SKVARCHENKO, B.R.; LEVINA, R.Ya.; CHERVONEVA, L.A.

Synthesis of aromatic hydrocarbons. Part 6: Hydrocarbons of tetraline and naphthalene series. Vest. Moskl. un.Ser. mat., mekh., astron., fiz. khim., 12 no.5:177-180 '57. (MIRA 11:9)

1.Kafedra organicheskoy khimii Moskovskogo gosudarstvennogo universiteta.
(Tetraline) (Naphthalene)

5(3)

AUTHORS: Skvarchenko, V.R., Levina, R.Ya., Chervoneva, L.A. SOV/55-58-5-28/34

TITLE: Synthesis of Aromatic Hydrocarbons. VIII. Alkyltetralins (Sintez aromaticheskikh uglevodorodov. VIII. Alkiltetraliny)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 5, pp 187 - 190 (USSR)

ABSTRACT: From adducts of isopen and 2.3-dimethyl butadiene-1.3 with the anhydrid of Δ^1-cyclohexendicarboxylic acid there was obtained by heating with phosphorus pentoxyd the 6-methyltetralin (47 %) and 6.7-dimethyltetralin (59 %). The anhydrids of 2-methyl- and 2.3-dimethyl- Δ^2-octalin-dicarboxylic-9.10 acid and of the 2-methyl- Δ^2-octalin-dicarboxylic-9.10 acid are described for the first time. - There are 10 references, 4 of which are Soviet, 5 American, and 1 German.

ASSOCIATION: Kafedra organicheskoy khimii (Chair of Organic Chemistry)

SUBMITTED: December 28, 1957

Card 1/1

AUTHORS: Levina, R. Ya. Skvarchenko, V. R., Chervoneva, L. A., Fedorchuk, L. V., Vasil'yeva, T. T. 20-118-5-23/59

TITLE: The Synthesis of Aromatic Hydrocarbons
(Sintez aromaticheskikh uglevodorodov)
A New Method of Synthesizing Hydrocarbons of the Fluorene Series (Novyy metod sinteza uglevodorodov ryada fluorena)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5, pp. 938-941 (USSR)

ABSTRACT: The effect of phosphorous pentoxide on tetrahydrophtalic anhydrides leads to the formation of aromatic hydrocarbons with elimination of CO and H_2O as was proved by some of the authors (references 1-6). In the present paper the influence of phosphorous pentoxide on phenyltetrahydrophtalic aldehyde (I) (an addition of phenyl-butadiene with maleic anhydride) was investigated. In this case the reaction lead to the formation of fluorene (with a 21% yield) instead of diphenyl as might have been expected. It seems that the reaction passes through intermediate stages of an intramolecular acylation of the benzene nucleus. This leads to the foramation

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of tetrahydrofluorenone-carboxylic acid (II) which is further decarboxylated to tetrahydrofluorenone (III). Under the influence of phosphorous pentoxide this is changed into fluorene. The authors simplified this reaction by starting from phenyltetrahydrobenzoic acid (an addition of divinyl with cinnanic acid (V). When it was warmed up with phosphorous pentoxide fluorene was formed with a 63% yield. From the addition of cinnanic acid with isoprene and 2,3-dimethyl-butadiene 3 methylfluorene (5o% yield) and 2,3-dimethyl-fluorene (53% yield) were produced. The production of just 3-methylfluorene (melting point 87,5° - 88°C) and not of 2-methylfluorene (melting point 1o4°C) which is isomeric to it, from the addition of isoprene with cinnanic acid confirms the structure of this addition as 4-methyl-2-phenyl-1,2,3,6--tetrahydrobenzoic acid. From the addition of cinnanic acid with dicyclohexenyl (VIII) and dicyclopentenyl (IX), 1,2,3,4--dicyclohexane-fluorene (X) with a 83,5% yield and 1,2,3,4--dicyclopentane-fluorene (XI) with a 73% yield could be produced. Thus the reaction of the 2-aryl-1,3,6-tetrabenzoic acids (addition of diene-hydrocarbons with cinnanic acid) with phosphorous pentoxide can be recommended as a new

The Synthesis of Aromatic Hydrocarbons. 20-118-5-25/59
A New Method of Synthesizing Hydrocarbons of the Fluorene Series

preparative method of synthesis for hydrocarbons of the fluorene series. This is followed by an experimental part with the usual data. There are 23 references, 9 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova) (Moscow State University imeni M. V. Lomonosov)

PRESENTED: September 5, 1957, by A. N. Nesmeyanov, Member, Academy of Sciences, USSR

SUBMITTED: June 19, 1957

Card 3/3

CHERVONEVA, L. A., Candidate Chem Sci (diss) -- "New methods of synthesizing di- and polynuclear aromatic hydrocarbons". Moscow, 1959. 15 pp (Moscow Order of Lenin and Order of Labor Red Banner State U im M. V. Lomonosov), 120 copies (KL, No 25, 1959, 128)

5(3) SOV/79-29-7-17/83

AUTHORS: Skvarchenko, V. R., Chervoneva, L. A., Pastukhova, I. S., Levina, R. Ya.

TITLE: Aromatic Hydrocarbons (Aromaticheskiye uglevodorody). IX. Synthesis of the Hydrocarbons of the Indan Series (IX. Sintez uglevodorodov ryada indana)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2174-2178 (USSR)

ABSTRACT: The aromatization reaction (Refs 1-5) worked out by the authors already earlier was used in the previous papers (Ref 6) for the synthesis of hydrocarbons of the tetralin series. The anhydride of Δ^1-cyclohexene-1,2-dicarboxylic acid was used as dienophilic compound (Scheme 1). In order to obtain hydrocarbons of the indane series, the aromatization of the adducts of diene hydrocarbons was carried out with the anhydride of Δ^1-cyclopentene-1,2-dicarboxylic acid with the action of phosphorus pentoxide. This dienophilic compound was obtained according to scheme 2 from the ethyl ester of cyclopentanone-2-carboxylic acid (Ref 7). By causing the above anhydride to react with alkadienes, divinyl, isoprene, and 2,3-dimethyl-butadiene-1,3 the hitherto unknown anhydrides (I),(II) and (III)

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Aromatic Hydrocarbons. IX. Synthesis of the Hydrocarbons of the Indan Series

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were synthesized in high yields (Scheme 3) after longer heating in the autoclave. By causing the anhydride (I) to react with phosphorus pentoxide indane (IV)(69%)(Scheme 4) resulted. From (II) 5-methyl indane (V)(61%)(Scheme 5) resulted by the same method. 5,6-Dimethyl indane (VI)(84%) was obtained by causing anhydride (III) to react with phosphorus pentoxide (Scheme 6). The hydrocarbons obtained were determined according to the constants and melting points of their sulphonamides. Also the compounds (VII) and (VIII) were obtained from the anhydride of Δ^1-cyclopentene-1,2-dicarboxylic acid. These adducts were transformed by phosphorus pentoxide into the polycyclic aromatic hydrocarbons (IX) and (X)(Scheme 7). There are 17 references, 7 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: July 4, 1958

Card 2/2

5.3400

77348
SOV/79-30-1-9/78

AUTHORS: Skvarchenko, V. R., Chervoneva, L. A., Levina, R. Ya.

