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3

Voltage fluctuations in semiconductors. B. Davydov and B. Ginzburg, *J. Phys. (U. S. S. R.)* 7, 138-40 (1943) (in English).—Theoretical math. The mechanism of voltage fluctuations in electronic semiconductors is similar to the shot effect in vacuum tubes. The difference consists in the fact that the electrons do not flow freely from the cathode to the anode. Instead, each travels only a small distance. Fluctuations at different frequencies are evaluated. The applicability of Ohm's law is assumed. In the absence of current the mean square fluctuation is given by the well-known formula for the Johnson effect. In the presence of current it increases as its square, for larger current proportionally to the first power of the current. The results obtained are, in respect of their order of magnitude, in accordance with expl. data.
F. H. Rathmann

Leningrad Physics-techn. inst., Acad. of Sciences of the USSR

ASH 51A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
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GURAVICH, B.

Inst. of Engineering Physics, U.S.S.R. Academy of Sciences, Moscow, U.S.S.R.

"On the Question of the Tensometric Properties of Semiconductor Elements,"
Zhur. Tekh. Fiz., 16, No. 4, 1946

1A 15916

GUREVICH, B. A.

USSR/Electricity - Electric Power
Transmission
Power Loads
Apr 50

"Effect of Integrating Power Networks Upon the State of the Electrical Load," B. A. Gurevich, Power Eng Inst Imeni Krzhizhanovskiy, Acad Sci USSR, 8 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 4

Noncoincidence of maximums in power networks, with respect to hours, days, weeks, and months, creates a load effect which increases effectiveness of integration of power systems. Effect depends on a number of causes connected with structure and regime

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USSR/Electricity - Electric Power
Transmission (Contd)
Apr 50

(state) of network load, their geographic distribution, time of year, etc., and can reach 4 - 5%. Sharpening of peak portions of graphs describing network load will influence magnitude of load effect (sharpening appears as result of increase of power reserves in network system). Submitted 5 Nov 49 by Acad G. M. Krzhizhanovskiy.

15916

GUREVICH, B.
USSR (COG)

"Scientific-Technical Conference on Raising the Capacity Coefficient,"
(Electric Power Production) Energ. biul., No. 4, 1952

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

8(6)

PHASE I BOOK EXPLOITATION

SOV/2382

Avramenko, F.D., V.I. Veyts, B.A. Gurevich, V.I. Denisov, A.G. Zakharin,
N.A. Karaulov, I.S. Kolosov, N.N. Krachkovskiy, S.N. Kritskiy, M.M.
Lebedev, T.K. Leont'yeva, M.F. Menkel', A.S. Nekrasov, G.I. Rossiyevalkiy,
and B.I. Shvorin

Osnovnyye voprosy planirovaniya yedinoi energeticheskoy sistemy SSSR (Basic
Problems in Planning a Unified Power System for the USSR.) Moscow,
Izd-vo AN SSSR, 1959. 174 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Energeticheskii institut.

Eds.: G.M. Krzhizhanovskiy, Academician and V.I. Veyts, Corresponding
Member, USSR Academy of Sciences; Tech. Ed.: S.G. Markovich.

PURPOSE: This book is intended for government planning circles, scientific
research organizations and others interested in the electrification of the
USSR.

COVERAGE: The book examines the principal problems of a unified power system

Card 1/ 11

Basic Problems (Cont.)

SOV/2382

for the USSR as a basis for a program of government planning in that field. It is the result of several years of study conducted mainly at the Power Engineering Institute of the Academy of Sciences, USSR, in cooperation with power engineering institutes of the individual Soviet Republics, universities and learned societies, and in close cooperation with the Gosplan, USSR. These studies are concerned with basic problems of a scientific nature and problems of technical policy for the prospective development of a unified electric power system in the USSR. The problems outlined are applicable when the planned system reaches an output of 1000 billion kwhr's which is scheduled for 1970. One of the results of the plan is that since it is possible to obtain higher installed capacities in a shorter time and at lower capital outlays by the construction of steam turbine electric power plants rather than hydraulic ones, the emphasis is now on building steam-turbine plants with a simultaneous slowdown in hydro-power developments, excepting the most economical ones or those which are the only or the main sources of power in a given region or are dictated by other needs, such as irrigation, river control, etc. Nuclear plants will play a steadily increasing role in the development of a unified power system. Several problems of a purely scientific and technical nature were prompted by the study of a unified system: problems of nuclear power stations, the application of high-speed electronic computers for automatic control, regulation and protection

Card 2/ 11

SNV/2382

Basic Problems (Cont.)

of the system, the increasing use of semiconductors, the use of various types of fuels, etc. These problems were presented in two earlier publications of the Academy of Sciences: Nauchnyye osnovy sozdaniya i razvitiya yedinoy energeticheskoy sistemy SSSR (Scientific Bases in the Creation and Development of a Unified Power System in the USSR; Conclusions of a Coordinating Conference, Moscow, 1957); and Razrabotka nauchnykh osnov razvitiya energeticheskikh sistem i ikh ob'yedineniya yedinyu energeticheskuyu sistemy

(Working Out of Scientific Bases in the Development of Power Systems and Their Integration Into a Unified Power System, Series: Voprosy sovetskoy nauki, Moscow, 1958). The following persons participated in writing the book: F.D. Avramenko (Chapters 2 and 4); V.I. Veyts (Chapters 2, section 4 of Chapter 3, Chapter 4, section 1 of Chapter 6, Chapters 8 and 9); B.A. Gurevich (Chapter 1, section 1 of Chapter 7); V.I. Denisov (Chapters 4 and 8); A.G. Zakharin (section 2 of Chapter 7); N.A. Karaulov, S.N. Kritskiy and M.F. Menkel' (Chapter 5); N.N. Krachkovskiy (section 4 and 5 of Chapter 6); I.S. Koslov (section 8 of Chapter 1); M.M. Lebedev (Chapter 6, section 1 of Chapter 7, Chapters 9,10,11); T.K. Leont'yeva (section 1 of Chapter 3); A.S. Nekrasov (sections 2 and 3 of Chapter 9); G.I. Rossiyskiy (Chapter 3); B.I. Shvorin (Chapter 2). Those who participated in preparing the material were: M.M. Albegov, K.N. Bestuzheva, V.A. Bondarsva, M.S. Vdovchenko, A.L. Valikanov, Ye.A. Volkova, V.A. Gadiyeva, I.I. Kon'ya, D.N. Korobova, Yu.S. Kretinina, M.A.

Card 3/11

Basic Problems (Cont.)

SN/2382

Kurganova, V.I. Kutunova, A.R. Monastyrskaia, S.I. Ostrovskiy, Yu.A. Pereslegin, P.Ya. Pirkharka, A.G. Sambros. A.G. Kudinov prepared the book for printing. The authors express their thanks to I.M. Markovich, Doctor of Technical Sciences, V.I. Popkov, Corresponding Member of the Academy of Sciences, USSR, and M.A. Styrikovich, Corresponding Member of the Academy of Sciences, USSR, who revised the manuscript. The authors also thank G.M. Krzhizhanovskiy, Academician, for his scientific assistance. There are no references.

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PART ONE. SOME PROBLEMS IN PLANNING AND DESIGNING A UNIFIED POWER SYSTEM IN THE USSR	
Ch. I. Problems in Determining Prospective Conditions of Electric Load for a Unified Power System. Power Reserves	11
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Card 4/11	

GUREVICH, B.A.

Questions concerning methods for determining prospective load
operating conditions of transmission systems. Obshch. energ.
no.1:20-33 '59. (MIRA 13:2)
(Electric power distribution)

Gurevich, B. A.

