

ABSTRACT: This article is a review of a new book, published in 1948 by Uchpedigiz, "The History of Physics" (Istoriya fiziki) by P.S. Kudryavtsev. The first volume of this book appeared in 1948. Now a second edition of Volume I and a second volume have been published simultaneously. The critics state that this book is a great and useful work and constitutes a serious attempt to cover the history of physics. It must therefore be considered as a valuable contribution to Soviet science literature. The first volume of the new edition shows some improvements compared with its first edition, but there are also a number of shortcomings, in particular, in the periodization, and in the composition and distribution of illustrations. The second volume is very much appreciated by the critics because of the great importance of contribution of Russian scientists which is given great prominence. There are however some faults.

Card 1/2

A serious Work on the History of Physics 3-5-34/38

ASSOCIATION: The Institute of History and Natural Science and Technics, AN USSR (Institut istorii yestestvoznaniya i tekhniki AN SSSR)

AVAILABLE: Library of Congress

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KUZNETSOV, Boris Grigor'yevich; POLAK, L.S., otvetstvennyy red.; LARIN, S.M., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Principles of classic physics] Printsipy klassicheskoi fiziki. Moskva, Izd-vo Akad. nauk SSSR, 1958. 322 p. (MIRA 11:3)
(Physics)

YEREMEYEVA, S.I.; VINOKUR, M.M.; NIKOLAYEV, D.S.; RAYEVSKAYA, M.A.; KAUFMAN, I.M., red.; CHERNYAK, A.Ya., red.; KUZNETSOV, B.G., prof., nauchnyy red.; KHELEMSKAYA, L.M., tekhn. red.

[Great physicists of the world; a bibliography] Vydaiushchiesia fiziki mira; rekomentadtl'nyi ukazatel'. Moskva, 1958. 435 p. (MIRA 11:8)

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[Albert Einstein; on the 80th anniversary of his birth] Al'bert Einshtein; k 80-letiiu so dnia rozhdeniia. Moskva, Izd-vo "Znanie," 1959. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.9, Fizika i khimiia, no.18) (MIRA 12:9)

(Einstein, Albert, 1879-1955)

KUZNETSOV, Boris Grigor'yevich; GRIGOR'YAN, A.T., otv.red.; LARIN, S.I., red.izd-va; SHEVCHENKO, G.N., tekhn.red.

[Principle of relativity in ancient, classical, and quantum physics] Printsip otnositel'nosti v antichnoi, klassicheskoi i kvantovoi fizike. Moskva, Izd-vo Akad.nauk SSSR, 1959. 231 p. (MIRA 12:9)

(Relativity (Physics))

ARTOBOLEVSKIY, I.I., akademik; KUDRYAVTSEV, P.S., prof.; OGORODNIKOV, K.F., prof.; RZHONSNITSKIY, B.N., kand. tekhn. nauk; DOROGOV, A.A., kand. tekhn. nauk; VASIL'YEV, I.G., kand. tekhn. nauk; ISLAMOV, O.I., kand. geol.-miner. nauk; LEONOV, N.I., prof.; RADKEVICH, Ye.A., doktor geol.-miner.nauk; KUZNETSOV, B.G., prof.; MARIYENBAKH, L.M., pref.; RUBINSHTEYN, M.I., prof.; KALMYKOV, K.F., kand. biol. nauk; KONFEDERATOV, I.Ya., prof.; KOZLOV, A.G.; ZUBOV, V.P., prof.; IMSHINETSKIY, A.A.; DORFMAN, Ya.G., prof.; SHUKHARDIN, S.V., kand. tekhn.nauk; KEDROV, B.M., pref.; DANILEVSKIY, V.V., akademik; SHATSKIY, N.S., akademik; BYKOV, K.M., akademik.

Speeches. Vop. ist. est. i tekh. no.6:111-141 '59.
(MIRA 12:6)

1.Chlen-korrespondent AN SSSR (for Imshinetskiy). 2. AN USSR (for Danilevskiy).
(Science) (Technology)

KUZNETSOV, B.G.

Ways of developing a quantum-relativistic logic. Trudy Inst. ist. est. i tekh. 22:69-105 '59. (MIRA 12:10)
(Quantum theory)

KUZNETSOV, B.G.; FRANKFURT, U.I.

