DOBROVOL'SKIY, N.N.; ZARIF'YANTS, Yu.A.; KISELEV, V.F.; LEZHNEV, N.N.; FEDOROV, G.G.

Properties of the surface of a freshly left graphite. Part 4. Zhur. fiz. khim. 38 no.2:506-509 F 164. (MIRA 17:8)

l. Mcskovskiy gosudarstvennyy universitet Nauchno-issledcratel - skiy institut shinnoy promyshlennosti.

LEZHNEY, N.N.; KOZYREY, B.M.; GARIF'YANOV, N.S.; RYZEMANOV, Yu.M.; NOVIROVA, I.S.

Probable mechan sm underlying the reaction of carbon black with phenyl-2-naphthylamine and mercaptobenzothiazole (captax). Dokl. AN SSSR 159 no.5:1127-1130 D *64 (MIRA 18:1)

1. Nauchno-issledovatel skiy institut shinnoy promyshlennosti i Kazanskiy fiziko-tekhnicheskiy institut AN SSSR. Predstavleno akademikom M.M. Dubininym.

L 27621-65 EWT(m)/EPF(c)/EWP(t)/T/EWP(j)/EWP(b) Pc-Li/Pr-Li IJP(c) JD/RM ACCESSION NR: AP5005392 S/0138/65/000/002/0016/0019

AUTHOR: Lezhnev, N. N.; Yampol'skiy, B. Ya.; Lyalina, N. M.; Volodina, V. V.

TITLE: Simulation of the effect of carbon-black structures on the reinforcement of rubber

SOURCE: Kauchuk 1 rezina, no. 2, 1965, 16-19

TOPIC TAGS: rubber strengthening, carbon black structure, simulating system, carbon black dispersion, strengthening mechanism

ABSTRACT: A study has been made of structure formation of carbon-black dispersions in xylene and in raw rubber solutions — systems which simulate filled rubbers. The experiments were conducted with unmodified and modified common carbon blacks. The structure formation processes were determined from measurements of electrical conductivity and ultimate shearing stress. It was shown that carbon-black dispersions form quasi-equilibrium coagulation systems with thixotropic properties. The addition of small amounts of rubber to carbon-black dispersions sharply increased the strength of the structures. The strengthening of the systems was attributed not only to adsorption of the polymers onto the black, but also to the formation of macromolecular structures which are oriented along the carbon-black chains to

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810

L 27621-65

ACCESSION NR: AP5005392

form a supramolecular network. Chemical or physical modification of the carbonblack surface changed the surface energy and sharply affected the structure of the dispersions and their mechanical properties. Orig. art. has: 5 figures and 1

[BO]

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Rubber Industry); Moskovskiy Gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 00

ENCL: 00

SUB CODE:

MT

NO REF SOY: 007

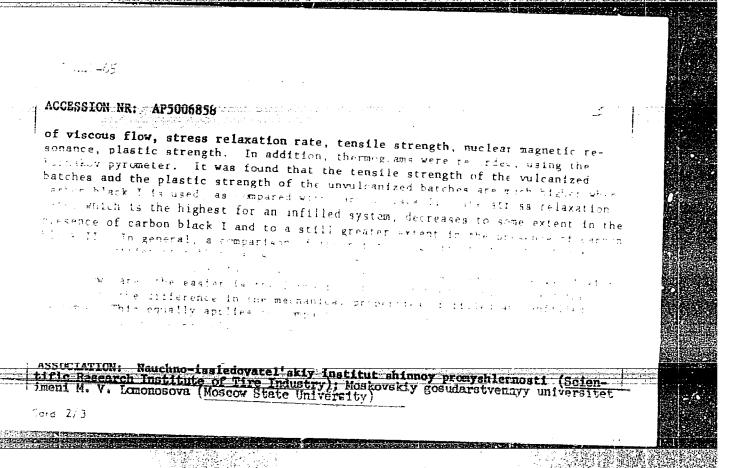
OTHER: 002

ATD PRESS: 3190

Card 2/2

715 10 1/ DENT (m) PC-4/Pr-4/Ps-4 ACCESSION NR: AP5006858 \$/0020/65/160/004/0861/0863 AUTHOR: Lezhnev, N. N.; Yampol'skiy, B. Ya.; Lyalina, N. M.; Dreving, V. P. Investigation of the structural properties of carbon black-reinforced TITLE: rubbers SCUECE: AN SSSR. Doklady, v. 160, no. 4, 1965, 861-863 TOPIC TAGS: rubber reinforcement, carbon black, vulcanized rubber, unvulcanized rubber, graphitization, stress relaxation rate, activation energy, nuclear magnetic resonance, molecular interaction, polymer ABSTRACT: The present work was carried out because of lack of clarity on the mechanism of the reinforcing effect of active rubber fillers. Vulcanized and unvulcanized rubber-carbon black systems were investigated. The rub at a good were Bittire forester ger

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810



LEZHNEV, N.N.; YAMPOL'SKIY, B.Ya.; LYALINA, N.M.; VOLODINA, V.V.

Studying the influence of the carbon black structures on the effect of rubber reinforcement in model systems. Kauch. i rez. 24 no.2:16-19 F '65. (MIRA 18:4)

1. Nauchno-issledovatel skiy institut shinnoy promyshlennosti i Moskovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0009298100

LEZHNEV, N.N.; TERENT'YEV, A.P.; NOVIKOVA, I.S.; KOBZEVA, T.A.

Using the bromination method for the testing of carbon black. Xauch. i rez. 24 no.9:16-20 '65. (MIRA 18:10)

1. Nauchno-issledovatel skiy institut shinnoy promyshlemosti i Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810

t. 00676-67 EWT(m)/EWP(j) IJP(c) JWD/RM ACC NR: AP6017860 (A) SOURCE CODE: UR/0069/66/028/003/0420/0423 AUTHOR: Lozhnev, N. N.; Lyalina, N. M.; Zelenev, Yu. V.; Bartenev, G. M. ORG: Scientific Research Institute of the Tire Industry, Moscow (Nauchno-issledovatel skiy institut shinnoy promyshlennosti) TITIE: Influence of the nature of carbon black surface on the relaxation properties SOURCE: Kolloidnyy zhurnal, v. 28, no. 3, 1965, 420-423 TOPIC TAGS: butadiene styrene rubber, carbon black, filler, stress relaxation, ABSTRACT: The influence of the surface character of carbon black fillers on the formation of the reinforced structure of rubber and hence on the molecular mobility and relaxation properties of the rubber was studied. Rubbers based on stereoregular polybutadiene rubber Yuropren-cis-1,4 (SKD) and butadiene-styrene rubber Yuropren-1500 (BSK) sextended with various types of carbon black were employed. Stress relaxation curves of the rubber were recorded on a relaxometer at 20 and 70°C. It was found that the more active the carbon black from the standpoint of its reinforcing effect, the more level is the chape of the relaxation time spectrum, i.e., the greater the role of long relaxation times of the extended systems, owing to a limited mobility of the macromolecules of the reinforced polymer structures. The increase in the number of re-UDC: 541.183.1 Card 1/2

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1. 00676 67 ACC NR: AP6017860

laxing elements with short relaxation times of the extended systems indicates the presence of carbon black - polymer bonds, comparable in strength to intermolecular bonds, energies (more or less weaker than the energy of intermolecular interaction). The reters. The data obtained confirm the concepts advanced in the literature, according to which the reinforced filler - polymer coagulation structures are mosaic in character. Indeed, the most active from the standpoint of reinforcing effect is carbon black a background of relatively low activity. It is concluded that in an extended rubber inforced, and that there is no distinct boundary between them. Orig. art. has: 2

SUB CODE: 11/ SUBM DATE: 03Jan65/ ORIG REF: 012/ OTH REF: 003

Card 2/2 vir

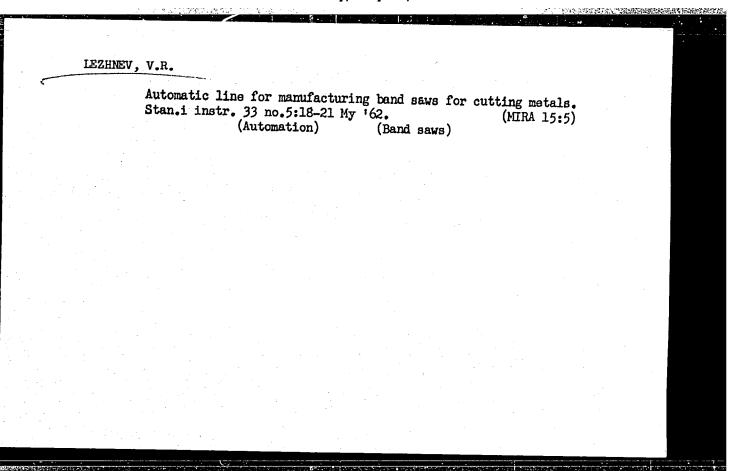
LEZHNEV, V.R.