TITLE: Aromatic Hydrocarbons. XIII. Synthesis of Fluorenes From Adducts of 1,2-Indenedicarboxylic Anhydride

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 50-54 (USSR)

ABSTRACT: 1,2-Indenedicarboxylic anhydride was used in this work for the first time as a dienophile. Ethyl ester of hydrocinnamic acid was the starting material from which 1,2-indenedicarboxylic acid (II, yield 97%, mp 215-217°) and its anhydride (III, yield 43%, mp 184-185°) were prepared through the formation of an intermediate product, diethyl ester of 1,2-indenedicarboxylic acid (I), mp 76-77°.

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Aromatic Hydrocarbons. XIII. Synthesis of Fluorenes From Adducts of 1,2--Indenedicarboxylic Anhydride

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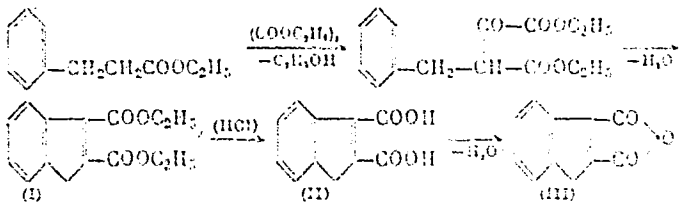

The reaction of compound III with 2,3-dimethylbuta-1,3-diene (heating at 120° in autoclave for 30 hr) and with 1,1'-dicyclohexenyl (boiling in xylene for 40 hr) yields (84%) compound IV (mp 118-119°) and compound V (yield 67.5%, mp 163-164°), respectively.

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Aromatic Hydrocarbons. XIII. Synthesis of Fluorenes From Adducts of 1,2--Indenedicarboxylic Anhydride

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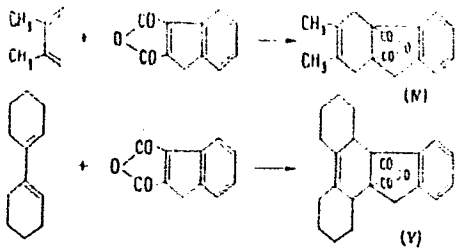
SOV/79-30-1-9/78



(IV)

(V)

Both anhydrides (IV and V) were not described in literature. The adducts IV and V on heating with P_2O_5 eliminate carbon monoxide and water and yield (75%) compound VI, mp 123-124°, compound VII (yield 76%), mp 128-128.5°, and compound VIII (yield 41%), mp 158-159°.

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Aromatic Hydrocarbons. XIII. Synthesis of Fluorenes From Adducts of 1,2--Indenedicarboxylic Anhydride

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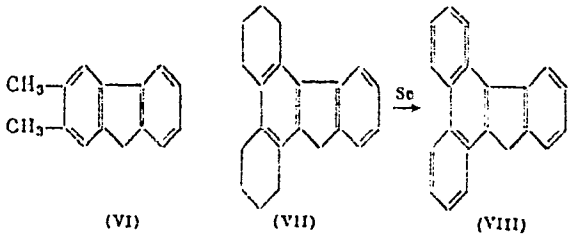
SOV/79-30-1-9/78



(VI) (VII) (VIII)

There are 6 references, 4 Soviet, 1 German, 1 French.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: January 22, 1959

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5.3400

77349
SOV/79-30-1-10/78

AUTHORS: Skvarchenko, V. R., Chervoneva, L. A., Puchnova, V. A., Levina, R. Ya..

TITLE: Aromatic Hydrocarbons. XIV. The Reaction of Phosphorus Pentoxide With Adducts of Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 54-59 (USSR)

ABSTRACT: The following adducts of 3,4-dihydronaphthalene-1,2-dicarboxylic acid with butadiene, isoprene, and 2,3-dimethylbuta-1,3-diene were prepared: 1,4,9,10,11,12-hexahydrophenanthrene-11,12-dicarboxylic anhydride (II) (yield 40%), bp 160-170° (1 mm); 3-methyl-1,4,9,10,11,12-hexahydrophenanthrene-11,12-dicarboxylic anhydride (III) (yield 79.5%), mp 141-141.5° (not described in literature) and 2,3-dimethyl-1,4,9,10,11,12-hexahydrophenanthrene-11,12-dicarboxylic anhydride (IV) (yield 72%), mp 76-77°, respectively. Two adducts of 3,4-dihydronaphthalene-1,2-dicarboxylic anhydride

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Aromatic Hydrocarbons. XIV. The Reaction of Phosphorus Pentoxide With Adducts of Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

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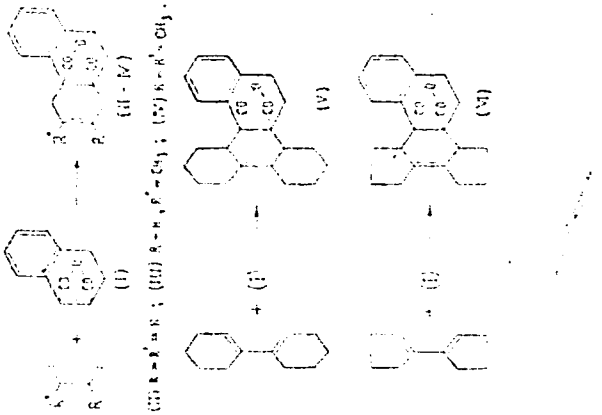
with bicyclic dienes were also prepared: compounds V (yield 50%), mp 186-187° (not described in literature), and VI (yield 85%), mp 164-165° (not described in literature).