AUTHORS: Veyta, V. I., Popkov, V. I., Markovich, I. M., Zakharin, I. G., Tolstov, Yu. G., Nikitin, B. I., Karaulov, K. A., Telscher, B. A., Gurevich, B. A., Lebedev, M. M., et al. 3/105/60/000/04/027/024 2007/2009

TITLE: On the 70th Birthday of N. N. Krachkovskiy

PERIODICAL: Elektrichestvo, 1960, Nr 4, p 73 (USSR)

TEXT: Nikolay Nikolayevich Krachkovskiy is one of the oldest Soviet power engineers. He started his activities in 1916 after finishing his studies at the elektromekhanicheskoye otdeleniye Petrogradskogo polytechnicheskogo instituta (Department of Electromechanics of the Petrograd Polytechnic Institute). From 1922 he worked at the planning and construction of electric networks in the Volkhovstroym, Eneprostroym, and Sredvolgostroym. He worked as an engineer in a leading position in the eastern regions of the USSR from 1942 to 1944. From 1944 to 1946 he was Director of the sektor sisten Leningradskogo otdeleniya gidroenergooproyskta (Sector of Networks of the Leningrad Branch of the All-Union Trust for the Design and Planning of Hydroelectric Power Plants and Hydroelectric Developments). His scientific and teaching activity began in 1930 at the Politekhnikum Putey soobshcheniya (Polytechnic Institute of Railroads), at the Leningradskiy politekhnicheskii institut (Leningrad Polytechnic

Card 1/2

Institute), and the Akademiya nauk SSSR (Academy of Sciences of the USSR). Since 1950 he was in a leading position at a Planning Institute, directing simultaneously research work at the Energeticheskii institut AN SSSR (Institute of Power Engineering of the AS USSR). Since 1954 he has devoted himself entirely to scientific work. He graduated as a Candidate in 1948. In 1953 he was approved as a Senior Scientific Collaborator of the Institute of Power Engineering of the AS USSR in the field of "Electric Networks". He published over 50 papers in the periodicals "Elektrichestvo", "Elektricheskiye stantsii", "Izvestiya AN SSSR", et al., and made a number of inventions. There is 1 figure.

Card 2/2

VEYTS, V.I.; POPKOV, V.I.; MARKOVICH, I.M.; ZAKHARIN, A.G.; TOLSTOV, Yu.G.;
NIKITIN, B.I.; KARAULOV, N.A.; TELESHEV, B.A.; GUREVICH, B.A.;
LEBEDEV, M.M.

Nikolai Nikolaevich Krachkovskii. Elektrichestvo no.4:93 Ap '60.
(MIRA 14:4)
(Krachkovskii, Nikolai Nikolaevich, 1890-)

GUREVICH, B.A.; PONKRATOV, B.K.; TSVETKOV, B.M.

Problem concerning the determination of the future industrial load
component of an electric power system. Obshch.energ. no.4:7-17
'61. (MIRA 14:8)

(Electric power distribution)

GUREVICH, B.A.; PERTSOVSKIY, I.M.; PONKRATOV, B.K.

Methodical problems on the determination of future demands of
electrified transportation on electric power systems. Obshch.
energ. no.4:124-139 '61. (MIRA 14:8)
(Electric power distribution) (Electric railroads--Current supply)

POPOV, V.I.; ZAKHARIN, A.G.; MARKOVICH, I.M.; TOLSTOV, Yu.G.;
GUREVICH, B.A.; KRACHKOVSKIY, N.H.; LEBEDEV, M.M.;
MIKHAYLOV, V.I.; DENISOV, V.I.; MOSKVITIN, A.I.;
MYEROVICH, E.A.; TELESHEV, B.A.; STEKOL'NIKOV, I.S.;
LAPITSKIY, V.I.; KHELYSTER, I.M.

Veniamin Isaakovich Veits; obituary. Elektrichestvo no.4:
91-92 Ap '61. (MIPA 14:8)
(Veits, Veniamin Isaakovich, 1905-1961)

GUREVICH, B.A.

Improving the design of the short-circuited rotor of the high-voltage electric motor of the hammer crusher. Koks i khim. no.9:59 '62. (MIRA 16:10)

1. Zhdanovskiy koksokhimicheskiy zavod.
(Crushing machinery--Electric driving)

GUREVICH, B.A.; PONKRATOV, B.K.

[Methodology for determining the loads on electric power systems of railroads for long-term plans] Metodika opredeleniia perspektivnykh zheleznodorozhnykh nagruzok v energosistemakh. Moskva, Nauka, 1965. 52 p.
(MIRA 18:7)

ZHUKOV, Vasilii Andreyevich; MESYATSEV, P.P., retsenzent; LICHENOV, A.I.,
inzh., retsenzent; SHIROKOVA, Z.G., inzh., retsenzent; GUREVICH,
B.D., inzh., retsenzent; BASTANOV, S.S., inzh., retsenzent;
GOLOVINA, K.N., inzh., retsenzent; BEL'TSEV, A.N., inzh., retsen-
zent; SOLOMATIN, V.V., inzh., retsenzent; MARSHEV, N.I., inzh.,
retsenzent; MARSHEV, N.I., inzh., retsenzent; BALASHEVA, T.I.,
inzh., retsenzent; GIRSHMAN, G.Kh., red.; ANGEL'EVICH, N.E., red.;
SOBOL'NYA, Ye.M., tekhn.red.

[Technology of the manufacture of radio equipment] Tekhnologia
proizvodstva radioapparatury. Moskva, Gos.energ.izd-vo, 1959.

636 p.

(Radio industry)

(MIRA 13:3)

1-1710

26580 --
S/129/61/000/008/013/015
E073/E535

AUTHOR: Gurevich, B. D., Engineer
TITLE: Influence of low temperature annealing on the plasticity of permalloys
PERIODICAL: Metallovedeniyei termicheskaya obrabotka metallov, 1961, No.8, pp.51-53
TEXT: The subject of the paper is the manufacture and heat treatment of electromagnetic screens, for which high nickel unalloyed permalloy (78.5% Ni, 0.30-0.8% Mn) and low nickel permalloy (40-50% Ni, 0.3-0.8% Mn) are being used. High nickel unalloyed permalloy has a low electric resistance and a high magnetic permeability, whilst low nickel permalloy has a higher electric resistance. The specimens used were made of cold rolled permalloy strip in the as-delivered state, the mechanical properties of which were as follows: hardness RA = 56-61, elongation 4.7-6.7%, UTS 70-115 kg/mm². Optimum heat treatment: 800 to 900°C in vacuum for one hour. Intermediate annealing at a higher temperature for longer durations

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X

Influence of low temperature ...

26580
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E073/E535

X

was inadvisable due to economic reasons. The plastic properties were adequate for further forming operations. The final heat treatment of the permalloy screens is usually at 1000 to 1200°C with a holding time in vacuum of 8 to 12 hours. However, an attempt was made to find a more economical heat treatment. To re-establish the permeability, it was found necessary to heat the screens to at least 1100°C. The quality of the screens was satisfactory after a cooling speed of 150°C/hour and a holding time of 30 min; a holding time of 40 min gave excellent results. This cooling speed was applied down to 650°C and, following that, cooling was in the furnace, from which they were discharged at 150 to 200°C. Increased cooling speeds did not improve the results. The following conclusions are arrived at: With increasing temperature of the vacuum anneal (for 1 hour) the elongation increases intensively with the annealing temperature up to 800°C. On increasing the temperature to 1100°C no increase in the relative elongation was observed even if the annealing time was increased to three hours. The hardness of the specimens

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Influence of low temperature ... 26580
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decreases with increasing temperature and soaking time at 1100°C and this decrease is by a factor of about 2 in comparison with the hardness of specimens in the as-delivered state. Compared to vacuum annealing, open air annealing at the same temperature, duration and cooling speed yields lower elongation values. There are 1 table and 1 German reference.

X

Card 3/3

GUREVICH, B.D., inzh.

Effect of low-temperature annealing on the plasticity of permalloys.
Metalloved. i term. obr. met. no.8:51-53 Ag '61. (MIRA 14:8)
(Fermalloys--Heat treatment) (Metals, Effect of temperature on)

VERNER, Ye.E., inzh.; UMANSKIY, A.M., inzh.; GUREVICH, B.D., inzh.

Use of powder metallurgy products in the manufacture of tractors.
Trakt. i sel'khoz mash. 32 no.10:42-44 0 '62. (MIRA 15:9)

1. Vladimirskiy traktornyy zavod (for Verner). 2. Moskovskiy
eksperimental'nyy zavod (for Umanskiy, Gurevich).
(Tractors) (Powder metallurgy)

LYUBETSKIY, Kh.Z.; GUREVICH, B.E.; FEDOTOVA, Z.G., red.; AGZAMOV, K.,
tekhn. red.