Semiautomatic milling machine for milling helical flutes in instruments. Stan. i instr. 36 no.7122.23 Jl '65.

(MIRA 18:8)

LEZHNEV, V.R.

Precision stamping of lathe tools with induction heating. Stan.i instr. 34 no.5:37-38 My 163. (MIRA 16:5)



LEZHNEV, Yu.V.

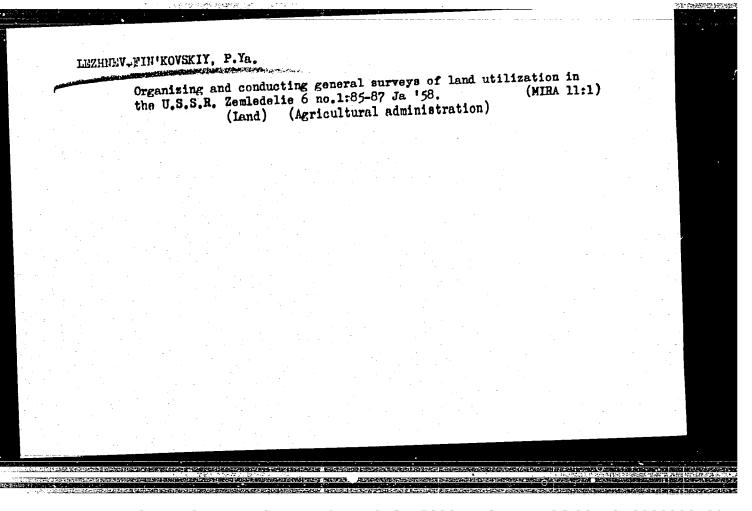
Central Institute for Information and Documentation in the Garman Democratic Republic. NTI no.6:50 '64. (PIRA 17:9)

Principles for the organization of a system of institutions disseminating science information in the member countries of the Mutual, Economic Assistance Council. NTI no.12:38-41 '64. (MIRA 18:3)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

- 1. LEZHNEV-FIN'KOVSKIY, P. Ya.
- 2. USSR (600)
- 4. Agriculture
- 7. In the technical Council of the Ministry of Agriculture for the U. S. S. R. Sov. agron., 10, No. 11, 1952

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



OVEZCEL'DYYEV, O.; LEZHIEVA, A.

Relation of E_g to the F-region of the ionosphere. Izv. AN Turk.

Relation of E_g to the F-region of the ionosphere. Izv. AN Turk.

SSSR. Ser. fiz.~tekh., khim. i geol. nauk no.32119-120 164

(NIRA 1821)

1. Otdel razvodochnoy geofiziki i seysmologii AN Turkmenakoy SSR.

AMIROVA, S.A.; FECHKOVSKIY, V.V.; FROKHOROVA, V.G.; OSTROVSKAYA, T.V.;

IEZHBEVA, A.A. (Perm')

Oxidation of iron-vanadium spinel by oxygen. Zhur. fiz. khim.
38 no.4s916-920 Ap '64.

1. Permskiy politekhnicheskiy institut.

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; ZHERELEVA, T.V.;
LEZENEVA, A.A.

Oxidation of manganese-vanadium spinel by oxygen. Zhur. fiz. khim.
38 no.1:108-114, Ja 64. (MIRA 17:2)

1. Permskiy politekhnicheskiy institut.

ACCESSION NR: AP4034578

8/0076/64/038/004/0916/0920

AUTHOR: Amirova, S. A. (Perm'); Pechkovskiy, V. V. (Perm'); Prokhorova, V. G. (Perm'); Ostrovskaya, T. V. (Perm'); Lezhneva, A. A. (Perm')

TITIE: Oxidation of iron-vanadium spinel by oxygen.

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 4, 1964, 916-920

TOPIC TAGS: iron vanadium spinel, oxidation, thermogram, iron orthovanadate containing system, vanadium pentoxide containing system, iron orthovanadate, solid subtraction solution, vanadium hematite solution, fusion temperature, solubility, alkali additive, oxidation acceleration

ABSTRACT: This investigation of the oxidation of iron-vanadium spinel by oxygen included a study of the composition and properties of the phases formed, and the effect of small amounts of alkali additives on the oxidation process. Thermograms for the iron-vanadium spinel system, for iron orthovanadate and for the iron orthovanadate-vanadium pentoxide system were constructed. In the oxidation of the spinel the formation of a solid subtraction solution (exotherm at 236-336C, spinel crystal structure is retained but the cell parameters decreased) preceeds

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

ACCESSION NR: AP4034578

decomposition of the spinel. Three phases are formed by the oxidation of the spinel (exotherm at 462-573C): vanadium pentoxide, iron orthovanadate and the phase R203 which represents a solid solution of vanadium in hematite. The endotherms 619-641 and 790-8500 correspond to the fusion of the eutectic of vanadium pentoxide and iron orthovanadate and the pure FeVOh. The solubility of iron orthovanadate in 10% H₂504 was determined. The addition of 0.5% KCl to the spinel greatly accelerates its oxidation but does not affect the oxidation products. Orig. art. has: 2 tables and 4 figures.

ASSOCIATION: Permskiy politekhnicheskiy institut (Permsk Polytechnical Institute)

SUBMITTED: 28Apr63

SUB CODE: : MM, GC / NO REF SOV: 003

1-27267-65 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(b) ₽r-4 IJP(c) JD/JG/WB

ACCESSION NR: AP4011442 S/0076/64/038/001/0108/0114

AUTHORS: Amirova, S.A. (Perm'); Pechkovskiy, V.V. (Perm'); Prokhoro va, V.G. (Perm'); Zhebeleva, T.V. (Perm'); Lezhneva, A.A. (Perm')

TITLE: Oxidation of manganese-vanadium spinel by oxygen 27 SOURCE: Zhurnal fiz. khim. v. 38, no. 1, 1964, 108-114

TOPIC TAGS: manganese vanadium spinel, manganese vanadium spinel exidation, spinel decomposition, manganese metavanadate, manganese pyro vanadate

ABSTRACT: The oxidative annealing of manganese-vanadium spinel was investigated from 0 to 1000C, using thermographic analysis simultaneously with x-ray, crystallooptic and chemical methods. The first stage of the oxidation is the chemisorption of oxygen on the surface of the spinel grains and the formation of a solid solution. Decomposition of the spinel at both high and low temperatures proceeds according to the following equations: $2Mn0 \cdot V_2O_3 + 2O_2 =$ $Mn_2V_2O_7 + V_2O_5$; $Mn_2V_2O_7 + V_2O_5 = 2Mn(VO_3)_2$.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810

L 27267-65

ACCESSION NR: AP4011442

products are acid soluble and almost insoluble in water. The melting points of manganese metavanadate and pyrovanadate are given as 805 and 1023C respectively. Small additions of potassium chloride intensify the rate of oxidation. Orig. art. has: 2 equations, 10 figures and 1 table.

ASSOCIATION: Permskiy politekhnicheskiy institut (Perm Polytechnical Institute)

SUBMITTED: 05Mar63 ENCL: 00

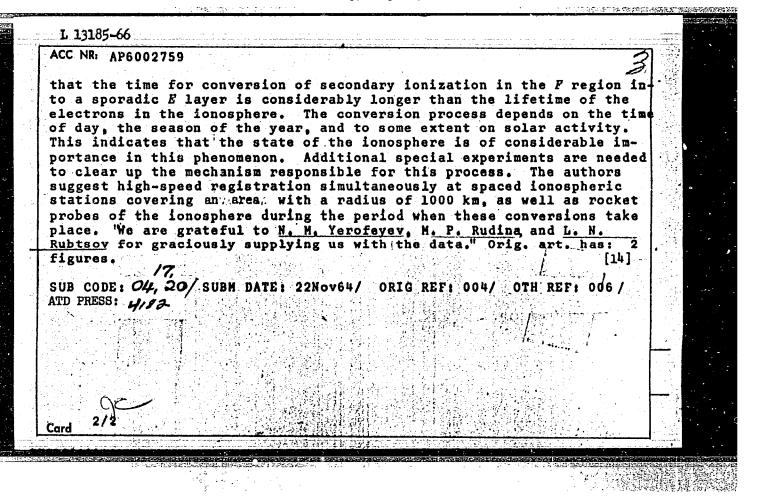
SUB CODE: Mm NR REF SOV: 005 OTHER: 004

YEROFEYEV, N.M.; LEZHNEVA, A.V.