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Aromatic Hydrocarbons. XIV. The Reaction of Phosphorus Pentoxide With Adducts of Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

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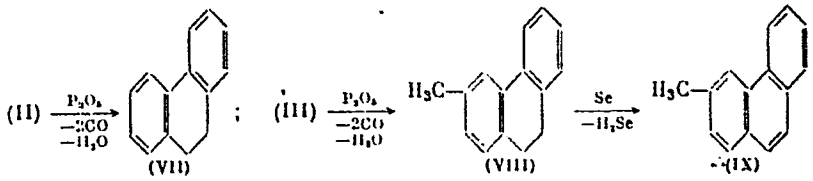
The reaction of P_2O_5 with adduct II at gradually rising temperature, from 200 to 300°, yields compound VII (yield 72%), mp 33-34.5°. Heating of P_2O_5 with compound III at 200-320° yields compound VIII (yield 69%), bp 167-168° (9 mm), n_D^{20} 1.6309.



Heating of P_2O_5 with compound IV at 250-350° for 6 hr yielded compound XI (yield 39%), mp 79-80°, instead of expected compound X.

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Aromatic Hydrocarbons. XIV. The Reaction of Phosphorus Pentoxide With Adducts of Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

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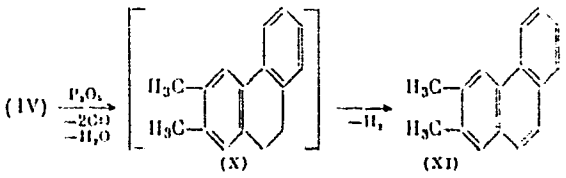
SOV/79-30-1-10/78



The adducts V and VI are stable toward P_2O_5; heating at 300-400° for 10 hr resulted only in formation of naphthalene-1,2-dicarboxylic anhydride (XII) and naphthalene instead of the expected phenanthrenes. This is explained by the decomposition of adducts into starting diene and dienophile at high temperature. The dienophile, 3,4-dihydronaphthalen-1,2-dicarboxylic anhydride, is converted into a mixture of naphthalene-1,2-dicarboxylic anhydride (XII) and 1,2,3,4-tetrahydro-naphthalene-1,2-dicarboxylic anhydride (XIII). The

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Aromatic Hydrocarbons. XIV. The Reaction of Phosphorus Pentoxide With Adducts of Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

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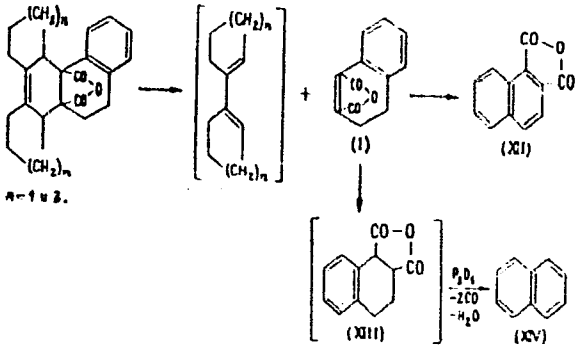
latter, under the action of P_2O_5, eliminates carbon monoxide and water and becomes converted into naphthalene (the second reaction product).



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Aromatic Hydrocarbons. XIV. The Reaction of Phosphorus Pentoxide With Adducts of Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

77349
SOV/79-30-1-10/78

There are 16 references, 6 Soviet, 4 U.S., 4 U.K., 2 German. The 5 most recent U.S. and U.K. references are: Fieser, L. F., Herschberg, E. B., J. Am. Chem. Soc., 57, 2192 (1935); Fieser, L. F., Herschberg, E. B., J. Am. Chem. Soc., 57, 1508 (1935); Askew, F. A., J. Chem. Soc., 1935, 512; Francis, F., Collins, F. J. E., J. Chem. Soc., 1936, 137; Fieser, L. F., Herschberg, E. B., J. Am. Chem. Soc.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: January 22, 1959

Card 6/6

L 18957-63 EPR/EWP(j)/EPF(c)/EWT(m)/BDS ASD Ps-4/Pr-4/Pc-4 RM/WW/
MAY/AB

ACCESSION NR: AP3006541 S/0191/63/000/009/0050/0051 75

AUTHORS: Shelepin, I. V.; Dugacheva, G. M.; Chervoneva, L. A.; Anikin, A. G.; Fedorova, A. I.

TITLE: Method of purifying and controlling degree of methylmethacrylate purity

SOURCE: Plasticheskiye massy*, no. 9, 1963, 50-51

TOPIC TAGS: methylmethacrylate, sulfuric acid, radiolysis, purification, polymerization, cryoscopic analysis

ABSTRACT: The pure methylmethacrylate (MMA) necessary for electrochemically-initiated polymerization can be obtained from commercial 99.8% MMA stabilized with hydroquinone by treating with 25% caustic solution to remove peroxides, and then with H_2SO_4 to remove carbonyl compounds and finally by distilling at reduced pressure (7mm. Hg) under oxygen-free nitrogen. The 99.99% MMA thus obtained has less than 10^{-4} mole per liter of acids. An apparatus was constructed for the cryoscopic analysis of MMA. Crystallization curves for commercial and the purified MMA are given. Orig. art. has: 2 figures.

Card 1/1

L 3603-66

ACCESSION NR: AP5021365 UR/0120/65/000/004/0206/0212
621.382

30
B

AUTHOR: Vasilev, V. S.; Golovin, B. M.; Osipenko, B. P.; Chervonko, A.

TITLE: The use of light probes for the study of the structure of semiconductor detectors

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 206-212

TOPIC TAGS: semiconductor device, semiconductor research, semiconductor band structure

ABSTRACT: Silicon n-i-p-structure detectors are used extensively for the registration and spectroscopy of nuclear particles with extended path length. It had been shown earlier that during the displacement of a light spot along a line cutting through the n-p germanium transition, the photo emf (or photo current) depend in a definite way on the position of the spot. This effect has been used to measure the lifetimes (diffusion lengths) of the non-equilibrated carriers within the p- and n-regions of germanium. The present paper develops a method for the study of the structure and the determination of the width of the sensitive region from the photocurrent variations as a function of the light spot position.