History of the law of the conservation and transformation of energy. Trudy Inst.ist.est.i tekh. 28:339-376 '59.
(MIRA 13:5)
(Force and energy)

KUZNETSOV, B.G., otv.red.; GRIGOR'YAN, A.T., otv.red.; LARIN, S.I., red.izd-va; GOLUB', S.P., tekhn.red.

[History of French science; a collection of articles] Iz istorii frantsuzskoi nauki; sbornik statei. Moskva, 1960. 180 p. (MIRA 13:9)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i tekhniki.

(France--Science)

LAPIROV-SKOBLO, Mikhail Yakovlevich; KUZNETSOV, B.G., red.

Edison. Moskva, Molodaia gvardiia, 1960. 252 p. (Zhizn' zamechatel'nykh liudei. Ser.biografii, no.15(305)).
(MIRA 14:7)

(Edison, Thomas Alva, 1847-1931)

PHASE I BOOK EXPLOITATION SOV/4048

Kuznetsov, Boris Grigor'yevich

Besedy o teorii otnositel'nosti (Discussions on the Theory of Relativity) Moscow, Izd-vo AN SSSR, 1960. 222 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya seriya) Errata slip inserted. 50,000 copies printed.

Ed.: I.I. Artobolevskiy, Academician; Ed. of Publishing House: S.I. Larin: Tech. Ed.: T.V. Polyakova.

PURPOSE: This book is intended for intelligent laymen and scientists who wish to gain an insight into the theory of relativity.

COVERAGE: The book discusses the special and general theories of relativity and the physical data necessary to comprehend them. In addition, several applications of the theory of relativity to atomic and nuclear physics are presented. No personalities are mentioned. There are no references.

Card 1/3

Discussions on the Theory of Relativity SOV/4048

TABLE OF CONTENTS:

Card 2/3

AVAILABLE: Library of Congress

Card 3/3

AC/rn/gmp
8-12-60

KUZNETSOV, B.G., MATVEYEV, A.N. [translator]

"Quantum field theory" by H. Umedzawa. Reviewed by B.G. Kuznetsov. Vop.ist.est.i tekh. no.9:159-160 '60.
(MIRA 13:7)

(Quantum field theory)
(Umedzawa, H.)

FRANKFURT, Usher Iosynovich;KUZNETSOV, B.G., otv. red.; LARIN, S.I., red. izd-va; VOLKOVA, V.V., tekhn. red.

[Essays on the history of the special theory of relativity] Ocherki po istorii spetsial'noi teorii otnositel'nosti. Moskva, Izd-vo Akad. nauk SSSR, 1961. 193 p. (MIRA 14:10)
(Relativity)

KUZNETSOV, B.G.

M.V. Lomonosov's scientific conceptions. Izv. Sib. otd. AN SSSR no.11:12-18 '61. (MIRA 15:1)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

KUZNETSOV, B.G., prof.

Physics and lyrics in Lomonosov's work. Nauka i zhizn' 28 no.11:68-69 N '61. (MIRA 14:12)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

KUZNETSOV, Boris Grigor'yevich; LARIN, S.I., red. izd-va; GUSEVA, A.P., tekhn. red.

[Einstein] Einshtein. Moskva, Izd-vo Akad. nauk SSSR, 1962. 405 p. (MIRA 15:6)
(Einstein, Albert, 1879-1955)

KUZNETSOV, Boris Grigor'yevich; LARIN, S.I., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Evolution of the fundamental concepts of electrodynamics]Evoliutsiia osnovnykh idei elektrodinamiki. Moskva, Izd-vo Akad. nauk SSSR, 1963. 292 p. (MIRA 16:2)
(Electrodynamics)

KUZNETSOV, Boris Grigor'yevich; LARIN, S.I., red.izd-va; GUSEVA, A.P., tekhn. red.

[Einstein] Einshtein. 2. izd., ispr. i dop. Moskva, Izd-vo Akad. nauk SSSR, 1963. 412 p. (MIRA 16:7)
(Einstein, Albert, 1879-1955)

KUZNETSOV, Boris Grigor'yevich; LARIN, S.I., red. izd-va; LAUT, V.G., tekhn. red.

[Development of physical ideas from Galileo to Einstein in the light of modern science] Razvitie fizicheskikh idei ot Galileia do Einshteina v svete sovremennoi nauki. Moskva, Izd-vo Akad. nauk SSSR, 1963. 510 p. (MIRA 16:6)

(Physics--Research)

KUZNETSOV, Boris Grigor'yevich; ARTOBOLEVSKIY, I.I., akademik, otv. red.; LARIN, S.I., red.izd-va; GUSEVA, A.P., tekhn. red.