Statistical nature of the fluctuations of ionospheric parameters. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.4: 26-34 161. (MIRA 14:12)

1. Fiziko-tekhnicheskiv institut AN Turkmenskoy SSR. (Ionospheric research)

L 13185-66 EWT()
ACC NR: AF6002759 EWT(1)/FCC/EWA(h) SOURCE CODE: UR/0203/65/005/006/1111/1113 AUTHOR: Ovezgel'dyyev, O.; Lezhneva, A. V. ORG: Department of Geophysics and Seismology, AN TurkmSSR (Otdel geo fiziki i seysmologii AN TurkmSSR) TITLE: Relationship between E_g and the F region of the ionosphere SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1111-1113 TOPIC TAGS: E layer, F layer, ionosphere, solar activity, ionospheric propagation ABSTRACT: This paper gives the results of analysis of experimental data on conversion of part of the F region into the sporadic E layer for the period from 1959 to 1963. The conversion or transition process takes place in the daylight hours from 0800 to 1700 hours, with a maximum at at about 1200-1300 hours LT. There are strong indications that the process is local in nature. This transition phenomenon takes place with considerably less frequency during years of maximum solar activity. Analysis shows no definite correlation between the conversion process and ionospheric or geomagnetic activity, which seems to indicate that the phenomenon is independent of magnetic activity altogether. It is found UDC: 550.388.2 Card 1/2



IEZHNEVA, G., prepodavatel obshchestvovedeniya

Newspapers in the social science classes. Prof. -tekh. obr. 21 no.3: 22 Ag '64. (MIRA 17:9)

1. Gorodskoye professional'no-tekhnicheskoye uchilishche No.5, Lei ugradskaya obl.

LEZHNEVA, K.A.; BORISOVA, T.I.; SLIN'KO, M.G.

Anodic oxidation of sulfur dioxide on gold and platinum-gold

alloys. Kin.i kat. 2 no.6:854-861 N-D '61. (MIRA 14:12)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.
(Sulfur dioxide)
(Oxidation) (Platinum-gold alloys)

Polarographic determination of bicyclic aromatic hydrocarbons in petroleum products. Khim. i tekh.topl. i masel 10 no.11: 58-61 N '65. (MIRA 1921)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimi-cheskikh protsessov.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

LEXHNEVA, O.A.

Scientific activity of E.Kh.Lents in the field of physics. Trudy Inst.ist. est. 4:104-139 '52. (MLRA 6:7)

(Lens, Heinrich Friedrich Emil, 1804-1865)

LEZHNEVA, O.A; RZHONSNITSKIY, B.N. [authors]; TSVERAVA, G.K., inzhener (Boksito-gorsk) [reviewer].

"Emilii Khristianovich Lents." O.A. Lezhneva, B.N. Rzhonsnitskii. Reviewed by G.K. TSverava. Elektrichestvo no.6:92-93 Je '53. (MLRA 6:7) (Lents, Emilii Khristianovich, 1804-1865) (Lezhneva, O.A.) (Rzhonsnitskii, B.N.)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

LEZHNEVA, O. A.

"Problems on Electro-dynamics in Soviet Physics in the First Part of the 19th Century" from Works of the Historical Inst. on Natural Sciences and Engineering, Vol. 5, p. 94, 1955.

LEZHNEVA, O.A., kandidat fiziko-matematicheskikh nauk.

Works of Charles Coulomb in the field of electricity and magnetism. Elektrichestvo no.11:79-82 N 156. (MERA 9:12)

1. Institut istorii estestvosmaniya i tekhniki Akademii nauk SSSR.

(Coulomb, Charles Augustin, 1736-1806)

Santa a la fatta de la casa de la

LEZHNEVA, O.A., kandidat fiziko-matematicheskikh nauk.

Charles Augustin Coulomb. Nauka i zhizn' 23 no.8:57 Ag '56.

Charles Augustin Coulomb. Nauka i zhizn' 23 no.8:57 Ag '56. (Coulomb, Charles Augustin de, 1736-1802) (MIRA 9:9)

LEZHNEVA, O.A.

Life and works of Charles Augustin de Coulomb. Trudy Inst. ist. est. i tekh. 19:386-396 '57. (MIRA 11:2) (Coulomb, de, Charles Augustin, 1736-1806)

LEZHISEX (1) ... Q., A

AUTHOR:

None given

SOV/3-58-12-30/43

TITLE:

Intervuz Scientific and Methodical Conferences (Mezhvuzovs-kiye nauchnyye i metodicheskiy konferentsii). A Conference on the History of Physics (Konferentsiya po istorii fiziki)

PERIODICAL:

Vestnik vysshey shkoly, 1958, Nr 12, p 77 (USSR)

ABSTRACT:

The recent Intervuz Conference on the History of Physics, held at the Tambovskiy pedagogicheskiy institut (Tambov Pedagogical Institute) was attended by 50 scientific workers of pedagogical institutes of the RSFSR, Ukraine, Georgia, Baltic Republics, Moldavia, the MGU and the Institut istorii yestest-voznaniya i tekhniki AN SSSR (Institute for the History of Natural Science and Engineering of the AS USSR). The Director of the latter, Professor N.A. Figurovskiy, spoke on the role of the conference as the first successful attempt to unite the efforts of Soviet Historians of Physics on an All-Union scale. The scientific worker of the Institute for the History of Natural Science and Engineering of the AS USSR, O.A. Lezhneva, told the conference of the first theories of elec-

Card 1/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00

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SOV/25-59-9-37/49

AUTHOR:

Lezhneva O., Candidate of Physico-mathematical

Sciences

TITLE:

A Book on a German Scientist

PERIODICAL:

Nauka i zhizn', 1959, Nr 9, pp 74 - 75 (USSR)

ABSTRACT:

This is a review of the book "Max Planck 1858-1958", edited by Academician A.F. Ioffe and Candidate of Physico-mathematical Sciences A.T. Grigoryan and pubsico-mathematical Sciences A.T. Grigoryan and published by the Publishing House of the AS USSR, Moskva, 1958. The book also contains articles by the following Soviet scientists: L.S. Polak, L.D. Landau, A.F. Kapustinskiy, B.B. Golitsin and of the German physicists Max Laue (German Federal Republic) and Gustav Herz (GIR). The author of this article refers to the book "Ukazatel' osnovnykh trudov Makca Planka in the second of the Main Works of Max

Card 1/2

i literatury o nem" (Index of the Main Works of Max

A Book on a German Scientist

OSV/25-59-9-37/49

Planck and the Literature on him) by M.G. Novlyanskiy. There is 1 photograph and 1 Soviet reference.

Card 2/2

LEZHNEVA, O.A.

History of the discovery of electromagnetism and and electromagnetic induction. Trudy Inst. ist. est. i tekh. 22:132-148 '59.

(MIRA 12:10)

(Electromagnetism)

24(0) AUTHOR:

Lezhneva, O. A.

SOV/53-67-1-9/12

TITLE:

Hundredth Birthday Anniversary of Djagadis Chandra Bose (K stoletiyu

so dnya rozhdeniya (Dzhagadis Chandra Boze))

PERIODICAL:

Uspekhi fizicheskikh nauk, 1959, Vol 67, Nr 1,

pp 171 - 176 (USSR)

ABSTRACT:

Bose was born on November 30,1858, at Rarukhal (Dakka)(according to other sources he was born at the town of Maymensingh) in East Bengal. He studied at the English College of Saint Navier in Calcutta, and, after having taken the degree of Bachelor of Arts at the age of 20, he continued his studies in England at the universities of London and Cambridge. He studied physiology, embryology, botanics, chemistry, and physics (under Releigh). At the age of 25 he returned to Calcutta as Bachelor of Sciences and became Professor of

Physics at the Presidency College (1885). The successful verifi-

cation of the Maxwell theory of electrodynamics by Hertz

(Gerts) also gave rise to Bose's first publications and lectures.