[Hygiene and toxicology of major insecticides and fungicides
used in agriculture especially in cotton growing] Gigiena i
toksikologiya vazhneishikh insektovfungitsidov, primeniayemykh
v sel'skom khoziaistve, glavnym obrazom v khlopkovodstve.
Tashkent, Gos.med.izd-vo M-va zdravookhraneniia UzSSR, 1961. 59 p.
(MIRA 14:12)

(Insecticides) (Fungicides)

USPENSKIY, F.M., kand. biol. nauk; SOMOV, I.A.; MUMINOV, A.M.,
kand. sel'khoz. nauk; IVANOV, Ye.N., kand. biol. nauk;
VASIL'YEV, A.A., kand. sel'khoz. nauk; SOLOV'YEVA, A.I.,
kand. sel'khoz. nauk; ZAPROMETOV, N.G., doktor sel'khoz.
nauk; YAKHONTOV, V.V., doktor biol. nauk; KAPUSTINA, R.I.;
STROMM, N.G.; POLEVSHCHIKOVA, V.N., kand. sel'khoz. nauk;
KARIMOV, M.A., doktor biol. nauk; NOSKOV, I.G., kand. sel'-
khoz. nauk; KHODZHAYEV, A.Kh.; ALEYEV, B.G., kand. sel'khoz.
nauk; YAKHONTOV, V.V., doktor biol. nauk; STEPANOV, F.A.;
LYUBETSKIY, Kh.Z., kand. med. nauk; GUREVICH, B.E.;
KONDRAT'YEV, V.I.; SUDARS, L.P.; KOSTENKO, I.N., Zasl. agr.
Uzbekskoy SSR; GORELIK, I.M., red.; BAKHTIYAROV, A., tekhn.
red.

[Manual on controlling the pests, diseases and weeds of cot-
ton, corn, and legumes] Spravochnik po bor'be s vreditel'ny
i bolezniami khlochatnika, kukurusy i bobovykh kul'tur. Izd.2.,
perer. i dop. Tashkent, Gos.izd-vo UzSSE, 1963. 325 p.

(MIRA 16:5)

(Field crops—Diseases and pests)
(Weed control)

BALTER, M.A., kand.tekhn.nauk; GUREVICH, B.G., kand.tekhn.nauk;
TUROVSKIY, M.L., inzh.

Stability of the effect of surface hardening under the action of
static overloads. Vest.mashinostr. 44 no.3:21-26 Mr '64.
(MIRA 17:4)

KRASIL'NIKOVA, N.A.; SHMEL'KOVA, Yu.F.; GUREVICH, B.G.; OBCLENSKAYA, G.A.

Approximate estimation of the phosphorite potential of some
regions of Siberia and the Far East. Sov.geol. 4 no.9:82-95
S '61. (MIRA 14:11)

1. Gosudarstvennyy institut gornokhimicheskogo syr'ya.
(Siberia--Phosphorites)
(Soviet Far East--Phosphorites)

ACCESSION NR: AP4026214

S/0122/64/000/003/0021/0026

AUTHORS: Balter, M. A. (Candidate of technical sciences); Gurevich, B. O. (Candidate of technical sciences); Turovskiy, M. L. (Engineer)

TITLE: Duration of the strengthening effect of surface hardening under static overloads

SOURCE: Vestnik mashinostroyeniya, no. 3, 1964, 21-26

TOPIC TAGS: fatigue strength, surface hardening, cold rolling, static overload, steel 30KhGSA

ABSTRACT: The effects of static overloads on the fatigue strength of surface hardened samples were investigated experimentally using tubes 450 mm long, 30 mm diameter, and 8 mm thick, made of 30KhGSA steel heat-treated to HRC 32-34, 38-46 and 46-52. After obtaining fatigue curves for these hardnesses, similar samples were cold-rolled in a hydraulic three-roll device with a roll profile radius of 5 mm with a rolling force of 1000 kg (for HRC 38-52) and 800 kg (HRC 32-34). It was found that for static preloading in the same direction as the cyclic loads, static overloads did not affect the fatigue strength of the low-hardness steels. For the harder steels a static load of σ_{el} (elastic limit) prior to fatigue tests

Card 1/2

ACCESSION NR: AP4026244

increased the fatigue strength, while a preload of $\approx 1.4 \sigma_{e1}$ decreased the fatigue strength by $\approx 29\%$ (based on 10^6 cycles). Static preloads in the opposite direction to the fatigue loading always decreased the fatigue strength. At a preload of $0.9 \sigma_{e1}$ the fatigue strength of cold-rolled samples was even lower than the fatigue strength of untreated samples. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 20Apr64

ENCL: 00

SUB CODE: MM

NO REF SOV: 005

OTHER: 001

Card 2/2

GUREVICH, B.G., kandidat tekhnicheskikh nauk

Strengthening screw threads by rolling. [Trudy] TSNIITMASH no.70:
86-98 '55. (MLRA 8:11)

(Screw cutting)

GUREVICH, B. G. and YUR'YEV, S. F.

"Role of residual stresses in raising limit of endurance of steel in chemicothermal treatment" a paper presented at International Conference on Fatigue of Metals, London, Sep. 56.

DSI. No. 103

GUREVICH, B.G., kand.tekhn.nauk; TRUNINA, Ye.V., inzh.

Increasing the fatigue strength of springs for high-speed diesels
by nitriding. *Energomashinostroenie* 4 no.4:36-38 Ap '58. (MIRA 11:?)
(Springs (Mechanism)) (Case hardening)

GUREVICH, B.G., kand. tekhn. nauk.

Mechanical properties of some plastics used as construction
materials. Vest. mash. 39 no.1:85-87 Ja '59. (MIRA 12:1)
(Plastics--Testing)

SECRET
TITLE: Books (Knigi)

121-2-19/20

PERIODICAL: "Stanki i Instrument" (Machine Tools and Tools), 1957,
No.2, pp. 44 (U.S.S.R.)

ABSTRACT: Gurevich, B.G., "The strengthening of threads by surface rolling" (Uprocheniye rez'by obkatkoy), AN SSSR, Moscow, 1956, 14 pages.

Ivanov, G.P. et al., "The effects of the electric spark hardened layer on the wear resistance and the fatigue strength of components" (Vliyaniye sloya elektroiskrovoy obrabotki na iznosostoykost' i ustalostnuyu prochnost' detaley). "The improvement of the cavitation resistance of components by electric spark hardening" (Povysheniye kavitatsionnoy stoykosti detaley elektroiskrovym uprochneniyem). "The thermal stability of the electric spark hardened layer in tempering" (Teplostoychivost' sloya elektroiskrovogo uprochneniya pri otpuske), AN SSSR, Moscow, 1956, 24 pages.

Davidenkov, N.N. (Editor). "Problems of design, manufacture and service of springs" (Voprosy proyektirovaniya, izgotovleniya i sluzhby pruzhin). Collection of articles. Mashgiz, Moscow-Leningrad, 1956, 267 pages.

1/4 Pavlov, Z.P. et al. "Machine for the testing of cylindrical

Books (Cont.)

121-2-19/20

rollers for fretting fatigue" (Mashina dlya ispytaniya tsil-indricheskikh rolikov na kontaktnuyu ustalost'). "A recording instrument for the tracing of compression, tension and relaxation diagrams" (Registriruyushchiy pribor dlya zapisi krivikh szhatiya, rastyazheniya i relaksatsii), AN SSSR, Moscow, 1956, 15 pages.

Polyakov, D.G. and Meyerovich, I.M. "Machines for strength tests of gear couplings and universally hinged shafts" (Mashiny dlya isputaniya na prochnost' zubchatykh muft i universal'nykh shpindeley), AN SSSR, Moscow, 1956, 13 pages.

Sergeyev, N.A. "Improvement of the productivity of labour in fitting and assembly work" (Povysheniye proizvoditel'nosti truda pri slesarnykh i sborochnykh rabotakh), Mashgiz, Moscow-Leningrad, 1956, 288 pages.