[Talks on theory of relativity] Besedy o teorii otnositel'nosti. Izd.2. Moskva, Izd-vo AN SSSR, 1963. 219 p. (MIRA 16:9)

(Relativity (Physics))

KUZNETSOV, Boris Grigor'yevich, prof.; FAYNBOYM, I.B., red.; RAKITIN, I.T., tekhn. red.

[Physics and logic] Fizika i logika. Moskva, Izd-vo "Znanie," 1964. 30 p. (Novoe v zhizni, nauke, tekhnike. Seriia 9: Fizika, matematika, astronomiia, no.1) (MIRA 17:2)

KUZNETSOV, B.G., otv. red.

[Development of modern physics] Razvitie sovremennoi fiziki. Moskva, Nauka, 1964. 3 p. (MIRA 17:10)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i tekhniki.

KUZNETSOV, B.G., prof.; POMERANCHUK, I.Ya., akademk; SMORODINSKIY, Ya.A., prof.; TAMM, I.Ye., akademik; SHAPIRO, I.S., prof.; CHERNOV, A.G.; FAYNBOYM, I.B., red.

[Problems in the theory of elementary particles; fourth talk] Problemy teorii elementarnykh chastits, beseda chetvertaia. V besede uchastvuiut: B.G. Kuznetsov i dr. Moskva, Izd-vo "Znanie," 1964. 24 p. (Novoe v zhizni, nauke, tekhnike. IX Seriia: Fizika, matematika, astronomiia, no.20)
(MIRA 17:10)

GOL'DANSKIY,V.I.; KUZNETSOV,B.G.,prof.; MIGDAL,A.B.; FRANK,I.M.; CHERNOV, A.G.; FAYNBOY,I.B.,red.

[The constitution of matter; first talk] Stroenie veshchestva; beseda pervaia. [By] V.I.Gol'danskii i dr. Moskva, Izd-vo "Znanie," 1964. 38 p. (Novoe v zhizni, nauke, tekhnike. IX Seriia: Fizika, matematika, astronomiia, no.5) (MIRA 17:5)

1. Chleny-korrespondenty AN SSSR (for Gol'danskiy, Migdal, Frank).

KUZNETSOV, Boris Grigor'yevich

[Essays on Einstein] Etiudy ob Einshteine. Moskva, Nauka, 1965. 381 p. (MIRA 18:11)

L 11092-66 EWT(1)/T/EBD GW/WS-2/WR
ACC NR: AP6027233 SOURCE CODE: UR/0109/66/011/008/1405/1412

AUTHOR: Yesepkina, N. A.; Kaydanovskiy, N. L.; Korol'kov, D. V.; Kuznetsov, B. G.; Khaykin, S. E.

55
B

ORG: none

TITLE: Effects of atmosphere on characteristics of small radio telescopes

SOURCE: Radiotekhnika i elektronika, v. 11, no. 8, 1966, 1405-1412

TOPIC TAGS: radio telescope antenna, radar antenna, ATMOSPHERIC PROPERTY, RADIO WAVE ABSORPTION

ABSTRACT: A study is conducted of atmospheric effects on the performance of a high-resolution radio telescope antenna with a variable profile. Factors influencing the antenna dimensions, such as wavefront phase distortions, existence of a gradient of index of refraction, and radio wave absorption in the ground layer of the atmosphere are considered. It is noted that phase distortion can be minimized if the average radius of curvature of the reflector is much greater than the height of irregularities in the atmosphere. By assuming a 10^{-4} relative accuracy of the antenna reflecting surface and mean atmospheric conditions, antenna gain was calculated for various azimuth angles. Nearly optimal performance conditions were found for the vertical dimensions of a reflector equal to $0.5 \times 10^3\lambda$, and horizontal dimensions of an antenna chosen to make the attenuation equal to 30%. With such a choice of

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ACC NR: AP6027233

dimensions, the effective area of the antenna is 2×10^5, 1.3×10^4, 0.9×10^3 m^2 for λ = 10, 3 and 1 cm, respectively. Orig. art. has: 6 figures and 2 formulas.[IV]

SUB CODE: 09, 17/ SUBM DATE: 12Apr65/ ORIG REF: 012/ OTH REF: 003/ ATD PRESS: 5052

Card 2/2 hs

KUZNETSOV, Boris Grigor'yevich

[Talks on the theory of relativity] Besedy o teorii otnositel'nosti. 3. izd. Moskva, Nauka, 1965. 221 p.
(MIRA 18:3)

30426
S/109/61/006/012/001/020
D266/D305

9, 1911 (1127)

AUTHORS: Yesepkina, N.A., Kaydanovskiy, N.L., Kuznetsov, B.G., Kuznetsova, G.V., and Khaykin, S.E.