Among others, he delivered a lecture, which attracted much attention, on the properties of electromagnetic waves (Liver-

Card 1/2

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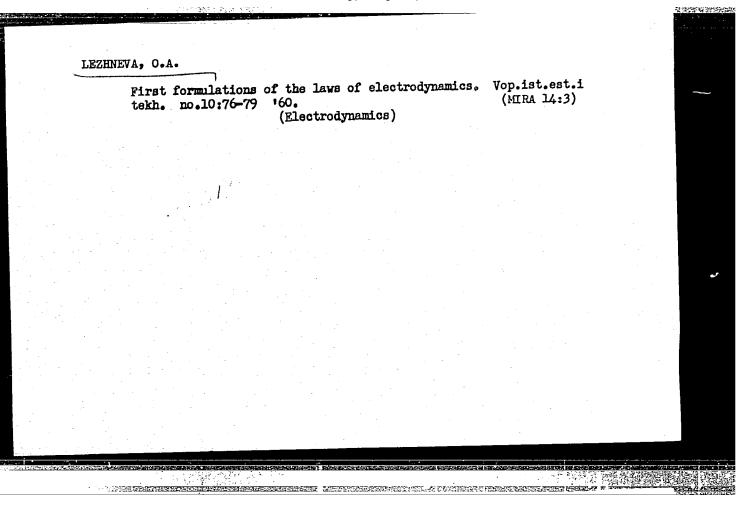
Hundredth Birthday Anniversary of Djagadis Chandra Bose)

SOV/53-67-1-9/12

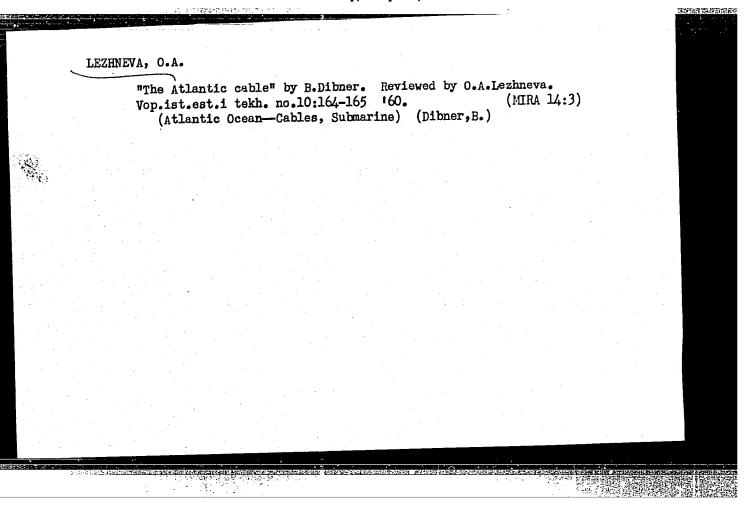
pool, 1896). He investigated the properties of individual parts of the electromagnetic spectrum, especially the millimeter range (absorption, reflection, refraction, propagation). About 1900 Bose worked in the field of plant physiology, and at the Congress of Physicists held at Paris he spoke about the molecular phenomena caused by electric stimulants in inorganic and living matter. Since that time, Bose remained faithful to plant physiology until he died (23/11/1937), in which field he was prominent. As delegate for India he attended numerous congresses in Europa and in America. On November 30, 1917, the present Bose Research Institute was inaugurated at Calcutta, of which the physicist D. M. Bose had been the director since 1947. In connection with Bose's research work the Russian scientists A. S. Popov, P. N. Lebedev, P. P. Lazarev, K. A. Timiryazev, A. F. Samoylov and M. V. Lomonosov are mentioned. There are 1 figure and 10 references, 4 of which are Soviet.

Card 2/2

CIA-RDP86-00513R000929810



CIA-RDP86-00513R000929810



LUK'YANOV, P.M.; IEZHNEVA, O.A.

Celebration in Kiev, Leningrad, and Arkhangel'sk of the 250th anniversary of the birth of M.V. Lomonosov. Vop. ist. est. i tekh. no.13:181-182 '62. (MIRA 16:5)

(Lomonosov, Mikhail Vasil'evich, 1711-1765)

LEZHNEVA, O.A., kand.fiziko-matem. nauk

Fresnel's light waves. Priroda 52 no.8:82-84 Ag '63.

(MIRF 16:9)

1. Institut istorii yestestvoznaniya i tekhniki AN SSSR, Mos.

(Light, Wave theory of) (Fresnel, Augustin Jean, 1788-1827)

KUDRYAVTSEV, P.S., prof., otv. red.; FIGUROVSKIY, N.A., prof., red.; IVANENKO, D.D., prof., red.; SPASSKIY, B.I., dots., red.; YAKOVLEV, V.A., dots., red.; MINCHENKO, L.S., kand. fiz.-mat. nauk, red.; BRAUDE, M.V., kand. filos. nauk, red.; LEZHNEVA, O.A., kand. fiz.-mat. nauk, nauchm. red.

[Problems on the history of physics and its teaching; reports and materials] Voprosy istorii fiziki i ee prepodavaniia; doklady i materialy. Tambov. Tambovskii pedagog. in-t. 1961. (MIRA 17:4)

1. Mezhvuzovskaya konferentsiya po istorii fiziki. 1st. Tambov.

Paydakova, Z.L.; Lezhneva, O.M.; Radzikhovskava, R.M.

Vaccination against rat and mouse sarcoma and Brown-Pearce carcinoma of rabbits. Vop.onk. 1 no.5:10-14 '55.

1. Iz otdela virusologii (zav. - L.A.Zil'ber) Instituta epidemiologii i mikrobiologii imeni N.F.Gamaleya (dir. - G.V.Vygodchikov). Adres avtorov: Moskva D-182, Shchukinskaya ul., d.33. Institut epidemiologii i mikrobiologii im. N.F.Gamaleya.

(VACCINES AND VACCINATION,

Brown-Pearce carcinoma & sarcoma in mouse & rata)

(MEOPLASMS, experimental,

Brown-Pearce carcinoma & mouse & rat sarcoma, vacc.)

(SARGOMA, experimental,

vacc.)

(MIRA 12:12)

KRYUKOVA, I.N.; LEZHNEVA, O.M. Oultivation of Rous sarcoma and Shope papilloma viruses in Enrlich ascites tumor and in M-1 rat sarcoma. Vop.onk. 5 no.7:3-5 159.

1. Iz otdela immunologii i onkologii (zav. - deystvitel'nyy chlen AMN SSSR prof. L.A. Zil'ber) Instituta epidemiologii i mikrobiologii im. N.F. Gamaleya AMN SSSR (dir. - prof. S.N. Muromtsev). Adres avtorov: Moskva, D-18a, Shchukinskaya ul., d.33, Institut epidemiologii i mikrobiologii im. Gamaleya AMN SSSR.

(PAPILLONA - virology) (SARCOMA - virology) (NEOPIASMS - experimental)

(MIRA 18:5)

LEZHNEVA, O.M. Effort to detect humoral antineoplastic antibodies in mice immune to isogenic sarcomas induced by methylcholanthrene. Biul. eksp. biol. i med. 59 no.4:90-91 Ap '65.

1. Otdel immunologii i onkologii (zav. - prof. L.A. Zil'ber) Instituta epidemiologii i mikrobiologii imeni Gamalei (dir. prof. O.V. Baroyan), Moskva.