Proshin, G.A. "The electric spark treatment of machine components in repair work" (Elektroiskrovaya obrabotka detaley mashin pri remonte), Mashgiz, Kiev, Moscow, 1956, 111 pages.

2/4 Anfimov, M.I. "Designs of reducing gears" (Konstruktsii reduktorov). Album. Mashgiz, Moscow-Sverdlovsk, 1956, 220 pages.

Books. (Cont.)

121-2-19/20

Belyayed, P.G., "A universal fixture for the centreless grinding of cylindrical components" (Universal'noye prisposobleniye dlya shlifovaniya tsilindricheskikh detaley bez tsentrov), AN SSSR, Moscow 1956, 15 pages.

Bykov, P.B. and Khankin, L.D., "The reduction of auxiliary time in lathe work (Sokrashcheniye vspomogatel'nogo vremeni pri rabote na tokarnykh stankakh), Mashgiz, Moscow, 1956, 167 pages.

Nadeinskaya, E.P., "Investigation of cutting tool wear by means of radio-active isotopes" (Issledovaniye iznosa rezhushchego instrumenta s pomoshch'yu radioaktivnykh izotopov), 2nd edition Mashgiz, Moscow, 1956, 164 pages.

Shal'nov, V.A. "High speed grinding of structural alloy steels" (Skorostnoye shlifovaniye legirovannykh konstruktsionnykh staley), Oborongiz, Moscow, 1956, 128 pages.

Petrusevich, A.I. et al., "The dynamic loads in gear transmissions with straight spur gears" (Dinamicheskiye nagruzki v zubchatykh peredachakh s pryamozubymi kolesami), AN SSSR, Moscow, 1956, 134 pages.

3/4

Books. (Cont.)

121-2-19/20

Gorbunov, E.K. and Kiselev, M.A. "Computation of the numerical strength of automatic screw machine setters (Raschet chislennosti naladchikov tokarnykh avtomatov), AN SSSR, Moscow, 1956, 13 pages.

"Fixtures for grinding work" (Prisposobleniya dlya shlifoval'nykh rabot). Collection of articles. AN SSSR, Moscow, 1956, 28 pages.

Raykher, S.A., "Safety engineering in heat treatment shops" (Tekhnika bezopasnosti v termicheskikh tsekhakh), Mashgiz, Moscow, 1956, 144 pages.

AVAILABLE:

4/4

GUREVICH, B.G., kand.tekhn.nauk

Manufacturing parts of glass-reinforced plastics. Mashinostroitel'
no.5:30-32 My '62. (MIRA 15:5)
(Glass reinforced plastics)

L 12968-63

BER/EMP(j)/EPF(c)/EWT(m)/BDS. AFFTC/ASD. Pa-4/Pc-4/Pt-4 RM/WW

ACCESSION NR: AP3000401

S/0191/63/000/005/0040/0046

73
72

AUTHOR: Gurevich, B. G.; Strelyayev, V. S.

TITLE: Study of the strength characteristics of some glass-fiber compositions

SOURCE: Plasticheskiye massy*, no. 5, 40-46

TOPIC TAGS: strength characteristics, glass-fiber compositions

ABSTRACT: Lack of adequate detailed data motivated these studies on the tensile, bending, and shear strengths of a number of glass-fiber compositions (AG-4S, R-25S, R-49S, 33-18S, KAST-V) with various thermosetting binders. In all cases, the ratio of binder to glass fiber (5-7 micra in diameter) was 30:70, and both flat and cylindrical samples of the molding compounds were tested at various temperatures. The modulus of elasticity (E), Poisson coefficient, maximum tensile strength (Sigma sub B), and relative elongation at break (Epsilon sub B) were determined for each formulation, as was the correlation between Sigma sub B and E sub 0 (E sub 0 calculated at same stress, Sigma sub 0 = 4 kg/sec/mm sup 2, for all materials) and the effect of thermal treatment. At higher temperatures (up to 250C), the nonlinearity of the correlation of Sigma and E with Epsilon was more pronounced than at 150-170C. The maximum strength of R-49S was almost doubled by treatment at 150-170C, the modulus of elasticity increased by about 12%, but thermal treatment has little effect on

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ACCESSION NR: AP3000401

the strength of the other formulations tested. All of the materials had very low Poisson coefficients (0.04-0.15). Susceptibility to concentrated pressure under short- and long-term static stress was tested on unnotched and notched flat samples: in both cases, strength decreased with an increase in cross-section area. At increased temperatures, the influence of scale effect and pressure concentration was reduced. The strongest of the materials tested was 33-183 (epoxy resin base modified with polyurethane): at all concentrations of pressure, it showed a relatively slight increase in susceptibility to stress with time, averaging 50-60% of its maximum short-term strength after 10,000 hours at 20C. Orig. art. has: 12 figures, 5 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 10Jun63

ENCL: 00

SUB CODE: MA

NO REF SOV: 005

OTHER: 010

Card 2/2

KRASIL'NIKOVA, N.A.; GUREVICH, D.G.; BLISKOVSKIY, V.S.; SEMEL'KOVA, Yu.F.;
OBOLENSKAYA, G.A.

Phosphorites of the Altai-Sayan fold area. Lit. i pol. iskop.
no.4:161-181 JI-Ag '65. (MIRA 18:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-
khimicheskogo syr'ya, Moskva.

GUREVICH, B. I., BLINTSOVASKAYA, R. A., GARANINA, S. A., KOLOBIKHINA, S. A.

"Clinic, early diagnosis, and treatment of salmonellosis
(mouse typhus) in young children."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

L 60447-65 EWT(a)/T IJP(c) GS

ACCESSION NR: AT5017386

UR/0000/64/000/000/0084/0085

AUTHOR: Gurevich, B.I. (Krasnoyarsk); Burtsev, R. V. (Krasnoyarsk)

15
BT/

TITLE: Digital correlation meter for the evaluation of correlation functions of linearly correlated random processes

SOURCE: Konferentsiya po avtomaticheskomu kontrolyu, i metodam elektricheskikh izmereniy, 3d, Novosibirsk, 1961. Avtomaticheskij kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: Tsifrovyye izmeritel'nyye pribory. Elektricheskiye izmereniya neelektricheskikh velichin. Ustroystva avtomaticheskogo kontrolya i upravleniya v promyshlennosti (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Digital measuring instruments. Electrical measurements of nonelectrical quantities. Devices for automatic control and regulation in industry). Novosibirsk, Redizdat Sib. otd. AN SSSR, 1964, 84-85

TOPIC TAGS: digital correlometer, linearly correlated random process, correlation function

ABSTRACT: Existing correlation meters determine the correlation function by means of the equation

$$\mu(\tau) = \frac{1}{n} \sum x_i y_i \quad (1)$$

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ACCESSION NR: AT5017386

where x_i and y_i are the values of the random functions $X(t)$ and $Y(t)$ within the cross section separated by time intervals τ . The authors of the present paper derive the expression for two admittedly linearly correlated random processes

$$\mu(\tau) = \frac{x_i}{n x_i} \sum y_i \quad (2)$$

which shows that for the determination of one point of the correlation function of a linearly correlated random process it is sufficient to carry out n additions and to multiply the resulting sum by a constant factor. The automatic device realizing Equation (2) is significantly simpler than the one operating according to (1), and the block diagram of such a digital correlometer is given. The proposed method may be extended to random quantities whose relation is of the $y_i = ax_i^n$ type. Orig. art. has: 4 formulas and 1 figure.

ASSOCIATION: none

SUBMITTED: 11Nov64

NO REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: MA, DF

dm
2/2
Card

GUREVICH, B.Kh.

Behavior and cybernetics. Prim. mat. metod. v biol. no.2:
47-51 '63. (MIRA 16:11)

*

GUREVICH, B. Kh.