TITLE: Investigating the radiation pattern of highly directive antennas whose reflecting surface is adjustable

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 12, 1961, 1947 - 1960

TEXT: The purpose of the paper is to derive mathematical expressions for the radiation pattern and for the effective area of a certain class of antennas. The antenna investigated consists of a large number of elements (rectangular metal plates of height h and width a) whose position and inclination are adjustable. The elements are in no mechanical contact with each other which facilitates greater accuracy of manufacturing. They can be adjusted in such a way that the main lobe of the vertical radiation pattern is in a specified direction (θ_o in Fig. 1). This condition is satisfied if the radius vector of the center of the elements is given by the follow-

Card 1/4

Investigating the radiation pattern ...

ing formula

$$\rho = \frac{p}{1 + \cos\theta_0 \cos\varphi} = \frac{R_0 - a_0 \cos\theta_0}{1 + \cos\theta_0 \cos\varphi} \qquad (1)$$

where p - constant, φ - angle between the radius vector and the x axis (see Fig. 1). If $0 < \theta_0 < \pi/2$ (1) represents an ellipse, for $\theta_0 = 0$ a parabola, and for $\theta_0 = \pi/2$ a circle. It follows from (1) that the distance between the primary source and the reflector depends also on θ_0. The inclination of the metal plates is determined by the angles β and χ (see Fig. 1) which are related to θ_0 and as follows

$$\sin\beta = \frac{\sin\theta_0}{\sqrt{2(1 + \cos\theta_0 \cos\varphi)}} \qquad (3)$$

and

$$\tan\chi = \frac{\sin\varphi}{\cos\theta_0 + \cos\varphi} \qquad (4)$$

Card 2/4

In a plane perpendicular to the direction of the main lobe, the waves are in phase (this must be always the case because the antenna was designed according to this criterion) and the shape of the illuminated area in this plane is an incomplete ring. The distribution of the electric field (both polarizations are present) in the aperture is calculated by geometrical optics and the far field is obtained with the aid of wave optics. The arising integrals are integrated out leading to an infinite series of Bessel functions of the first kind. The radiation pattern is calculated for the reflector current as well. No analytical solutions are found in this case, but some numerical calculations indicate similar results to those obtained by the aperture method. Aperture efficiency is also determined and monotonically decreasing function of θ_0 is found. In conclusion the authors express their gratitude to V. B. Braude for his assistance. There are 15 figures and 9 references: 8 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: S. Silver, Microwave Antenna Theory and Design, M.I.T. Rad. Lab. Series.

SUBMITTED: February 22, 1961
Card 3/3

KUZNETSOV, B. G., Cand of Phys-Math Sci -- (diss) "Generalized Virtual Permutations," Tomsk, 1959, 4 pp (Tomsk State University im V. V. Kubyshev) (KL- 7-60, 106)

KUZNETSOV, B. G. (Tomsk)

"On Variational Methods in Gas Dynamics."

report presented at the First All-Union Congress on Theoretical and Applidd Mechanics, Moscow, 27 Jan - 3 Feb 1960.

S/124/61/000/012/019/038
D237/D304

AUTHOR: Kuznetsov, B. G.

TITLE: On Beutmann's second variational principle

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 12, 1961, 51, abstract 12B326 (Tr. Tomskogo un-ta, 1959, 144, 117-124)

TEXT: A steady motion is considered of non-viscous gas in some region of n-dimensional space, when the surface of discontinuity may be contained within that region, and it is assumed that the boundary problems emerging during investigation of such flows are equivalent to some variational problems. This enables a formal generalization of some results, true for 2- and 3-dimensional gas flows, to n-dimensional gas flows. In particular, the hypothesis of Yu. V. Rudnev (Dokl. AN SSSR, 1948, 59, no. 5) on plane vortex motions is generalized to n-dimensional gas flows and to flows with a variable resistance pressure. [Abstracter's note: Complete translation.]