SOURCE CODE: UR/0020/65/162/006/1440/1443 27112-66 ACC NR: AP6017476 AUTHOR: Lezhneva, O. M.; Iyevleva, Ye. S.; Zil'ber, L. A. (Active member AMI SSSR) 29 ORG: Institute of Epidemiology and Microbiology im. N. F. Gamalaya B (Institut epidemiologii i mikrobiologii) TITLE: Humoral antibodies against methylcholanthrene-induced sarcomas. SOURCE: AN SSSR. Doklady, v. 162, no. 6, 1965, 1/40-14/3 TOPIC TAGS: .antibody, mouse, tumor, x ray irradiation, fluorescence ABSTRACT: The authors report on the results of using the immunofluorescence method to detect humoral antibodies in mice repeatedly immunized with methylcholanthrene-induced sarcomas in a syngenic system. MX-6 C57 BL/10 Si and 1X-8 CC57W sarcomas were induced in mice of the C57B /1051 and CC57W strains, respectively, with methylcholanthrene. Antisera were obtained from mice of the same strains immunized with syngenic (isologous) tumors previously Xirradiated with a total dose of 15,000 r. When dead cells in smears were stained, all the cells exhibited very diffuse fluorescence. However, the diffuse fluorescence was much less intense in preparations treated with antiserum. Many cells had brilliant fluorescence in the form of a ring around the periphery. Nonspecific fluorescence was observed on sections after they were treated with normal sera. The fluoresence was concentrated Card 1/2

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around the periphery of the cells. The sections treated with mouse antiserum produced much less fluorescence. Thus, the indirect method of fluorescent		
antibodies enabled the authors to detect antibodies in the sera of mice		
The staining of tissue sections produced undesirable nonspecific fluorescence. The clearest results were obtained with living cells. Although fluorescent cells were always found in the control suspensions,		
Although fluorescent cells were always to the differences between the experimental and control cells were quite significant. Orig. art. has: 1 table. JPRS		The second second
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ARUTYUNOV, I.Kh.; STOLOV, A.I.; LEZHNEVA, V.A.

Efficient field crops growth stimulant from petroleum refinirg wastes. Nefteper. i neftekhim. no. 11:22-24 '63.

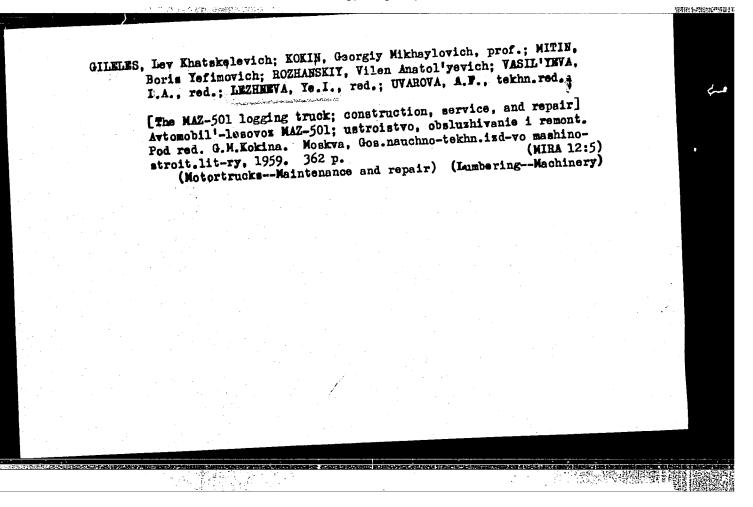
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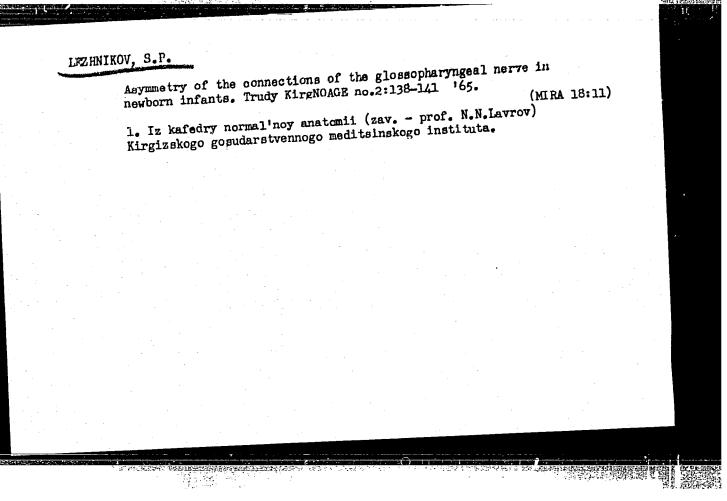
1. Groznenskiy neftemaslozavod i Grozneneskiy nauchnoissledovatel'skiy institut.

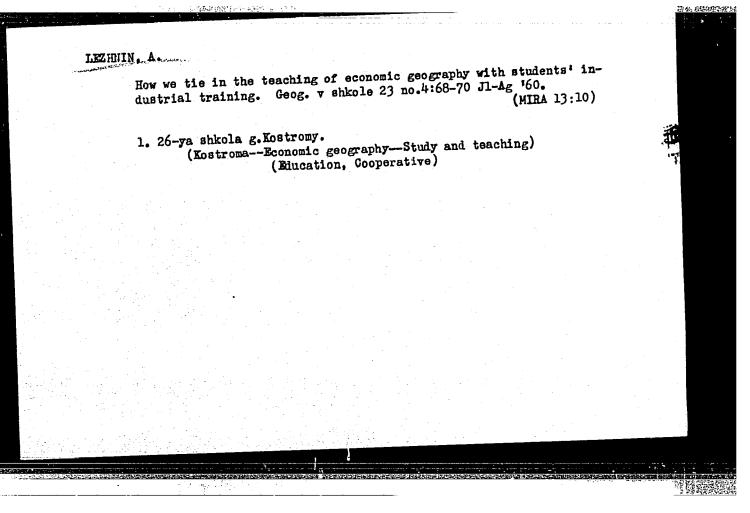
KOROTOHOSHKO, Mikolay Ivanovich; CHAMOV, A.N., insh.red.; LEZHNEVA, Va.I., red.; zd-vn; MODEL, B.I., tekhn.red.; EL'KIND, V.D., tekhn.red.

[Automobiles for difficult terrain] Avtomobili vysokoi prokhodimosti. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, (MIRA 11:3)

1957. 227 p. (Automobiles) (Tractors)







BUDNIKOV, V.I.; KAZANSKIY, Yu.P.; LEZHNIN, A.I.; YADRENKIN, V.M.

Bentonite of the Kuznetsk Basin. Trudy SNIIGGIMS no.25:36-44 '62.

(Kuznetsk Basin-Bentonite)

AUTHOP: Leznov, A. N.; Kirzhnits, D. A. Contribution to field theory with nor	nlocal interaction. IV. Questions of
convergence, causally, and gauge in the reff.	obaskov fiziki, v. 48. no. 2, 1965,
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and 6 Tolmazas. Fizicheskiy inst	itut im. P. N. Lebedeva		
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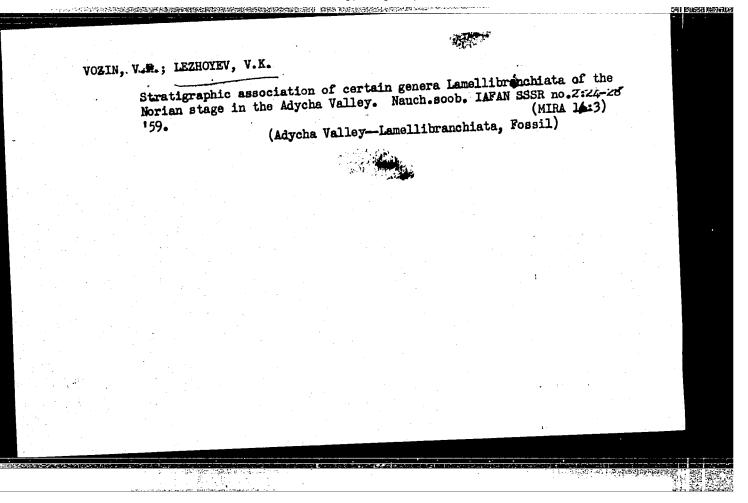
LEZHN'OVA, Ol'ga Aleksandrovna, kandidatna fizike-matematicheskite nauki i starshi nauchen sutrudnik

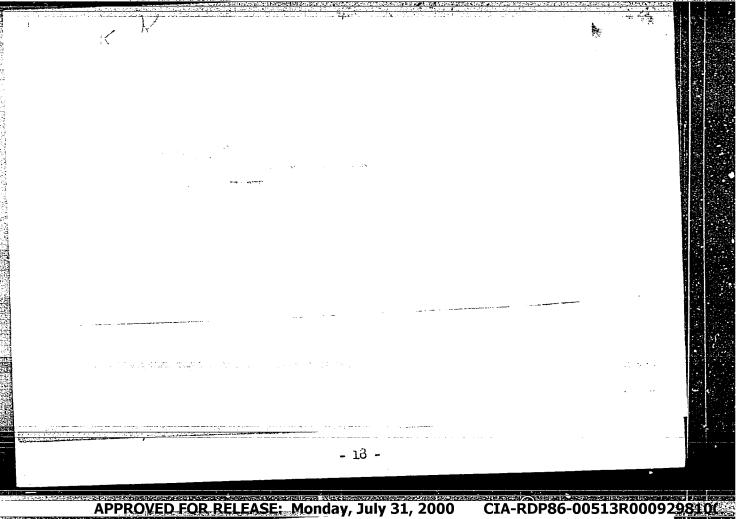
Physical investigations of Lemonosiv, in commemoration of the 250th anniversary of his birth. Fiz mat spisanie BAN 4.no.3:186-199 161.