Properties of Circuits

VOLTAGE FLUCTUATIONS IN SEMICONDUCTORS -
B. I. Davydov & B. Kh. Gurevich. (*Journ. of
Tech. Phys.* [in Russian], No. 1, Vol. 12, 1942,
pp. 34-35)

It is pointed out that the mechanism of voltage fluctuations in semiconductors is similar to the shot effect in valves, the difference being that electrons are liberated by thermal movement not only on a cathode, but along the whole length of the semiconductor, and that these electrons travel only short distances. A mathematical discussion of the phenomenon is presented. It is shown that when no current passes through the semiconductor the mean square of the fluctuations can be determined from the well known formula (1) for the Johnson effect. When a small current passes through the semiconductor this value rises in proportion to the square of the current for small currents and in proportion to the current for larger currents. These conclusions are broadly in accordance with experimental results. It was assumed in the discussion that Ohm's law remains valid for the phenomena under consideration.

GUREVICH, B. Kh.

"Method of Chronic Electrographic Investigations on Animals by Tapping Biopotentials with a Point Electrode from Two Zones of the Cortex," Fiziol. Zhur. SSSR, vol. 34, No. 2, 1948.

GUREVICH, B. Kh.

"Conditions Essential in the Development and Retention of Dominant Respiratory Rhythm on the Electrocardiogram of a normal Rabbit," Fiziol. Zhur. SSSR, 34, No. 3, 1948.

(Inst. Evol. Physiol. and Path. of Higher Nervous Activity im I. P. Pavlov,
Acad. Med. Sci. USSR)

27322. GURSEVICH, B. M. - Lokal'nye sensorny impul'sy v zritel'noy kore mozga normal'nykh zivotnykh. Doklady akad. Nauk SSSR, novaya seriya, T. LXVIII, Nol, 1949, S. 193-95.--Bibliogr: 0 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

Local Sensory Impulses in the Vision Center of the Brain in Normal Animals

(Inst. Evol. Physiol. and Pathol. Higher Nervous System im I. P. Pavlov, Acad. Med. Sci. USSR

GUREVICH, B. KH.

24243 GUREVICH, B. KH. O korrelyativnoy svyazi kortikal'nogo a - ritma s dykhatel'nyy ritmom u normal'nogo krolika. Fiziol. zhurnal SSSR, in. Sechenova, 1949, No. 4, S 373-79. - Bibliogr: S. 376-79.

SO: Lotopis, No. 32, 1949.

"Correlation of the Cortical Rhythm and the Respiratory Rhythm in a Normal Rabbit,"

(Inst. Evol. Physiology and Pathology of Higher Nervous Activity in Acad. I.P.Pavlov,
Acad. Med. Sci. USSR)

Index, Medicine - Physiology

FD-1336

GUREVICH, B. Kh.

Card 1/1 : Pub 33-16/25

Author : Gurevich, B. Kh.

Title : Electro-encephalograph recordings in systematic experiments on dogs.

Periodical : Fiziol. zhur. 4, 484-486, Jul/Aug 1954

Abstract : Electro-encephalograph was used in systematic experiments on dogs to record bioelectric currents developed in the cortex by brain action. Electric activity (brain waves) of specific sections of the brain may be obtained during shunting of potentials from the surface of the cortex by means of extradural electrodes. Diagram. Graph. One non-Soviet and six Soviet references.

Institution : Institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR, Leningrad

Submitted : May 14, 1953

GUREVICH, B. Kh.

USSR/ Medicine - Experimental Neurology

Card 1/1 Pub. 22 - 40/40

Authors : Glezer, V. D.; Gurevich, B. Kh.; and Leushina, L. I.

Title : Differences in the electrical activity of the brain of dogs with various types of higher nervous activity

Periodical : Dok. AN SSSR 99/3, 485-488, Nov 21, 1954

Abstract : Five dogs of definite typological characteristics were investigated to determine the differences in the electrical activity of their brain. The registration of the biotics was carried out on three zones of the dorsal surface of the cerebral cortex of one of the larger hemispheres - frontal, parietal and occipital. The results obtained are shown in electroencephalographs. Two USSR references (1951). Graphs.

Institution: Academy of Sciences USSR, The I. P. Pavlov Institute of Physiology

Presented by: Academician K. M. Bykov, June 28, 1954

GUREVICH, B. Kh.

GUREVICH, B. Kh.; KOLESNIKOV, M. S.

Determining the type of higher nervous system in animals free to move about. *Fiziol.shur.* 41 no.3:339-345 My-Je '55. (MLRA 8:8)

1. Laboratoriya eksperimental'noy genetiki vysshey nervnoy deyatel'nosti Instituta fiziologii im. I.P. Pavlova AN SSSR, Leningrad.

(CENTRAL NERVOUS SYSTEM, physiology,
higher nervous funct., determ.of type in free
roaming animals)

GUREVICH, B. Kh.

AUTHOR: Gurevich, B. Kh., Candidate of Physico-Mathematical Sciences. 30-9-6/48

TITLE: Cybernetics and Some Problems of the Modern Physiology of the Nervous System (Kibernetika i nekotoryye voprosy sovremennoy fiziologii nervnoy sistemy).

PERIODICAL: Vestnik AN SSSR, 1957, Vol. 27, Nr 9, pp. 31-40 (USSR).

ABSTRACT: Since the publication of Norbert Wiener's paper "Cybernetics or Control and Communication in Animal and Machine" the interest for this field of science continuously grows. The author of this paper at first deals with Pavlov's theory of the conditioned reflexes, where he makes the attempt to bring some problems of the physiology of nerves in connection with the fundamental principles of cybernetics. The cybernetics teaches that the fundamental principle of automatic regulation consists in the fact that the motion and the function of larger masses or the transmission of large quantities of energy takes place by information-carriers or transmitters of commands. Then the author deals with the papers by soviet scientists, such as Samoylov, A. F., Bernshteyn and others on the universal distribution of ring-shaped excitation-rhythms in the organism, and on the coordinate activity of motion of living organisms whose suitable character of orientation is

Card 1/2

Cybernetics and Some Problems of the Modern Physiology of the Nervous System.

30-9-6/48

hardly imaginable without the presence of opposite connections. The information-theory is a strictly mathematical discipline (the papers by Khinchin, A. Ya., Kolmogorov, A. N. and others are described; see figures 2 and 3). Finally the author states that it has to be expected that further contact of the cybernetics with the physiology of the nervous system may lead to new data. There are 3 figures.

AVAILABLE. Library of Congress.

Card 2/2

USSR/Human and Animal Physiology - Sensory Organs.

T-11

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32259

Author : Gurevich, B.Kh.

Inst :

Title : Simple Metallic Electrode for Recording Electro-Retina-grams in Humans.

Orig Pub : Fiziol. zh. SSSR, 1957, 43, No 3, 261-283.

Abstract : One end of a thin silver band is fastened to the skin near the eye; the other end to the lower eyelid. The electrode did not cause any painful sensations.

Card 1/1

- 156 -

GURVICH, B.Kh.

Electrophysiological studies of experimental animals during rotation.
Fiziol.zhur. 43 no.4:367-370 Ap '57. (MLRA 10:10)

1. Laboratoriya fiziologii zritel'nogo analizatora Instituta fiziologii im. I.P.Pavlova AN SSSR, Leningrad.

(ELECTROPHYSIOLOGY,

electrophysiol. studies performed during rotation of
subject (Rus))

(ACCELERATION,
same)

.Kh

20-4-56/60

AUTHOR: Gurevich, B. Kh.,

TITLE: On the Fixing of the Eye with the Aid of Muscle Sense and on the Possible Role of Proprioception on the Occasion of Visual Fixation (Ob ustanovke glaz na osnove myshechnogo chuvstva i o vozmozhnoy roli propriotseptsii v zritel'noy fiksatsii)

PERIODICAL: Doklady Akad. nauk, SSSR, 1957, Vol. 115, Nr 4, pp. 829-832, (USSR)

ABSTRACT: The problem of proprioception of the exterior eye muscle is of principal importance in the general theory of sight. A number of scientists of the last decades affirmed that doubtlessly the muscle sense takes part in the acts of seeing. Also the neurology of the eye moving devices is interested in the solution of this problem. At present the proprioceptors of these muscles are known and their real importance for the visual perception is recognized. Presently in some publications, however, the role of proprioception is either denied on the basis of physiological arguments or even not considered at all. It seems that the turning of the eye in a certain angle without optic stimuli as well as the fixation and the keeping of the optic axes in the direction concerned serve as criterium for the participation of the muscle sense on the occasion of the optic fixation under the same conditions. The experiments were carried out in the dark with an objective recording of the conjugated eye movements by means of electrooculography. At the beginning of the experiment the persons experimented upon turned their