Card 1/1

Chair of Theoretical Mechanics, Tomsk State U.

YESEPKINA, N.A.; KUZNETSOV, B.G.; KHAYKIN, S.E.

Effect of fluctuations of the atmospheric refraction index on the characteristics of superlarge antennas. Izv. GAO 23 no.3: 155-159 '64. (MIRA 17:11)

DORIN, V.A.; KUZNETSOV, B.I.

Device for perforating orifices in electron microscope preparation sieves. Zav.lab. 29 no.8:1012 '63. (MIRA 16:9)

1. Leningradskiy fiziko-tekhnicheskiy institut imeni A.F. Ioffe AN SSSR.

(Electron microscopy)

L 12933-63 EWT(l)/FBD/FCC(w)/BDS/EEC-2/EED-2/ES(v) AFFTC/AFMDC/APGC/ASD/ESD-3 Pe-4/Pi-4/Pj-4/Pk-4/Pl-4/Pm-4 PT-2/GW/WR

ACCESSION NR: AP3003845 S/0020/63/151/003/0532/0535

AUTHOR: Kotel'nikov, V. A. (Academician); Dubrovin, V. M.; Dubinskiy, B. A.; Kislik, M. D.; Kuznetsov, B. I.; Lishin, I. V.; Morozov, V. A.; Petrov, G. M.; Rzhiga, O. N.; Sy*tsko, G. A.; Shakhovskoy, A. M.

TITLE: Radar observations of Venus in the Soviet Union in 1962

SOURCE: AN SSSR. Doklady*, v. 151, no. 3, 1963, 532-535

TOPIC TAGS: radar observation, Venus observation, average reflected signal spectrum, reflection coefficient, broadband component, frequency-modulated reflected signal, reflected signal envelope, noise envelope

ABSTRACT: From 20 October to 21 December 1962, radar observations of Venus were made, each of a duration of 4.5 to 7 min. The radar employed was the same used in 1961 observations but with its sensitivity improved by a factor of 6 by means of a paramagnetic ruby amplifier placed at the receiver input and through an increase in transmitter power. In order to eliminate the average noise level in the received signal, the frequency of the transmitted signal was shifted 62.5 cps every 4.096 sec. The frequency spectrum of the reflected signals was recorded on magnetic tape and investigated by means of a 20-channel analyzer. The average

Card 1/3

spectrum of reflected signals plotted on the basis of the sum of measurements at both frequencies radiated by the transmitter is shown in Fig. 1a of Enclosure. The spectrum was analyzed by filters with a passband of 1 cps. The frequency values of analyzer filter tunings f in relation to the frequency of central filter f_o are plotted along the abscissa, while value p, representing the ratio of reflected signal power in each filter band to the signal power in the central filter band, is plotted along the ordinate. Dotted lines show the RMS value of measurement errors caused by noise. Except for the central filter, which yields a higher signal level, the reflected signal spectrum may be approximated by the exponential function

$$p = 0.37 \exp(-0.42|f-f_o|).$$

The reflection coefficient of Venus measured on the basis of reflected signal energy within 20 cps varied during the two-month period between 12 and 18%. In the 1-cps band reflected energy was lower than total energy by a factor of 2.5 to 3. The spectrum of the broadband component of the reflected signal observed previously was also observed. Here the transmitted signal consisted of constant periodic transmissions whose frequencies differed from each other by 2000 cps and whose duration was 4.096 sec. The analyzer filter passband was 100 cps. The measurements showed a strong probability of the presence of the broadband component

in the 300-cps band. The average spectrum of frequency-modulated reflected signals which was analyzed by filters with passbands of 1 and 4 cps is shown in Fig. 1b. The same quantities as in Fig. 1a are plotted along the coordinate axes, and range axis ΔR is indicated under the assumption that the spectrum maximum corresponds to reflection at a point situated at the shortest distance from Earth in the center of the visible disk of Venus. The data of Fig. 1b may be approximated by the hyperbola

$$p = 0.625\ (f - f_0 + 0.625)^{-1}.$$

Fig. 2a shows the diagram of the envelope of the reflected signal obtained on 24 November 1962 during a 4.5-min study of the unmodulated carrier. The receiving channel passband was 6 cps before the linear detector, and the integrating circuit time constant was 6 sec after it. For comparison, Fig. 2b shows the noise envelope diagram for an analogous channel shifted in frequency by 62.5 cps containing no signal. "The authors thank the following persons for their assistance: L. V. Apraksin, R. S. Bondarenko, V. O. Voytov, M. M. Dedlovskiy, N. M. Dmitriyev, V. S. Dovgello, V. I. Krivda, V. M. Mekhorin, G. A. Podoprigora, N. M. Sinodkin, G. I. Slobodenyuk, Z. G. Trunova, A. V. Frantsesson, and D. M. Tsvetkov."
Orig. art. has: 4 figures and 2 formulas.