1. Institut po istoriia na estestvosnaniete i tekhnikata pri AN na SSSR.

Artashes Grigorievich Malaev. Arkh. anat. gist. i embr. 36 no.4:
111-112 Ap '59.
(OBITUARIUS,
Nalaev, Artashes G. (Rus))

CIA-RDP86-00513R000929810





Animal Genetics. Genetics. POLAND / General Biology.

: Ref Zhur - Biologiya, No 4, 1959, No. 14452 Abs Jour

Author

: Leziak, Kazimierz

Inst Title : Studies on Retarded Pregnancy in Inbred Mice (Brother and Sister Matings). 1. Effect of Inbreeding on the Course of the Sexual Cycle

in Mice

: Folia Biol. (Polska), 1958, 6, No 1, 63-70

Abstract

: Out-bred females usually become pregnant after mating in the course of the first or second sexual cycle, while the period necessary for the pregnancy to occur is 4-5 times longer in inbred females of the same lineage. In order to determine the causes of this phenomenon, an experiment with three groups of

Card 1/3

APPROVED FOR RELEASE; Monday, July 31 an 2000 GenGIA de DP86-00513R00092

: Ref Zhur - Biologiya, No 4, 1959, No. 14452 Abs Jour

> white mice was carried out. 1) 43 females of the A lineage (the 18th generation of brother x sister crossbreedings); 2) 20 females of the B lineage (14th generation of brother x sister crossbreedings); 3) out-bred females. All the females were 3 months old and were kept under identical conditions. In 87 percent of the out-bred females the length of the sexual cycle did not exceed 4 days, and in 13 percent 5 or 6 days. In the course of 9 days of the observation period in 6.9 percent of the females of the A lineage, estrus did not occur; and in 6.9 percent, dioestrus did not occur. A sexual cycle lasting for up to 4 days was established in 42.5 percent of the females of the A lineage and in 57.8

Card 2/3

Studies on retarded pregnancy in mice from inbred matings (sib mating). II. Resorption of fetuses. Folia biol 7 no.3:267-275 '59. (EEAI 9:11) 1. Department of Experimental Biology of the Institute for Zootechny at Pulawy. (MICE) (FETUS) (INBREEDING) (PREGNANCY)

LEZIAK, Kazimierz

Percentual weight of the alimentary tract and the breast muscle in quick and slow growing chicken. Rocz nauk roln zootechn 84 no.3:631-637 '64.

1. Zootechnical Institute, Krakow.

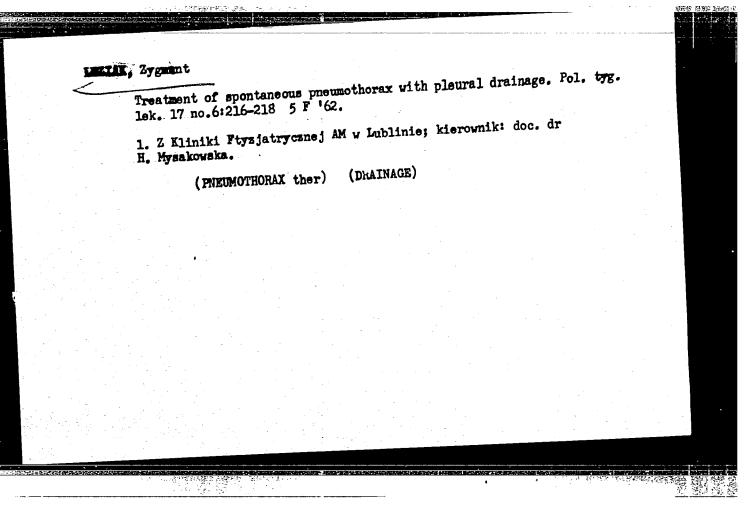
BRZEZINSKI, Jan; LANDECKA, Blanka; LEZIAK, Zygmunt; STOJALOWSKI, Kazimierz

Results of pneumothorax therapy in Lublin and in the Lublin
District. Gruzlica 24 no.8:653-658 Aug 56.

1. Z Kliniki Gruzlicy Pluc A.M. w Lublinie Kierownik doc. dr.

H. Mysakowska.

(PNEUMOTHORAX, ARTIFICIAL
compl. & results)



LEZIAK, Zygmunt; PRZEMYSKA, Barbara

Acute suicidal isonicotinic acid hydrazide poisoning. Pol. tyg. lek.

17 no.7:263-265 12 F 162.

1. Z Kliniki Ftyzjatrycznej AM w Lublinie; kierownik: doc. dr med. Helena Mysakowska.

(ISONIAZID toxicol) (SUICIDE)

CIA-RDP86-00513R000929810

LEZIN,	A. A.
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Functional Analysis

Theorems of inclusion and problem of the continuity of functions, Dokl. AN SSOR 88, No. 5, 1953.

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

SOROKO, V.V., kand.tekhn.nauk; IEZIN, N.Ya., inzh.

Small vibrating loader. Gor. zeur. no.10:66-68 0 '61.

(MIRA 15:2)

(Mining machinery)

VOL'FSON, F.I.; LEZIN, S.I.

Basic structural characteristics of lead-zinc deposits in the El'brus ore province. Geol. rud. mestorozh. no.1:55-69 Ja-F '60. (MIRA 13:7)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR. (Kuban Valley--Lead ores) (Kuban Valley--Zinc ores)

LEZIN, V., ingh.; LUSNIKOV, V., ingh.

New tanker. Rech. transp. 19 no.11:19-20 N '60. (MIRA 13:11)

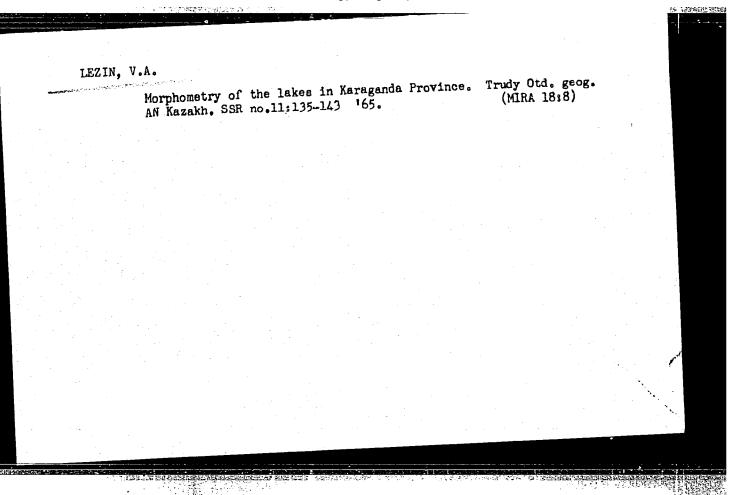
1. Verkhne-Volzhskaya inspektsiya Rechnogo Registra. (Shipbuilding)

(Tank vessels)

(Shipbuilding)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810



SEROV, Ye.P., kand. tekhn. nauk; SMIRNOV, O.K., kand. tekhn. nauk;

LEZIN, V.I., inzh.

Effect of mass flow rate on the stability boundary of a
flow in parallel connected steam generating pipes.

MEI no.63:153-162 '65.

MEI no.63:153-162 '65.

LEZIN, Vladimir Illich, inzh.; LIPOV, Yuriy Mikhaylovich, kand. tekhn. nauk, dots.; SELEZNEV, Mikhail Antonovich, kand. tekhn. nauk, dots.; SYROMYATNIKOV, Valentin Matveyevich, inzh.; SEROV, Ye.P., kand. tekhn. nauk, dots., red.; VOLOBUYEVA, I.V., red.

[Superheaters of boiler units] Paroperegrevateli kotel'nykh agregatov. Moskva, Energiia, 1965. 287 p. (MIRA 18:4)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810

119-3-1c/11:

Automatic Switch of an Impulse Line TITLE:

Lezin, V. M.