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20-4-56/60

On the Fixing of the Eye with the Aid of Muscle Sense and on the Possible Role of Proprioception on the Occasion of Visual Fixation.

eye in a certain angle when the binocular fixed luminous points changed. A 400 Hz sound signals the appearance of a side point located by a certain angle on the right of the central point, to which the person experimented upon is to direct his eyes. After 2-3 seconds the side point disappeared and the person again fixed the central point. On the occasion of the experiment proper the side point was not illuminated a fact which the person did not know. In spite of it he turned his eyes to the right and, after having found no luminous point, he was according to the instruction to fix his eyes for 2-3 seconds in the direction where according to his opinion the side point was located. He then switched on the side point himself, fixed it, switched it off and directed his eyes to the central point. It is obvious that in the case of an unpreciseness of the fixing of the eye at the time of the switching on of the side point the eyes had to perform a corresponding additional turn; in the case of an exact fixing of the eyes (Fig. 1b-g) this turn would be superfluous. Moreover, the action of the precise fixing of the eye muscles is described. In a total of more than 1500 eye fixings of 15 persons at turns of 6, 5, 12, 20, 25, 35, and 40° to the right the precise muscle fixings of the eyes (i.e. with an error above the limit measuring accuracy $\pm 30'$) took

Card 2/3

20-4-56/60

On the Fixing of the Eye with the Aid of Muscle Sense and on the Possible Role of Proprioception on the Occasion of Visual Fixation.

place more often than fixings with greater errors. The fixings were approximately symmetrically distributed as to the wanted direction. The author could draw the conclusion that the muscle sense doubtlessly takes part in the optic fixation. Moreover, the possible role of the proprioception in the mechanism of the optic fixation is presumably discussed. It might be possible that a repeated chronological coincidence of optic and proprioceptive stimuli is accompanied every time by a reflectoral correction of the situation of the axes and that it leads to the formation of temporary combinations between the proprioceptive and the eye moving (oculomotoric) centers. Certain shifts in the frequency of the proprioceptive impulses gain the importance of a conditioned stimulus for the compensatoric eye movements. There are 3 figures and 3 Slavic references.

ASSOCIATION: Institute for Physiology im. I. P. Pavlov AN USSR (Institut fiziologii im. I. P. Pavlova Akademii nauk SSSR)

PRESENTED: By K. M. Bykov, Academician, May 16, 1957

SUBMITTED: May 10, 1957

AVAILABLE: Library of Congress

Card 3/3

GUREVICH, B.Kh.

Fixation and ocular movements in response to conditioned stimuli.
Probl.fiziol.opt. 12:291-295 '58 (MIRA 11:6)

1. Laboratoriya fiziologii zritel'nogo analizatora Instituta fiziologii
im. I.P. Pavlova AN SSSR.
(EYE--MOVEMENTS)
(CONDITIONED RESPONSE)

GLEZER, V.D., GUREVICH, B.Kh., LEUSHINA, L.I.

Electrical responses of the parietal region in dogs to photic and acoustic stimuli; chronic experiment [with summary in English].
Fiziol.zhur. 44 no.9:820-828 S'58 (MIRA 11:12)

1. Laboratoriya fiziologii zritel'nogo analizatora Instituta fiziologii imeni I.P. Pavlova AN SSSR, Leningrad.
(CEREBRAL CORTEX, physical.
parietal responses to photic & acoustic stimuli (Rus))

BRISBANE, B.C.A.

"Intelligent" automata and the higher function of the brain. Vop.
psichol. 5 no. 4:3-15 J1-AS '59. (MIRA 12:11)

1. Institut fiziologii im. I.P. Pavlova AN SSSR.
(Electronic calculating machines) (Brain)

GUREVICH, B.K.

Role of proprioception in mechanisms of the oculomotor fixation reflex and the activity of the human visual analyzer. *Fiziol. zhur.* 45 no.11:1308-1316 N '59. (MIRA 13:5)

1. From the laboratory of visual analyzer physiology, I.P. Pavlov Institute of Physiology, Leningrad.
(OCULOMOTOR MUSCLES physiol.)
(REFLEX CONDITIONED)
(VISION physiol.)

GUREVICH, B.Kh.

Conditioned fixation reflexes and certain problems in the cybernetics
of ocular movements in man. Biofizika 5 no. 2:162-169 '60.

(MIRA 14:4)

1. Institut fiziologii im.I.P.Pavlova AN SSSR, Leningrad.
(EYE—MOVEMENTS) (CONDITIONED RESPONSE)
(CYBERNETICS)

GUREVICH, B.Kh.

Universal characteristics of x fixation movements of the eye;
fixation shift as a cybernetic model of controlled behavior.
Biofizika 6 no.3:377-384 '61. (MIRA 14:6)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.
(EYE—MOVEMENTS)

GUREVICH, B.Kh.

Electric indices of the regulative disposition activity of parietal association areas of the brain. Dokl. AN SSSR 141 no.2:505-508
N '61. (MIRA 14:11)

1. Institut fiziologii im. I.P.Pavlova AN SSSR. Predstavleno akademikom V.N.Chernigovskim.
(ELECTROENCEPHALOGRAPHY) (CONDITIONED RESPONSE)

GUREVICH, B. KH. (Leningrad)

"Behavior and Cybernetics"

Report presented at the 3rd Conference on the use of Mathematics in Biology,
Leningrad University, 23-28 Jan. 1961.

(Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963 pp 5-11)

GUREVICH, B.Kh.

Significance of "reverse connections" according to I.P.Pavlov
in the formation and course of conditioned reflexes. Vop.
psikhol. 8 no.3:85-94 My-Je '62. (MIRA 15:6)

1. Laboratoriya fiziologii zritel'nogo analizatora Instituta
fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.
(CONDITIONED RESPONSE)

GUREVICH, B.Kh.

Dynamics of excitation and inhibition in the cerebral centers
during oculomotor activities in dogs. Fiziol.zhur. 48 no.6:654-
662 Je '62. (MIRA 15:8)

1. From the Laboratory for Physiology and Pathology of Higher
nervous activity, I.P.Pavlov Institute of Physiology, Leningrad.
(CONDITIONED RESPONSE) (OCULOMOTOR NERVE)

GUREVICH, B.L.; LANDA, I.M.

Economic evaluation of land. Vest.Mosk. un. Ser. 5: Geog. 17
no.2:16-24 Mr-Apr '62. (MIRA 15:5)

1. Kafedry fizicheskoy i ekonomicheskoy geografii Odesskogo
universiteta imeni Mechnikova.

(Land)

SHILOV, Georgiy Yevgen'yevich; GUREVICH, Boris Lazarevich;
DUNCHENKO, V.V., red.

[Integrals, measures, and derivatives] Integral, mera i
proizvodnaia. Moskva, Nauka, 1964. 211 p. (MIRA 17:11)

Gurevich, B. L.

USSR/Mathematics

Card 1/1 Pub. 22 - 3/63

Authors : Gurevich, B.L.

Title : New types of spaces of the fundamental and the generalized functions and the Cauchy problem for equations of finite differences.

Periodical : Dok. AN SSSR 99/6, 893-895, Dec 21, 1954

Abstract : Methods which had been presented by Genfeld and Shilov, are generalized so that they can be used in the application of the Cauchy theorem to the equations in finite differences. In connection with the above mentioned generalization, concepts of new spaces are presented. Four USSR references (1939-1954).

Institution:

Presented by: Academician S.L. Sobolev, September 23, 1954

Gurevich, B. L.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.)^{MOSCOW},
Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Gurevich, B. L. (Odessa). New Space Types of a Basic and
Generalized Functions and the Uniqueness Classes of
Generalized Cauchy Problem. 114

Kovan'ko, A. S. (L'vov). On the Compactness of Systems
of Continuous Functions. 114

Mukminov, B. R. (Odessa). Expansions in Eigen-functions
of Dissipative Kernels. 114-116

Mention is made of Livshits, M. S.