Inst. of Radio Engineering and Electronics

L 14255-63 EWT(1)/FBD/FCC(w)/BDS/EEC-2/EED-2/ES(v) AFFTC/APGC/ASD/
ESD-3 Pe-4/Pi-4/Pj-4/Pk-4/Pl-4/Pm-4 PT-2/WR

ACCESSION NR: AP3004417 S/0020/63/151/004/0811/0814 10 98

AUTHOR: Kotel'nikov, V. A.; Dubrovin, V. M.; Dubinskiy, B. A.; Kislik, M. D.; Kuznetsov, B. I.; Petrov, G. M.; Rabotyagov, A. P.; Rzhiga, O. N.; Shakhovskoy, A. M.

TITLE: Radar observations of the planet Mars in the Soviet Union

SOURCE: AN SSSR. Doklady*, v. 151, no. 4, 1963, 811-814

TOPIC TAGS: Mars radar observations, Mars reflected-signal spectrum, Mars Doppler-frequency shift, Mars rotation time, Mars reflection coefficient

ABSTRACT: Radar observations of Mars' northern hemisphere from 14°30' to 14° latitude and from 310 to 360° and from 0 to 140° longitude were carried out in the Soviet Union on 6—10 February 1963 at a frequency of approximately 700 Mc. The polarization of radiated waves was circular, with antenna polarization changing to linear during reception. The energy of the signal incident on the visible surface of Mars was 1.2 v. Both transmission and reception lasted approximately 11 minutes. The signal had the shape of alternate rectangular transmissions and intervals of a duration of 4.096 sec each, at two frequencies