AUTHOR:

(Avtomaticheskiy vyklyuchatel' impul'snoy linii)

Priborostroyeniye, 1958, Nr 3, pp. 27-28 (USSR). PERIODICAL:

The switch disconnects a measuring instrument in the case when ABSTRACT:

the maximum value is reached in the tubular impulse line and switches it on again when the pressure in the line has decreased.

The switch consists of a bilateral valve with a diaphragm feed

line. It is illustrated on a diagram.

The switch (BA) has the following technical characteristics: Measuring range in mm of the water column: loo, 160, 250, 400,

630, 1000, 1600, 2500.

1 - 1,1 Switch pressure

Tolerable excess pressure in up to 3 the tubular line in kg/cm2

Total weight in kg There are 2 figures, and O references.

Library of Congress. AVAILABLE:

Card 1/1

2. Switches--Characteristics 1. Switches--Applications

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

TARASENKO, A., general-mayor inzhenerno-tekhnicheskoy sluzhby; LEZIN, V., zasluzhennyy ratsionalizator Gruzinskoy SSR

Driving, firing, control. Tekh. 1 vooruzh. no.4:73-75 Ap 164. (MIRA 17:9)

LEZIN, V.V., prof.; MINAYEV, L.M.; KOROL'KOV, V.A.; SHESTOVA, L.M., red.; MARTYNOVA, M.N., tekhn. red.

["Common Market" and workers of capitalist countries]
"Obshchii rynok" i trudiashchiceia kapitalisticheskikh stran. Moskva, Izd-vo VPSh 1 AON pri Tsk KPSS, 1963. 289 p.

(MIRA 17:2)

1. Moscow. Akademiya obshchestvennykh nauk.

KIM, G.F., otv.red.; VAYNTSVAYG, N.K., red.; LEZIN, V.V., red.; SAMSONOV, G.Ye., red.; TYAGAY, G.D., red.; SHAESHINA F.I., red.; ANGORA, T.M., red.izd-ve; GAMAZKOV, K.A., red.izd-ve; TSVETKOVA, S.V., tekhn.red.

[Southern Korea; economic and political conditions from 1945 through 1958] IUzhnaia Koreia; ekonomicheskoe i politicheskoe polozhenie, 1945-1958 gg. Moskva, Izd-vo vostochnoi lit-ry, 1959. 270 p. (MIRA 13:2)

1. Akademiya nauk SSSR. Institut vostokovedeniya.
(Korea, South--Economic conditions)
(Korea, South--Politics and government)

Category: USSR/Radiophysics - Radio-wave Reception

I-7

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4582

Author Title

: Elimination of "Reverse Operation" in Amplitude-Phase Detector Under

the Influence of Fluctuating Noise.

Orig Pub: Radiotekhn. i elektronika, 1956, 1, No 3, 329-334

Abstract : The author determines the probability of the occurrence of "reverse operation" (reversal of polarity of the output voltage) in an amplitude-phase detector, used for the detection of signals in phase radio telegraphy, under the influence of fluctuating noise. Analysis is carried out for the amplitude-phase detector circuit, proposed by D.V. Ageyev in 1948, and analyzed in detail by Yu. S. Lezin. It is proven, that if the level of fluctuation noise at the input of such a detector is several times smaller than the signal level, the probability of "reverse operation" being produced by this noise is negligibly small.

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vnis kind are a maves naving a length of more than 30 m. occurs only if perturbation causes so great a change of the phase-angle of the voltage in the electric current network, that the phase shift between the latter and the voltage exceeds $\frac{\pi}{2}$ on the anode of the previously opened tube. The voltage at the output of 12000 tector Arrivable 13800092 "inverse operation" is confirmed. Therefore investigation of the modifications "inverse operation" is confirmed. Therefore investigation of the modifications of the phase angle of the electric mains circuit on the occasion of perturbations forms the core of the investigation of those conditions on which "inverse operation" can be eliminated in an amplitude-phase-detector. At first the case in which only single impulse perturbations are active is investigated. The spectrum of the impulse perturbation within the domain of the transmission band of the receiver is assumed to be uniform. The bell-shaped impulse perturbation

electric mains circuit meets with unsurmounvante product of the velocity of its modification at the moment when perturbation occurs and the duration of the perturbation is assumed to be the approximated value of the modification of the phase angle. Next, the velocity of the modification of the phase angle of the voltage in the electric mains circuit is determined, after which the conditions for the complete elimination of "inverse operation" are examined. For this purpose it is necessary that the transmission band of the electric mains circuit of the amplitude-phase detector be at least from 7 to 9 times smaller than that of the receiver. In the course of a further investigation of the effect caused by group-impulse perturbations, it was found that in order to reduce the probability of the occurrence of "inverse operation" considerably, it is necessary, by all means available, to decrease the transmission band of the electric mains circuit of the detector with respect to that of the receiver. INSTITUTION:

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

LEZIN, Yu. S.

"Noise Immunity of Amplitude Radiotelegraphy in Reception by the Test Nethod," pp 21-24, ill, 4 ref

Abst: It is shown that the highest noise-free stability is observed for phase radiotelegraphy, less in the case of synchronous amplitude radiotelegraphy, and the least for ordinary amplitude radiotelegraphy.

Source: Trudy Gor'kovskogo Politekhn. In-ta im. A. A. Zhdanova Min. Vyssh. Obrazov. Radiotekhn. Fak. (Works of the Gor'liy Polytechnic Institute im. A. A. Zhdanov of the Ministry of Higher Education, Radio Engineering Faculty), Volume 12, No 2, Gorky, 1956

Sum 1854

LEZIN, Yu. S.

"On Noise Immunity With an Integral Method of Reception of Radiotelegraph Signals," pp 85-88, ill, 6 ref

Abst: Noise immunity of radiotelegraph communications with an integral method of reception of radiotelegraph signals is determined and compared with noise immunity in reception by a method of sampling in the middle of a simple message.

SOURCE: Trudy Gor'kovskogo Politekhn, In-ta im. A. A. Zhdanova Min. Vy. sh. Obrazov, Radiotekhn, Fak. (Works of the Gor'kiy Polytechnic Institute im. A. A. Zhdanov of the Linistry of Higher Elucation, Radio Engineering Faculty), Volume 12, No 2, Gorky, 1956

Sum 1854

AUTHOR:

Lezin, Yu. S.

269

TITLE:

Noise-suppression characteristics in various types of radiotelegraphy. (O pomekhoustoychivosti pri

razlichnykh vidakh radiotelegrafii).

第二章 第二章 第二章

PERIODICAL: "Elektrosvyaz'" (Telecommunications), 1957, No.4, April, pp.40 - 47 (U.S.S.R.)

ABSTRACT:

Interference problems in radiotelegraphy reception have been investigated earlier in (1-3). In (1) amplitude and phase transmission were compared assuming similar methods of detection; in (2) no adequate theoretical assumptions were made and in (3) signal-tonoise characteristics of amplitude and frequency-modulated signals were discussed very cursorily only. It is proposed, therefore, to investigate the problem more thoroughly for various methods of transmission, to compare S/N ratios for the same interference powers and to evaluate the gain in power for various types of transmission. As in (1-3) the author uses the method given by V. S. Melnikov (ref.5: Melnikov, V.S., Engineering methods of the development of radiotelegraphy communication systems, Compendium, "60 years of Radio", Svyaz'izdat, M., 1955, p.182). In this method, the final information relating to the transmitted signal is obtained by means of analysis of the receiver detector output voltage at

for same signal level and pass-bands for AM and FM, the signal-to-interference ratio at the output of FM detector should be 1.5 times that of the AM detector output. In phase-shift transmission, the noise produces distortion of the transmitted information when the phase of the

Noise-suprresion characteristics in various types of 269 radiotelegraphy. (Cont.)

phase-discriminator input signal is shifted by an angle

$$\frac{\pi}{2}$$
 < φ < $\frac{3\pi}{2}$

as shown in (9,10). The final expression for the distortion probability of phase-modulated signals is

 $P = \frac{1}{2} \left[1 - \Phi (N) \right]$

of the same form as that derived by G. F. Montgomery (3), where $\Phi(N)$ is the probability integral for

 $V = \frac{E_S}{\sqrt{2\sigma}}$, E_S being the amplitude of the "on"

or "off signals. The author concludes the article by a discussion of the advantages of the phase-shift transmission and states that the above analysis can be successfully applied to other types of binary-coded transmissions. 4 graphs illustrating the equations derived are given. There are 11 references, of which 9

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810

LEZIN, Yu.S.