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L 3603-66
ACCESSION NR: AP5021365

The same approach is used for the study of aging and the response of the detector to nuclear radiations and to the action of other agents. The article describes the experimental device, the procedures, the influence of the experimental conditions on the determination of the width of the n-, i-, and p-region, the comparison of the results of thickness measurements by different methods, including galvanic, photochemical, electrophotochemical, condenser, and light probe methods, and gives a discussion of the effects due to the surface finishing. "The authors thank V. P. Dzhelepov for his interest in the study and help during its completion." Orig. art. has: 3 formulas, 7 figures, and 1 table.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy, Dubna (Joint Institute of Nuclear Research)

SUBMITTED: 13 June 64 ENCL: 00 SUB CODE: NP, SS

NO REF SOV: 001 OTHER: 010

Card 2/2

L 18421-63 EWT(1)/BDS AFFTC/ASD/ESD-3/IJP(C)
ACCESSION NR: AP3005321 S/0181/63/005/008/2141/2148

AUTHOR: Chervonko, Yezhi

TITLE: The Green thermodynamic functions for an isotropic antiferromagnetic material with arbitrary spin

SOURCE: Fizika tverdogo tela, v. 5, no. 8, 1963, 2141-2148

TOPIC TAGS: Green function, thermodynamic function, isotropic, antiferromagnetic, ferromagnetic, arbitrary spin, single-particle medium, spin, superposition approximation

ABSTRACT: Equations for the Green function of isotropic antiferromagnetic material with arbitrary spin are examined for longitudinal and perpendicular magnetic field. In superposition approximation, these equations lead to a system of equations for single-particle media. The equations have been obtained in concrete form for a spin below 3. All the equations are suitable at low and high temperatures and, with some changes, may be used for ferromagnetic material. In excluding all single-particle media, equations are obtained for magnetization

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L 18421-63
ACCESSION NR: AP3005321

3

which are then resolved for low and near-critical temperatures for ferromagnetic as well as antiferromagnetic material. "The author thanks S. V. Tyablikov and D. N. Zubarev for useful discussions." Orig. art. has: 2 tables and 21 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy, g. Dubna (Joint Institute for Nuclear Research)

SUBMITTED: 04Mar63	DATE ACQ: 06Sep63	ENCL: 00
SUB CODE: PH	NO REF SOV: 008	OTHER: 006

Card 2/2

L 2231-66 EWT(1) IJP(c) GG
ACCESSION NR: AP5020248 UR/0367/65/002/001/0014/0023

4637
B

AUTHOR: Chervonko, Ye. 44,55

TITLE: Asymptotic properties of some model Hamiltonians in nuclear physics: single-particle excitations

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 14-23

21,44,55

TOPIC TAGS: superconductivity, Hamiltonian, asymptotic property

ABSTRACT: This is a continuation of earlier work by N. N. Bogolyubov and co-workers (Preprint, OIYaI, R-511, 1960; DAN SSSR v. 117, 788, 1957; ZhETF v. 39, 120, 1960) and by the author (Bull. Pol Acad. Sci. v. 3, 99, 1961), dealing with the proof of the asymptotic accuracy of solutions of equations with various Hamiltonians in the theory of superconductivity. The present paper deals with the asymptotic properties of the mean energy and of finite-temperature single-particle excitations of a class of model Hamiltonians. The case is considered when the number of particles tends to infinity but the density remains constant. A second-quantized model interaction Hamiltonian is used, in which the number of summations over the

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L 2231-66

ACCESSION NR: AP5020248

9

one-particle degrees of freedom is one less than in the real Hamiltonian, "The author thanks N. N. Bogolyubov and V. G. Solov'yev for valuable discussions," Orig. art. has: 37 formulas 44,55 44,55

ASSOCIATION: Ob"yedinnyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research) 44,55

SUBMITTED: 28Jul64 ENCL: 00 SUB CODE: GP, MA

NR REF SOV: 008 OTHER: 013

Card 2/2

YERENKOV, V.A., kand.med.nauk (Lugansk); CHERVONNYY, G.D., prepodavatel' infektsionnykh bolezney; FABRIKANT, G.L., kand.med.nauk, prepodavatel' kursa detskikh bolezney

Instruction on children's infectious diseases in medical schools. Fel'd. i akush. 26 no.5:51-58 My '61. (MIRA 14:5)

1. Meditsinskoye uchilishche, Magnitogorsk (for Chervonnyy).
2. Meditsinskoye uchilishche No.2, Moskva (for Fabrikant).
(PEDIATRICS--STUDY AND TEACHING)

SIMSKIY, Aleksandr Mikhaylovich; CHERVONNYY, M.G., red.; TSYGANOVA, L.B., red.izd-va; PARAKHINA, N.L., tekhn. red.

[Protection of forests against fires] Okhrana lesov ot pozharov. Moskva, Goslesbumizdat, 1961. 49 p. (MIRA 15:7)
(Forest fires—Prevention and control)

CHERVONNYY, Mikhail Grigor'yevich; ANTSYSHKIN, S.P., red.; SARMATSKAYA, G.I., red. izd-va; PARAKHINA, N.L., tekhn. red.

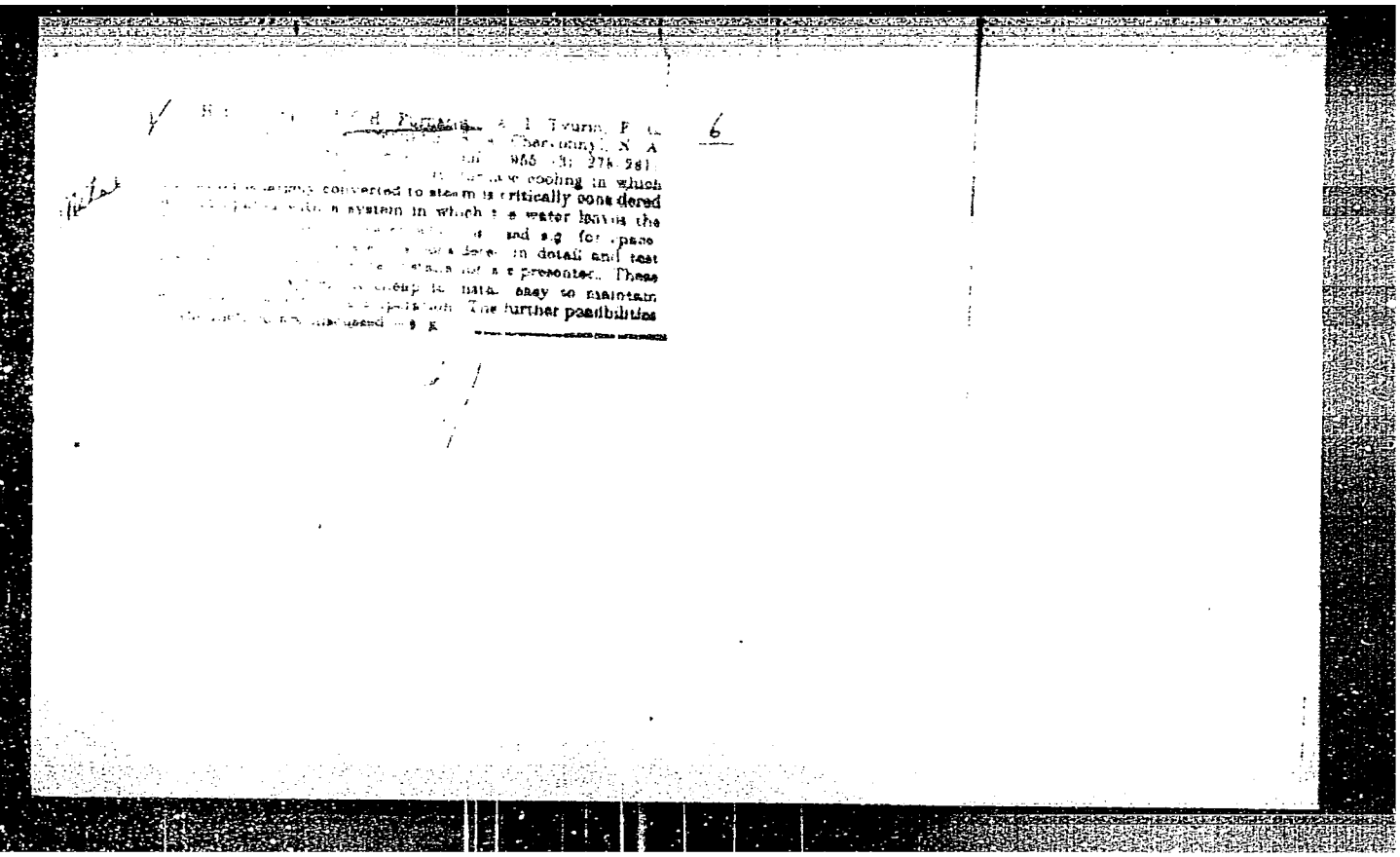
[Using airplanes in the prevention of forest fires] Primenenie aviatsii pri okhrane lesov ot pozharov. Moskva, Goslesbumizdat, 1961. 111 p. (MIRA 15:3)