Card 1/2

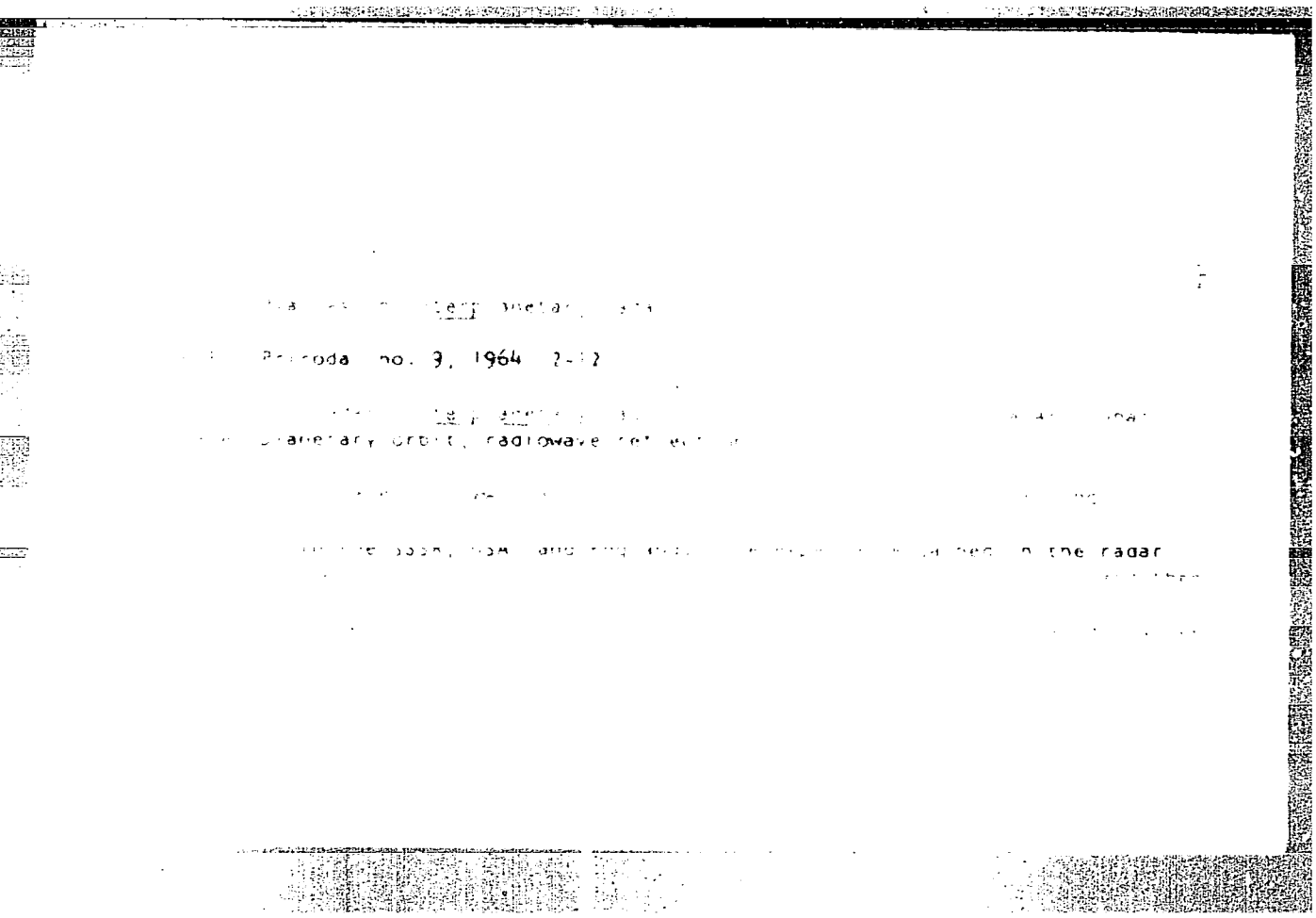
L 14255-63

ACCESSION NR: AP3004417 10

differing by 62.5 cps. The signals were recorded on a magnetic tape together with a 2000-cps oscillation, which served as a scale. Receiver sensitivity was calibrated before and after operation on the basis of Cassiopeia-A discrete-source radiation. The correction for frequency shift due to the Doppler effect was regulated by an electronic digital frequency meter. In all, 99 observations were made, and the signal reflected from Mars was reliably detected on the nights of February 7—8 (28 observations) and February 8—9 (20 observations). The results of spectral analysis of these 48 observations, carried out with 4-cps filters and a storage time of 8.5 hr, are shown in Fig. 1 of the Enclosure. In the reflected signal spectrum, there is a narrowband component whose energy exceeded by 4 times the RMS measurement error caused by noise. The average reflection coefficient, determined as the ratio of the reflected-signal energy to received-signal energy under the assumption that Mars was an even, ideally conductive sphere, was found to be 7%. "The authors thank L. V. Aprakein, V. O. Voytov, M. M. Dedlovskiy, G. A. Zhurkina, A. M. Lukin, M. M. Sinodkin, B. A. Stepanov, A. V. Frantsesson, D. M. Tsvetkov, and I. A. Sharabarin for their assistance." Orig. art. has: 3 figures, 1 table, and 1 formula.