Synthesis of filters optimal for pulses of a definite form. Mauch. dokl.vys.shkoly; radiotekh. i elektron. no.2:23-28 '58. (HIRA 12:1)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut i radiotekhni-cheskiy fakul'tet Gor'kovskogo politekhnicheskogo instituta imeni A.A. Zhdanova.

(Electric filters)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810

SOV/162-58-3-3/26 9(3) Lezin, Yu.S. AUTHOR: Optimum Filters for Pulse Signal Sequences (Ob optimal'nykh fil'trakh dlya posledovatel'nostey impul'-TITLE: snykh signalov) Nauchnyye dollady vysshey shkoly, Radiotekhnika i PERIODICAL: elektronika, 1958, Nr 3, pp 20-24 (USSR) The author investigates the construction of optimum ABSTRACT: filters for rectangular, trapezoidal and triangular signal pulse sequences and white noise. The optimum filtering effect is expressed as a criterion of a Fourier transformation /Ref 17. The author presents the spectrums of rectangular and trapezoidal pulse sequences. He shows block diagrams for filters of rectangular, trapezoidal and triangular pulse sequences. The calculation of the signal-to-noise ratio at the outlet of the individual filter elements, which were built in accordance with the author's work, are beyond the purpose of this paper and will be the subject of a future investigation. There are 3 block Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

Optimum Filters for Pulse Signal Sequences

SOV/162-58-3-3/26

diagrams, 2 graphs and 3 Soviet references.

ASSOCIATION:

Nauchno-issledovatel'skiy radiofizicheskiy institut i radiotekhnicheskiy fakul'tet pri Gor'kovskom politekhnicheskom institute (Scientific Research Institute) tute for Radio Physics and Radio Engineering Departmert at the Gor'kiy Polytechnical Institute)

SUBMITTED:

April 22, 1958

Card 2/2

CIA-RDP86-00513R000929810(**APPROVED FOR RELEASE: Monday, July 31, 2000**

sov/58-59-12-28014

90006

9.2550 Translation from: Referativnyy zhurnal, Fizika, 1959, Nr 12, p 217 (USSR)

AUTHOR:

Lezin, Yu.S.

TITLE:

On the Passage of a Pulse Signal and Noise Through the Optimum

Filter

PERIODICAL: Tr. Gor'kovsk. politekhn. in-ta, 1958, Vol 14, Nr 5, pp 45 - 51

ABSTRACT:

The square of the signal's peak value, the noise capacity and their ratio at the output of the optimum filter's various elements, vere computed. The coefficient of the signal transmission, the noise and the signal-to-noise ratio were determined by these elements. It is proven that at a sufficiently wide input spectrum, the increase in the signal-to-noise ratio by the optimum filter, is equal to twice the product of the input spectrum width by the duration of the pulse. This increase occurs as a result of a maximum match of the characteristics of the optimum filter elements. A diminution of the noise by the optimum filter is accomplished by

Card 1/2

the integrator causing a strong correlation of the noise oscillation,

SOV/58-59-12-28014
On the Passage of a Pulse Signal and Noise Through the Optimum Filter which, being substracted after the time, equal to the pulse duration, attenuates considerably. Conclusions, formed above, apply to the filter, optimum to the square radio-pulse, as well.

Card 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

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9(9) AUTHOR:

Lezin, Yu.S.

SOV/142-2-1-14/22

TITLE:

Noise Suppression in Duplex Phase Radio Telegraphy (O pomekhoustoychivosti pri dvukratnoy

fazovoy radiotelegrafii)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - radiotekh-

nika, 1959, Vol 2, Nr 1, pp 107-108 (USSR)

ABSTRACT:

Duplex phase telegraphy (dvukratnaya fazovaya telegrafiya - DFT) was suggested by A.A. Pistol'kors more than 25 years ago. There is a growing interest in phase radio telegraphy and in its practical realization in the "Kineplex" system Ref 47. The author therefore presents a calculation of the information distortion probability for the DFT, since such calculations were not included in the papers published on this subject. He demonstrates the signal and noise interaction in the DFT by a diagram, shown in figure 1. He determines the average information

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probability $P_{\mbox{DFT}}$ according to the formula:

Noise Suppression in Duplex Phase Radio Telegraphy

 $P_{DFT} = \frac{1}{2} (P_1 + 2P_{1+3} + P_3)$, whereby P_1, P_{1+3}, P_3

are the probabilities for coincidence of the sum vector ends in sectors AOB, BOC and COD, shown in figure 1. The author compares the DFT with the simplex phase telegraphy (odnokratnaya fazovaya telegrafiya - OFT) and other telegraphy systems. He emphasizes the advantages of the DFT over the OFT and the other systems, especially in case of a small signal-to-noise ratio. The author expresses his gratitude to Candidates of Technical Sciences N.T. Petrovich and N.P. Bobrov for their interest in his work. There are 1 diagram, 1 graph, and 6 references, 1 of which is English and 5 Soviet.

ASSOCIATION: Kafedra radiopriyemnykh ustroystv Gor'kovskogo politekhnicheskogo instituta imeni A.A. Zhdanova (Chair

Card 2/3

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SOV/142-2-1-14/22

The Noise Suppression in Duplex Phase Radio Telegraphy

of Radio Receiving Devices of the Gor'kiy Polytechnical Institute imeni A. Zhdanov)

SUBMITTED: June 12, 1958

Card 3/3

30130 S/194/61/000/007/055/079 D201/D305

6.9200 AUTHOR:

Lezin, Yu.S.

TITLE:

Threshold signals with incoherent build-up with an

exponential weighting junction

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 5-6, abstract 7 I52 (V sb. 100 let so dnya rozhd. A.S. Popova, M., AN SSSR, 1960, 79-83)

TEXT: Probabilities are determined of correct reception of false signalling of a periodical sequence of pulse signals with gaussian background noise, using an incoherent build-up arrangement with an exponential weighting function. The build-up arrangement consists of an incoherent amplitude detector and of an adding circuit with feedback. The feedback circuit has a delay-line of time T (the quasi-period of the pulse repetition frequency) and a transfer coefficient m < 1. At the output of the storing arrangement the voltage is

Card 1/3

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Threshold signals...

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$$U(t) = \sum_{k=0}^{\infty} u(t - kT) m^{k}, m = \exp(-\alpha T).$$

The determination of the exact law of distribution 3P (ZR) U(t) is complicated. The approximate solutions may be obtained by the cumulants of the n-th order of the input voltage. If the latter are known - the cumulants of the output voltage may be determined with the required accuracy of distribution law of the output voltage. The distribution law U(t) is presented either as the Edgeworth or Lagnerre function expansion. With square law detection the difference of U(t) expansion, compared with normal distribution is so great that the Edgeworth series converges slowly. The Lagnerre series permits m = 0.9 to limit the analysis to the first term only. In this case the integral distribution law U(t) is represented by χ^2 distribution, which makes it possible to determine the probability D of correct reception and F of the false signalling. With linear storage with m = 0.8 - 0.95 the U(t) is distributed nearly

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Threshold signals...

normally. This is why, in evaluating D and F only the first term of the Edgeworth series has to be taken into account. For a sufficiently high number of pulses N \gg 50 the threshold signals in the square-law and linear detection are practically identical. Abstracter's note: Complete translation

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Card 3/3

258115 S/142/60/003/006/005/016 E033/E135

AUTHOR:

Lezin, Yu.S.

TITLE:

Distribution of random voltages at the output of a non-coherent accumulator apparatus with exponential

weighting function

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Radiotekhnika, 1960, Vol.3, No.6, pp. 592-597

The object of this article is to find the laws for the distribution of the output voltages of a non-coherent accumulator with an exponential weighting function when the input consists of pulse trains accompanied by noise. The apparatus (Fig.1) consists of a non-coherent (amplitude) detector followed by the accumulator. The accumulator is an integrating device with a feedback loop consisting of a delay line (with a delay T approximately equal to the quasi-period of the expected pulsed signal) and a circuit with a transfer coefficient of m, the value of which is constant The latter prevents self-oscillation. The pulse transfer function of the accumulator is an exponentiallydecaying train of unit pulses, repeating over the time T: Card 1/5