(Aeronatics in forestry)
(Forest fires--Prevention and control)

CHERVONNYY, M.G., red.

[Instructions for the use of airplanes in forest fire protection] Instruktsiia po aviatsionnoi okhrane lesov ot pozharov. Moskva, Goslesbumizdat, 1963. 213 p. (MIRA 17:5)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye lesnogo khozyaystva i okhrany lesa.



converted to steam is critically considered
system in which the water leaving the
and e.g. for pass
in detail and test
presented. These
data easy to maintain
The further possibilities

VOSKRESENSKIY, A.A., inzh.; CHERVONNYY, Ye.M., inzh.

Features of designing electric protection systems using operative a.c. Elek. sta. 32 no.12:53-55 D '61. (MIRA 15:1)
(Electric protection)

CHERVONOBABA, V. A.: Master Tech Sci (diss) -- "Investigation of the resistance to warping and shrinkage of concrete reinforced with netting, as applied to joints of sectional reinforced-concrete columns". Moscow, 1958. 21 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 120 copies (KL, No 6, 1959, 136)

CHERVONOBABA, V.A., inzh.

Testing the crumpling strength of mesh reinforced concretes.
Trudy NIIZHB no.5:110-126 '59. (MIRA 12:9)
(Reinforced concrete--Testing)

CHERVONOBRODOV, P.

Device for bending spring center bands. Avt.transp. 33 no.10: 35 O '55. (MLRA 9:1)

(Automobiles--Springs)

CHERVONOBRODOV, P.

Universal stand for assembling transmission cases. Avt. transp. 36 no.9:53 S '58. (MIRA 11:10)
(Automobiles--Transmission devices)

CHERVONOBRODOV, P., inzh.

Expediency of the repair of motor-vehicle parts in automotive transportation units and repair plants. Avt.transp. 4 no.8:21-23 Ag '62. (MIRA 16:4)

(Motor vehicles—Maintenance and repair)

CHERVONOBRODOV, P.L.; DEKHTYAR, B.A.

Take into consideration and stimulate the increase of lifetime of a motor vehicle and its units. Avt. prom. 29 no.8:3-5 Ag '63. (MIRA 16:11)

1. Moskovskiy avtodorozhnyy institut i Gor'kovskiy avtozavod.

CHERVONOBRODOV , P.L.; YEFREMOV, V.V., prof., otv. red.; VLASOV, A.I., red.; SHVETSOV, S.V., tekhn. red.

[Characteristics of the assembling of rear axles of automobiles during major repairs] Osobennosti sborki zadnikh mostov avtomobilei pri kapital'nom remonte. Moskva, Rosvuzizdat, 1963. 23 p. (MIRA 17:3)

CHERVONOBRODOV, P., inzh.

Repairing axles with a hypoid gear. Avt. transp. 41 no.6: 28-30 Je '63. (MIRA 16:8)

CHERVONSKIY, I. P.

"

"First Aid for Caustic Poisoning," Fel'dsher i Akusher., M No.x 5, 1948.

2366 Chervonskiy, I.P.

Tuberkulez I Bor'ba S Nii. Tbilisi, Gruamedgiz, 1954. 40s. 17sm. 3.000 EKZ. 45k. - Na Gruz. YAZ - (54-55504)

616.995

CHERVONSKIY, M.I.

Structure and oil and gas potentials of the southeastern sector of the Outer cis-Carpathian region. Razved. i okh. nedr. 30 no.5:11-14 My '64. (MIRA 17:10)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut.

ACC NR: AT6028965 SOURCE CODE: UR/0000/65/000/000/0049/0058

AUTHOR: Benderskiy, V. Ya.; Chervonskiy, M. I.; Rapoport, M. B.

ORG: Ukrainian Scientific Research Institute of Geological Prospecting (Ukrainskiy nauchno-issledovatel'skiy geologo-razvedochnyy institut)

TITLE: Use of directional interference systems in generation and reception of vibrations in the Dnieper-Don basin

SOURCE: Vsesoyuznyy seminar po novoy metodike seysmorazvedki. Seysmorazvedka s primeneniyem gruppirovaniya vzryvov na dlinnykh bazakh i sposoba tsentral'nykh luchey (Seismic prospecting using the grouping of shots on long bases and the method of central rays); trudy seminara. Moscow, Izd-vo Nedra, 1965, 49-58

TOPIC TAGS: seismology, seismic exploration, seismic prospecting, seismic wave, salt dome, seismic record

ABSTRACT: A practical methodology of seismic exploration for investigating the structure of deposits below salt domes in the central Dnieper-Don basin is described. The first stage of seismic exploration consisted of continuous symmetric profiling with controlled grouping during reception, i.e., first correlated modification of controlled directional reception (RNP) and automatic plotting of records. Subsequent use of the directed plane wave-front method (UPF) made it possible

Card 1/2

ACC NR: AT6028965

to detect reflected waves previously not recorded. Greatest efficiency was achieved by combining UPF and controlled grouping of apparatus for automatic plotting of seismic records. A cross section was constructed from the field data using this method, which shows several boundaries within and below the salt domes. Orig. art. has: 5 figures and 2 formulas.