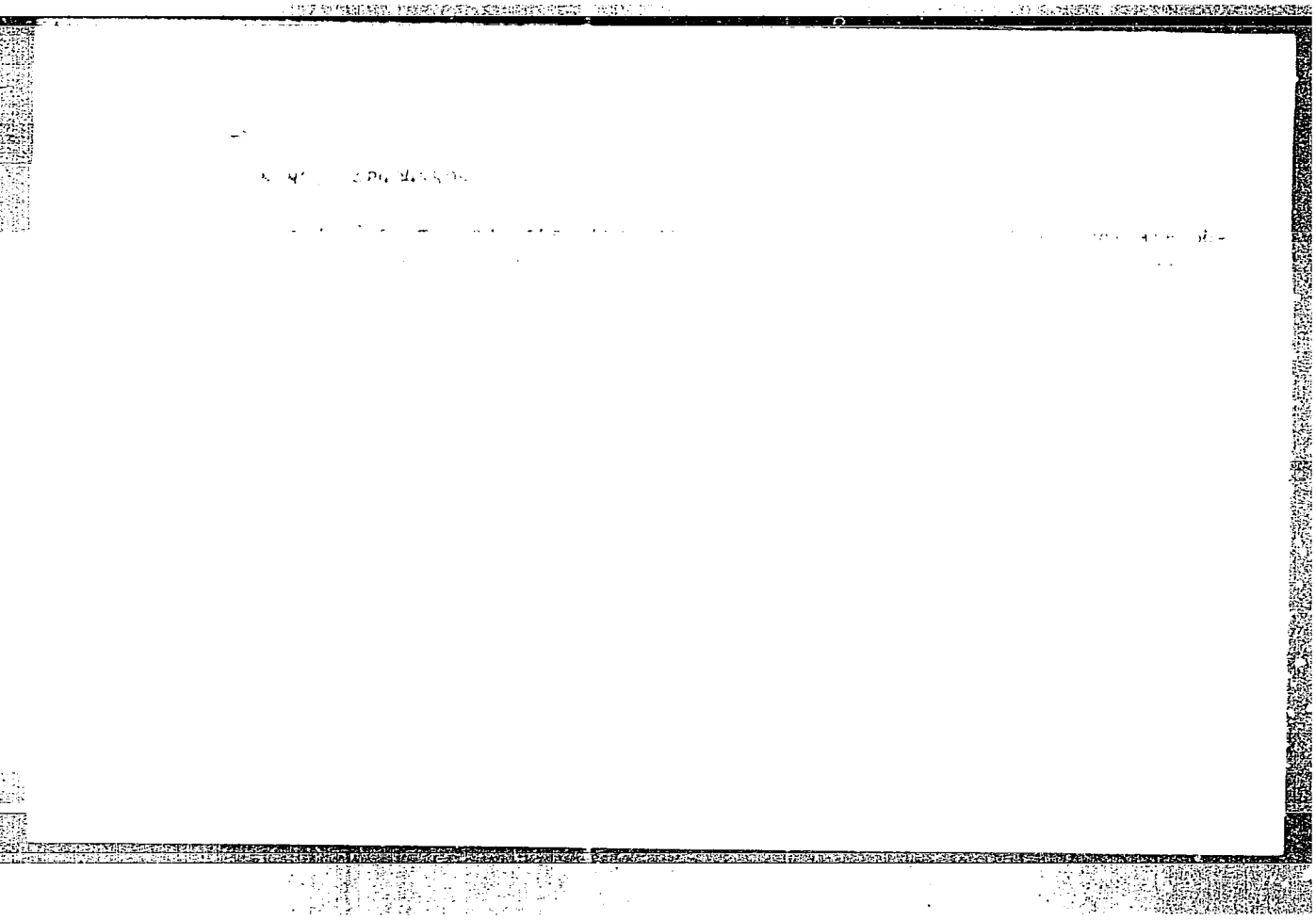
Association: Inst. of Radio and Engineering and Electronics

Card 2/42



NR AP4045505

the values obtained for the astronom and the radar frequency measurements



ACCESSION NR: AP4034534 S/0020/64/155/005/1037/1038

AUTHOR: Kotel'nikov, V. A. (Academician); Aprakein, L. V.; Dubrovin, V. M.; Kislik, M. D.; Kuznetsov, B. I.; Petrov, G. M.; Rzhiga, O. N.; Frantsesson, A. V.; Shakhovskoy, A. M.

TITLE: Radar ranging of the Planet Jupiter

SOURCE: AN SSSR. Doklady*, v. 155, no. 5, 1964, 1037-1038

TOPIC TAGS: Jupiter radar ranging, Jupiter reflection coefficient, radio astronomy, Jupiter, Doppler effect

ABSTRACT: The radar ranging of Jupiter was undertaken in order to investigate the propagation of radiowaves over long distances and for the determination of reflecting properties of Jupiter's surface. The power received by the planet's surface was 13 w. The time for double passage of the signal was 1 hr, 6 sec, and the frequency was about 700 mc. Two consecutive signals differed by 62.5 cycles. The duration of the signals and the pauses was about 4 sec. The Doppler effect caused by the relative motion and rotation of Earth was compensated by an arrangement which linearly changed the heterodyne of the sender. The noise was

Card 1/2

ACCESSION NR: AP4034534

automatically subtracted from the accumulated signal during the absence of the signal. The reflection coefficient of Jupiter was found to be about 10%. "The authors are grateful to B. A. Dubinskiy, G. A. Zhurkina, Yu. N. Marokhovskiy, G. A. Simonor, D. M. Tsvetkov, and V. F. Chernov for participation in the preparations and in making the measurements." Orig. art. has: 1 figure.

ASSOCIATION: Institut radiotekhniki i electroniki Akademii nauk SSSR (Institute of Radio Engineering and Electronics, Academy of Sciences, SSSR)

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Card 2/2