Nayshul', A. B. (Moscow). Functional Problem for
Ordinary Differential Equations. 116-117

There are 8 references, 2 of which are USSR, 2 French,
3 English, and 1 is a translation into Russian.

Nikol'skiy, V. N. (Kalinin). Operator Properties of
Polynomials of the Best Approximation. 117-118
Card 37/80

GUREVICH, B. L.

Gurevič, B. L. New types of fundamental and generalized function spaces and the Cauchy problem for systems of difference equations involving differential operations. Dokl. Akad. Nauk SSSR (N.S.) 108 (1956), 1001-1003. (Russian)

L'A. utilise les résultats de L. Hörmander [C. R. Acad. Sci. Paris 240 (1955), 392-395; MR 16, 720] et les siens [Dokl. Akad. Nauk SSSR (N.S.) 99 (1954), 893-895; MR 16, 720] d'ailleurs moins généraux, résultats qui donnent de vastes classes d'espaces fonctionnels transformés isomorphiquement les uns dans les autres par transformation de Fourier; par transposition on définit la transformation de Fourier sur des espaces de fonctions analytiques. L'A. utilise ces notions pour l'étude de systèmes d'évolution de la forme

$$\frac{\partial}{\partial t} u(x, t) = p((2\pi i)^{-1} \partial / \partial x, T_h, t) u(x, t),$$

où f est une matrice, $T_h(x) = v(x-h)$, $x \in R^n$. Tout ceci poursuit les travaux de Schwartz, Gel'fand et Silov, Silov, Kostyuchenko (voir la bibliographie dans la dernière analyse citée ci-dessus, par exemple). J. L. Lions.

Handwritten notes:
1
Dokl. Akad. Nauk SSSR
1001-1003

Handwritten signature:
Lions

UREVICH, B. L., Cand Phys-Math Sci -- (diss) "New Spaces of the fundamental and generalized functions and problems of Cauchy for certain operative equations" Khar'kov, 1957. 6 pp, (Khar'kov State University im A. M. Mor'kiy), 100 copies (KL, 29-57, 88)

BURAKOVSKIY, V.Ye.; GUREVICH, B.L.; DYADYURA, V.A.

Characteristics of the density of sedimentary rocks in the
central part of the Black Sea Depression. Geofiz.sbor.
no.1:127-134 '65. (MIRA 18:12)

1. Kiyevskaya ekspeditsiya Ukrainского nauchno-issledovatel'-
skogo gornorudnogo instituta. Submitted February 12, 1963.

ACC NR: AT6028370

SOURCE CODE: UR/0000/65/000/000/0056/0069

(N)
AUTHOR: Subbotin, S. I.; Gurevich, B. L.; Sollogub, V. B.; Chekunov, A. V.;
Chirvinskaya, M. V.; Kuzhelov, G. K. (Deceased)

ORG: none

TITLE: Deep-seated structure of the Ukraine, based on data from geophysical investigations

SOURCE: International Geological Congress. 22d, New Delhi, 1964. *Geologicheskkiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetских geologov, problema 2.* Moscow, Izd-vo Nedra, 1965, 56-69TOPIC TAGS: tectonics, upper mantle, earth crust, stratigraphy /
Ukraine

ABSTRACT: Geological and particularly geophysical investigations have located a great number of deep-seated faults in the Ukraine. These faults have mainly northeast and northwest strikes. The northeast-strike faults predominate in the Ukrainian shield, the Black Sea depression, and the northern part of the Black Sea basin, while northwest-strike faults are typical of the Dneprovsko-Donetskaya depression, the Trans-Carpathian depression, the folded Carpathians, the Carpathian foredeep and the southwestern part of the Russian platform. For the area, as a whole, it has been found that the macrostructural features of deep-seated faults have longitudinal or transverse strikes. Tectonic movements in the Earth's crust

Card 1/2

ACC NR: AT6028370

are mainly caused by compression and expansion of the mantle associated with polymorphic, phase and electron transformations, or chemical alterations. Deep-seated faults originate in the upper mantle hundreds or at least tens of km deep. The main types of faults located in the Ukraine are: 1) ancient Proterozoic faults in the Precambrian basement; 2) faults of different ages, expressed in the basement as major stages and separating principal structural features or their components; and 3) transverse (sometimes longitudinal) faults cutting across the main structures and separating them into individual blocks. In addition, there are many faults in the sedimentary strata which are directly or indirectly associated with the block movement of the basement. The study of the deep-seated crustal structure of the main geotectonic features of the Ukraine is based upon geophysical, mostly seismic, investigations. The block-type structure of the crust has been established, and a number of deep-seated faults have been located. A general feature is increased crustal thickness under uplifts and decreased thickness under depressions. It has been found that the granite layer contains shallow gently sloping seismic discontinuities, which may either separate different structural stages and rock complexes or represent purely physical boundaries. The Ukraine has been divided into structural zones on the basis of geological and geophysical data, and detailed characteristics of all zones are given. Orig. art. has: 2 figures.

SUB CODE: 08/ SUBM DATE: 06Jan65/ ORIG REF: 025/ OTH REF: 006/

Card 2/2

ACC NR: AP6021456

SOURCE CODE: UR/0413/66/000/011/0079/0079

INVENTOR: Rapoport, M. B.; Seliverstov, B. P.; Chervonskiy, M. I.; Gurevich, B. L.; Malinskiy, S. A.; Veksler, B. Ye.; Aysman, Yu. A.; Remennikov, V. S.; Zhavoronkov, G. A.

ORG: None

TITLE: A device for automatically analyzing seismograms and constructing seismic profiles. Class 42, No. 182349

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 79

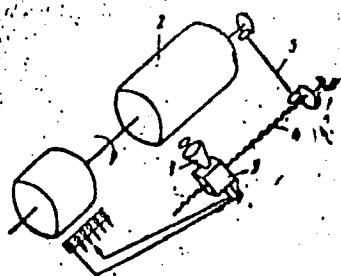
TOPIC TAGS: seismography, cathode ray tube, seismic modeling

ABSTRACT: This Author's Certificate introduces: 1. A device for automatically analyzing seismograms and constructing seismic profiles. The unit is based on Author's Certificate No. 166503. Efficiency of analysis is improved by mounting a cathode ray tube on a carriage which is moved along a photodrum by a worm gear or ratchet turned by the shaft of the photodrum. 2. A modification of this device in which measurement quality is improved by connecting a sawtooth generator through a programmed amplitude regulator to the vertical deflection system of the cathode ray tube.

Card 1/2

UDC: 550.340.84

ACC NR: AP6021456



1--cathode ray tube; 2--
photodrum; 3--carriage;
4--worm shaft; 5--drive

SUB CODE: 08, 09/ SUBM DATE: 31Mar64

Card 2/2

GUREVICH, B. L.

USSR/Geophysics - Geological Prospecting
Gravimetry

May/Jun 50

"Gravitational Anomalies and Their Connection With the Most Important Tectonic Elements of the Western Regions of the Ukrainian SSR," A. A. Bogdanov, B. L. Gurevich, S. Ya. Shereshevskaya, Inst of Geol Sci, Acad Sci USSR, 8 pp

"Iz Ak Nauk SSSR, Ser Geograf i Geofiz" Vol XIV, No 3

Gravitational anomalies in western regions of Ukrainian SSR reflect distribution of masses in both the surface and deep parts of the earth's crust. Submitted 14 Dec 49 by Acad O. Yu. Shmidt.

158T51

GUREVICH, B.L. [Hurevych, B.L.]

Some characteristics of the geological structure of the southern part of the Dniester-Frut interfluve. Geol.zhur. 18 no.5:36-46 '58. (MIRA 12:1)

(Dniester Valley--Geology, Structural)
(Frut Valley--Geology, Structural)

3(5)

SOV/21-59-1-20/26

AUTHOR: Gurevich, B.L.