SUB CODE: 08/ SUBM DATE: 30Apr65/ ORIG REF: 005

Card 2/2

ACC NR: AR6024842 SOURCE CODE: UR/0169/66/000/004/D020/D020

AUTHOR: Chervonskiy, M. I.; Rapoport, M. B.; Raykher, L. D.; Seliverstov, B. P.

TITLE: Procedures for recording seismic survey data in automatic processing of seismograms

SOURCE: Ref. zh. Geofizika, Abs. 4D130

REF SOURCE: Tr. Ukr. n.-i. geologorazved. in-t, vyp. 11, 1965, 92-99

TOPIC TAGS: seismic survey, seismography, automatic data processing

ABSTRACT: The distinctive features of different forms of recordings used in the automatic construction of time profiles are examined. In recording by using the method of variations, the time profiles are formed by introducing the synchronization axes which serve as reflecting boundaries. Accounting for the form of recording is possible by tracing the reflecting boundaries. In recording by using the method of variable density, the variable density seismograms with straightened synchronization axes form the time profiles directly. The variable density recordings are easily applied to contact printing where the necessary changes in the horizontal and vertical scales may be made. The time profiles made on the basis of variable density recordings are more descriptive and convenient for processing than the profiles made on the basis of the recordings using the method of variations. Their disadvantage lies in the lack of vibration information. Recordings using the variable width method are widely used

Card 1/2 UDC: 550.834

ACC NR: AR6024842

in the MRNP apparatus as reproducible recordings. The seismograms using this form of recording permit the study of peculiarities of all forms of recordings. Combined forms of different recordings, e.g., the superposition of variational and variable density recordings, has features belonging to both types of recordings discussed. [Translation of abstract] R. Matveyeva

SUB CODE: 08, 09, 05

Card 2/2

ACC NR: AP7004764 SOURCE CODE: UR.0413/67/000/001/0076/0076

INVENTOR: Raykher, L. D.; Gasilovskiy, K. S.; Chervonskiy, M. I.

ORG: None

TITLE: A method for storage of seismic signals. Class 42, No. 190030

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 76

TOPIC TAGS: seismograph, nonelectric signal equipment, signal recording, photographic material

ABSTRACT: This Author's Certificate introduces a method for storage of seismic signals on a photographic layer using variable-density recording with exposure correction by automatic alteration of signal amplification. The number of signals which can be stored is increased and the dynamic range is extended by recording adjacent tracking lines on the photographic layer with subsequent superposition of light signals proportional to the amplitude of the seismic vibrations. Readout is done from the entire band made up of the tracking lines.

SUB CODE: 08/ SUBM DATE: 13Mar64

Card 1/1

UDC: 550.834

BENDERSKIY, V.Ya.; GUREVICH, B.L.; RAPOPORT, M.B.; RAYKHER, 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.

ACC NR: AT6028965 SOURCE CODE: UR/0000/65/000/000/0049/0058

AUTHOR: Benderskiy, V. Ya.; Chervonskiy, M. I.; Rapoport, M. B.

ORG: none

TITLE: New tectonic maps of the Crimea and the relationship between the folded structures of the Crimean Mountains and the northwestern Caucasus

SOURCE: Vsesoyuznyy seminar po novoy metodike seysmorazvedki. Seysmorazvedka s primeneniyem gruppirovaniya vzryvov na dlinnykh bazakh i sposoba tsentral'nykh luchey (Seismic prospecting using the grouping of shots of long bases and the method of centrla rays); trudy seminara. Moscow, Izd-vo Nedra, 1965, 49-58

TOPIC TAGS: tectonic map, upper crust, seismicity, Crimea, earthquake epicenter

TECTONICS, MAP

ABSTRACT: A new tectonic map of the Crimea, showing major structures faults, earthquake epicenter distribution, and other geologic features is presented. The importance of various fault systems in the present-day folded and block structures of the Crimean Mountains is explained. The structural simularities between the Crimean Mountains and the southern flank of the Greater Caucasus meganticlinorium are noted. Present-day seismicity of the Black Sea floor in the sector adjacent to the southwest block uplift of the Crimean Mountains is associated with prehistoric geologic development. Orig. art. has: 2 figures.

SUB CODE: 08/ SUBM DATE: 30Apr65/ ORIG REF: 005/

Card 1/1

L 00584-66 EWT(1)/EWA(h) GW
ACCESSION NR: AP5021604 UR/0286/65/000/013/0074/0074

AUTHORS: Rapoport, M. B.; Chervonskiy, M. I.; Raykher, L. D.
44,55 44,55 44,55

TITLE: Method of producing seismic controllable guided systems by storage on a photolayer of variable density traces. Class 42, No. 172508

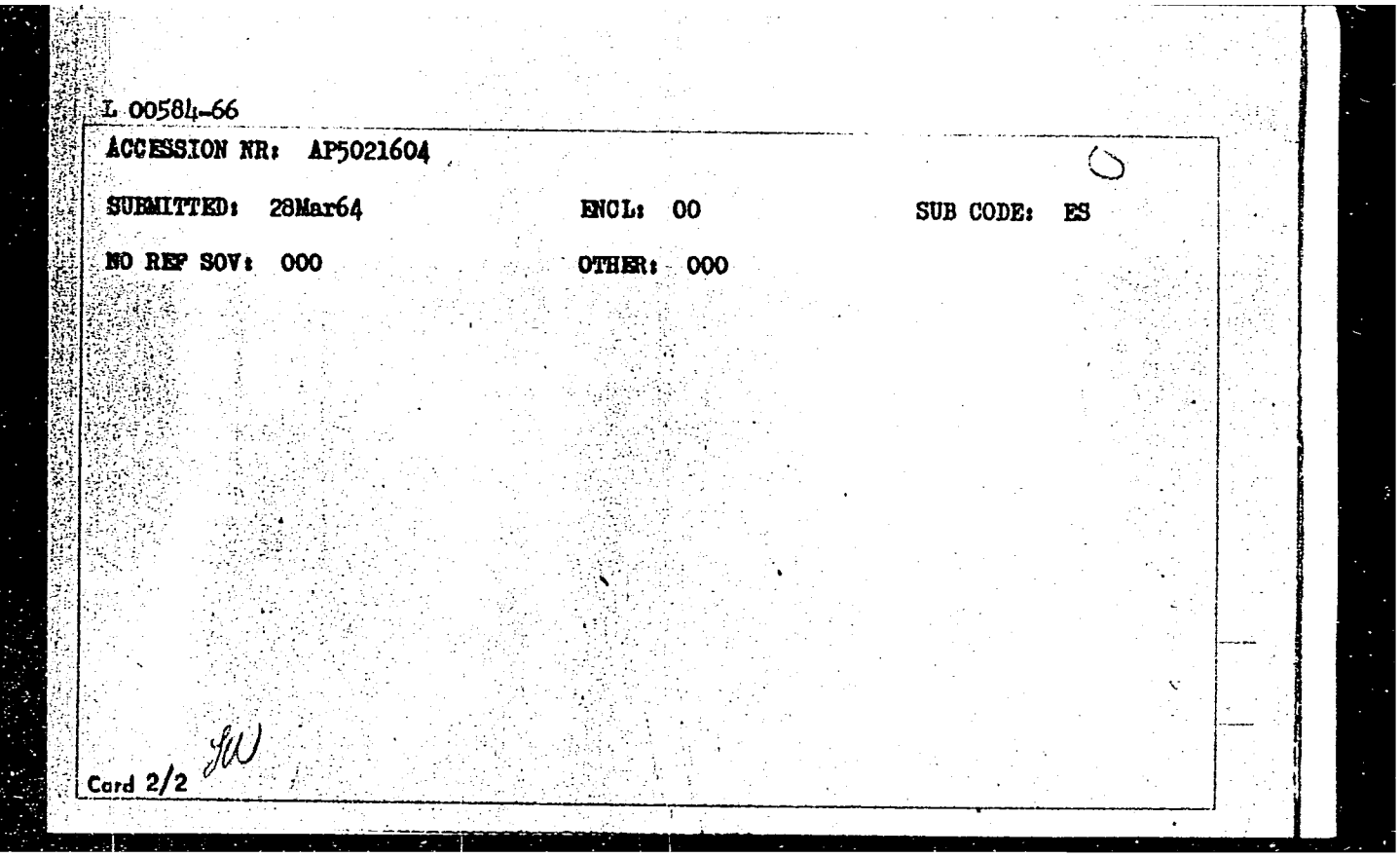
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 74

TOPIC TAGS: seismography, seismic wave
44,55,12

ABSTRACT: This Author Certificate presents a method for producing seismic controllable guided systems by storage on a photolayer of variable density traces with the reproduction of magnetic seismograms. To separate the useful waves and to suppress the ordinary noise, time shifts compensating the time shifts of the separated waves are introduced into the stored signals. Control by the guided systems is accomplished by the rotation of the recording line by an angle equal to the inclination angle of the co-phase axes of the separated waves.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy geologo-razvedochnyy institut (Ukrainian Geological Exploration Scientific Research Institute)
44,55

Card 1/2



L 00584-66

ACCESSION NR: AP5021604

SUBMITTED: 28Mar64 ENCL: 00 SUB CODE: ES

NO REF SOV: 000 OTHER: 000

Card 2/2

ACC NR: AP6002919 (N) SOURCE CODE: UR/0286/65/000/024/0082/0082

AUTHOR: Davkhor, L. D.; Benderskiy, L. Ya.; Vasil'yev, Yu. A.; Kapoport, M. B.; Sharan, I. I.; Chervonskiy, K. I.

ORG: none

TITLE: A method for seismic exploration. Class 42, No. 177103 [announced by Ukrainian Scientific Research Geological Exploration Institute (Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 82

TOPIC TAGS: seismograph, seismology

ABSTRACT: This Author Certificate presents a method for seismic exploration with the use of controlled directional excitation systems (operating along any specified principle) and systems of vibration reception. The method increases the effectiveness of exploration and provides a unique selection of seismic waves from the irradiated objects. The interference systems in the vibration reception are coordinated with interference systems of the vibration excitation. This is accomplished by summing up displacements of any number of recordings based on a previously specified relationship which agrees with the vibration excitation principle.

SUB CODE: 08/ SUBM DATE: 20Jul64

Card 1/1

UDC: 550.834

L 10795-67 EWT(1) GW

ACC NR: AP7003511 SOURCE CODE: UR/0413/66/000/012/0090/0090

23

INVENTOR: Raykher, L. D.; Rapoport, M. B.; Cherkasskiy, N. V.; Chervonskiy, M. I.; Yuzevich, Yu. V.

ORG: none

TITLE: Method for constructing temporal seismic cross sections. Class 42, no. 182901 [Announced by Ukraine Scientific Research Geological Prospecting Institute]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 90

TOPIC TAGS: seismic wave, geophysics

ABSTRACT: Author's certificate no. 182901, dated 10 April 1965, has been issued to L. D. Raykher, M. B. Rapoport, N. V. Cherkasskiy, M. I. Chervonskiy and Yu. V. Yuzevich of the Ukrainian Scientific Geological Prospecting Institute for a method described as follows: "A method for constructing temporal seismic cross sections, using a single-track multichannel magnetic record. It differs in that for the purpose of increasing the quality of the reproduced material and speeding up the processing rate the rotating drum is exposed along its generatrix to seismic signals which are displayed on the screen of a cathode-ray tube; scanning begins in response to appearance of the time mark of a shot; transition from trace to trace is accomplished by rotation of the photo drum. [JPRS: 37,397]

SUB CODE: 08 / SUBM DATE: 10Apr65

Card 1/1 UDC: 550.834

ACC NR: AP6021459 SOURCE CODE: UR/0413/66/000/011/0080/0080

INVENTOR: Ryabinkin, L. A.; Raykher, L. D.; Rapoport, M. B.; Benderskiy, V. Ya.; Chervonskiy, M. I.

ORG: None

TITLE: A method for adding seismic signals. Class 42, No. 182352

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 80

TOPIC TAGS: seismology, light modulation, nonelectric signal equipment, signal processing

ABSTRACT: This Author's Certificate introduces a method for adding seismic signals by synchronous storage on a light sensitive layer exposed by a long writing line with successive brightness modulation by signals which are reproduced channel by channel. The procedure is designed for addition of reflected signals with hyperbolic cophase axes. During reproduction of each channel, the writing line is rotated through an angle which is determined by the time of arrival of the waves, their rate of propagation and the distance from the point of the explosion to the point of reception.

SUB CODE: 09 08/ SUBM DATE: 17Apr65

Card 1/1 UDC: 550.340.19

CHERVOTKIN, V.A.