TITLE: On the Stratigraphic Appurtenance of the Basic Reflection Horizon in the North-East of Crimea and Around the Sivash Lake (O stratigraficheskoy prinadlezhnosti opornogo otrazhayushchego gorizonta na severo-vostoke Kryma i v Prisivash'ye)

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1959, Nr 1, pp 76-80 (USSR)

ABSTRACT: The article presents the results of seisno-explorations by the reflected-wave method, being done since 1949 in the North-East Crimea and around Lake Sivash (by Vasil'yev, V.P., Gozak, Ch.I., Goncharova, T.A., D'yachkov, N.P., Yegorkin, A.V., Klimarev, A.A., Lantsov, V.P., Poyezdnik, N.D., Rozumenko, G.F., Storozhenko, B.G., Usachov, A.G., and others). Base reflection was discovered in nearly the entire territory. Up to now, the reflecting horizon was wrongly identified as the roof of cretaceous deposits. It is now proved that it

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SOV/21-59-1-20/26

On the Stratigraphic Appurtenance of the Basic Reflection Horizon
in the North-East of Crimea and Around the Sivash Lake

belongs to the ~~Kuzskaya~~ upper eocene marl pack, which has characteristic physical features, and partly to the underlying middle eocene deposits. The exploration results have to be revised. The eocene deposits of Crimea, around Lake Sivash, and in the North-West Caucasus foothills being similar, the study of the geological interconnection of these regions is now possible. There are 1 map, 1 diagram, and 7 Soviet references.

ASSOCIATION: Ukrainskiy razvedyvatelno-geofizicheskiy trest (The Ukrainian Geophysical Exploration Trust).

PRESENTED: August 13, 1958, by V.G. Bondarchuk, Member of the AS UkrSSR

Card 2/2

CHIRVINSKAYA, M.V.; GUREVICH, B.L.

Tectonics of the Black Sea region. Sov.geol. 2 no.4:83-92
Ap '59. (MIRA 12:7)

1. Trest "Ukrneftegeofizika."
(Black Sea region--Geology, Structural)

GUREVICH, B.L.

New data on the tectonic pattern of Crimean steppes and the
Sivash region. Sov.geol. 2 no.9:43-55 S '59. (MIRA 13:2)

1. Treat "Ukrasftegeofizika."
(Crimea--Geology, Structural)
(Sivash region--Geology, Structural)

GUREVICH, B.L.; SNEGIREVA, O.V.; SHALYA, A.A.

Gas potential of the Crimean Steppes and Sivash region. Gaz.prom.
4 no.8:3-8 Ag '59. (MIRA 12:11)
(Crimea--Gas, Natural--Geology)

GUREVICH B. L.

3 (5)

SOV/21-59-6-16/27

AUTHOR: Hurevich, B. L. (Gurevich, B.L.)

TITLE: On the Geological Interpretation of Certain Gravitational Anomalies of the Steppe Crimea

PERIODICAL: Dopovidi Akademii Nauk Ukrain's'koi RSR, 1959, Nr 6, pp 643 - 647 (USSR)

ABSTRACT: This is a report of the author on his furthering of the studies made by I. B. Birkhan in 1947 - 50 and by O. A. Belonin and N. M. Karpins'ka in 1957 - 58. The author applied the method described by A. P. Tikhonov and Yu. D. Bulanzhe [Ref 1], subsequently simplified by S. I. Subbotin [Ref. 2]. The author states that the division of the gravitational field of the Steppe Crimea makes it possible to study the local gravitational anomalies and classify them according to the depth of the occurrences of the Paleozoic foundation and the sign, in three groups, which the author defines in the text. The study of the physical properties indicates the absence of a single stratigraphically-stable boundary. In most cases it is the Paleozoic cover, in some

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SOV/21-59-6-16/27

On the Geological Interpretation of Certain Gravitational Anomalies of the Steppe Crimea

cases the Paleocene-Eocene deposits. The Novo-Tsaritsyn gravitational anomaly had different interpretations: G. O. Lichagin and A. V. Chekunov [Ref. 4] consider the anomaly as a reflection of a break in the depth which resulted during the access of heavy magmatic masses. The author subscribes to the opinion expressed by G. Kh. Dikensteyn [Ref. 5], which assumes the presence of a culmination from below. In order to verify and further study this matter, the author has analyzed and reinterpreted the whole data of electric explorations collected on this matter in 1950 by Yu. F. Matusевич and N. S. Muzovska and assisted by Ye. I. Olends'ka, established the existence of a culmination. There are 1 table, 1 map showing local gravitational anomalies and 5 Soviet references.

ASSOCIATION: Ukrainskiy razvedyvatel'nyy geofizicheskiy trest (Ukrainian Surveying Geophysical Trust)
PRESENTED: By V. H. Bondarchuk, (V.G. Bondarčuk) Member, AS UkrSSR
SUBMITTED: Januar 17, 1959
Card 2/2

GUREVICH, B. L., Cand Geol-Min Sci -- (diss) "Geological structure of the Central Black Sea Region and prospects of its petroleum gas potential from materials of geologo-geophysical research." Kiev, 1960. 15 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin State Univ im T. G. Shevchenko, Main Geological Administration Ukrainian SSR, Trust "Ukrgeofizrazvedka"); 150 copies; price not given; (KL, 26-60, 132)

GUREVICH, B.L. [Hurevych, B.L.]

Structural map of lower Tertiary and upper Cretaceous sediments in
the eastern Crimea and Sivash region based on seismic data. Geol.
zhur. 20 no.2:98-101 '60. (MIRA 14:5)
(Crimea---Geology, Structural---Maps)

GUREVICH, B.L.

Three structural plans of the central Black Sea region in connection with its oil and gas potentials. Sov.geol. 4 no.7:46-56 J1 '61. (MIRA 14:10)

1. Tract "Ukrgeofizrazvedka".
(Black Sea region--Petroleum geology)
(Black Sea region--Gas, Natural--Geology)

GUREVICH, B.L.; KLITCCHENKO, I.F.; CHIRVINSKAYA, M.V.

Oil and gas prospecting trends in the Black Sea region. Geol.
nefti i gaza 5 no.6:6-10 Je '61. (MIRA 14:6)

1. Trest Ukrgeofizrazvedka, Glavgeologiya USSR.
(Black Sea region--Petroleum geology)
(Black Sea region--Gas, Natural--Geology)

GUREVICH, B.L., kand. geol.-mineral. nauk; GONCHAROVA, T.A.; SOTKOVA, L.Ya.

Geophysical characteristics of the Lower Paleogene sediments
in the Tarkhankut Peninsula. Neft. i gaz. prom. no.2:16-19
Ap-Je '63. (MIRA 17:11)

1. Kiyevskaya ekspeditsiya Ukrainского nauchno-issledovatel'skogo
geologorazvedochnogo instituta.

GUREVICH, B.L.[Hurevych, B.L.]; GONCHAROVA, T.A.[Honcharova, T.A.]

Effectiveness of using the reflection method in the Tarkhankut Peninsula. Geol. zhur. 23 no.2:48-53 '63. (MIRA 16:6)

1. Kiyevskaya ekspeditsiya Ukrainского nauchno-issledovatel'skogo gornorudnogo instituta.
(Tarkhankut Peninsula--Seismic prospecting)

GUREVICH, B.L.; ZAYKOVSKIY, N.Ya.; SOLOVOVA, L.Ya.; CHIRVINSKAYA, M.V.

Development of structures in the Tarkhankut Peninsula.

Sov. geol. 7 no.3:116-120 Mr '64.

(MIRA 17:10)

1. Kiyevskaya ekspeditsiya Ukrainского nauchno-issledovatel'skogo gornorudnogo instituta.

BENDERSKIY, V.Ya.; GUREVICH, B.L.; RAPOPORT, M.B.; MEYNER, L.D.; CHERVONSKIY,
M.I.

Using seismic prospecting in the study of subsalt deposits in the
Dnieper-Donets Lowland. Izv.vys.ucheb.zav.; geol. i razv. 8 no.1:
109-117 Ja '65. (MIRA 18:3)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut.

BURAKOVSKIY, V.Ye.; GUREVICH, B.L.

Hypsometry of the surface of the folded basement in the Crimean plain, Sivash region, and the S·a of Azov. Geotektonika no.1: 126-128 Ja-F '65. (MIRA 18:5)

1. Kiyevskaya ekspeditsiya Ukrainского nauchno-issledovatel'skogo geologo-razvedochnogo instituta.