Effect of various factors on the pitch precision of bevel gears.
Avt.prom. 31 no.7:39-41 Jl '65. (MIRA 18:8)

1. Saratovskiy politekhnicheskiy institut.

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

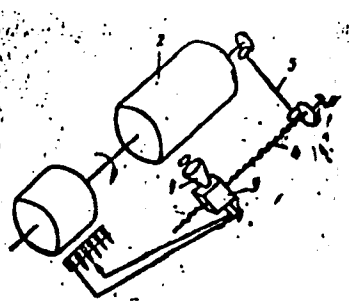
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 79

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

78-3-4-18/38

AUTHORS: Yakovlev, V. Ya., Chervonovskiy, V. I.

TITLE: On the Theory of the Stability of Binary Mixtures (K teorii ustoychivosti binarnoy smesi)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 4, pp. 936-938 (USSR)

ABSTRACT: In the present paper the investigation of the systems of binary mixtures was carried out, which mix in similar phase and at random proportion. In these investigations the integral equation by N. N. Bogolyubov was used for

$$kT\ln \mu_{a,b}(r) = F_{a,b}(r) + \sum_c \lambda \frac{n_c}{r} \int_0^\infty \rho \left\{ \int_{|r-\rho|}^{r+\rho} tE_{a,c}(t)dt \right\} \left\{ \mu_{c,b}(\rho) - 1 \right\} d\rho,$$

$$E_{a,c}(t) = \int_\infty^t \mu_{a,c}(t) \frac{dF_{a,c}(t)}{dt} ; \quad c = 1,2;$$

k = Boltzmann constant
T = temperature
For the construction of binary systems the diagram of binary

Card 1/2

On the Theory of the Stability of Binary Mixtures

mixtures was constructed by means of the mentioned equation by Bogolyubov and by a graphical method.
The investigations of the stability of binary mixtures by the method of statistical physics explain the formation of the solidus- and liquidus curve only by molecular forces.
The graphical connection between t^0 and the concentration of the components is similar to the graphical liquidus-solidus curve. There are 1 figure and 5 references, all of which are Soviet.

ASSOCIATION: Chernovitskiy universitet, Kafedra teoreticheskoy fiziki (Chernovtsy University, Chair for Theoretical Physics)

SUBMITTED: June 25, 1957

Card 2/2

CHERVONSKIY, V.I.

Indirect complement fixation reaction in the diagnosis of ornithosis in animals. Nauch. inform. Otd. nauch. med. inform. AMN SSSR no.1:35-37 '61 (MIRA 16:11)

1. Institut virusologii im. D.I.Ivanovskogo (direktor - prof. P.N.Kosyakov) AMN SSSR, Moskva.

*

TERSKIKH, I.I.; CHERVONSKIY, V.I.; KAREVA, M.P.; DORMIDONTOV, R.V.; GROMYKO, A.I.; OBUKHOVSKAYA, N.M.; KOZLYAKOVA, A.I.; TAZULAKHOVA, E.B.; Prinimali uchastiye: KUZNETSOVA, T.M., vrach; LOPAROVA, L.M., vrach

Natural and secondary focus of ornithosis in the Zavidovo District of Kalinin Province. Vop.virus 7 no.4:93-99 Jl-Ag '62.
(MIRA 15:8)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva (for Terskikh, Chervonskiy, Kareva, Dormidontov, Gromyko, Obukovskaya, Kozlyakova). 2. Kalininskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya (for Kuznetsova, Loparova).
(ZAVIDOVO DISTRICT (KALININ PROVINCE--ORNITHOSIS)

CHERVONSKIY, V.I.; TERSKIKH, I.I.; BEKLISHOVA, A.Yu.

Isolation and study of the agent of benign lymphoreticulosis in man (cat scratch disease); preliminary report. Vop. virus. 8 no.3:264-268 My-Je '63. (MIRA 16:10)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
(CAT SCRATCH DISEASE) (VIRUS RESEARCH)

RATNER, Nina Aleksandrovna, prof.; CHERVONSKIY, V.I., red.

[Diseases of the kidneys and their prevention] Bolezni pochek i ikh preduprezhdenie. Moskva, Meditsina, 1965. 43 p. (MIRA 18:12)

CHERVONSKIY, V.I.

61. **Ornithosis Research Reviewed**

"The Puzzle of Ornithosis," by V. I. Chervonskiy, Scientific Associate, Institute of Virology imeni Ivanovskiy, Academy of Medical Sciences USSR, Nauka i Zhizn', Vol 24, No 3, Mar 57, pp 28-30

A brief history of ornithosis is given, including the first outbreak on a freighter with a cargo of birds from South America; and the author recalls subsequent investigations, discovery of the etiology of the disease, and isolation of the pathogen, found to be a filterable virus.

A visit to the Laboratory of Ornithosis and Atypical Pneumonia, directed by I. I. Terskikh, is discussed. The author states that the psittacosis virus, which is around 300 millimicrons in size and can be seen with an ordinary microscope, is an important link in the evolutionary chain of microorganisms and may even be a link between viruses and bacteria. Diagnostic methods, it is noted, are based on the capacity of this virus to reproduce in white mice and on the capacity of the organism to elaborate specific antibodies upon introduction of the virus. The merits of these tests is mentioned, but it is regretted that the complement fixation test is effective only in the late stages of disease (8th-10th day).

The author claims that certain antibiotics i. e., biomycin, aureomycin, tetracycline, and penicillin, effectively suppress the destructive properties of the virus and that simultaneous use of these antibiotics almost excludes the possibility of a fatal outcome.

In connection with the epidemiology of "parrot" disease and its transmission from birds to humans, the author points out that 60 species of wild and domestic birds are now known to carry the ornithosis-psittacosis virus. Examples are cited in the USSR, England, and the US. It is suggested that humans become infected via the mucous membranes of the respiratory tract.

Transmission of ornithosis-psittacosis viruses from one species of bird to another is considered, and a number of queries are raised concerning modes of transmission, what species are most susceptible to disease, whether disease can be passed from the parent to the young bird at birth, etc. The author suggests the possibility that ticks, fleas, other parasites, and rodents also carry and transmit the ornithosis virus.

He refers to 1948 investigations in which two strains of ornithosis virus were isolated; it was established that the outbreak at that time in the USSR had originated with Peking ducks. When a number of workers contracted psittacosis from parrots brought into a Moscow zoo in 1953 biomycin therapy was found to give rapid and good results.

It is announced that a rapid and infallible method of diagnosing ornithosis has been developed by Soviet scientists. The method consists of an intracutaneous test which detects the disease on the 3d-5th day, based on the production of a local inflammatory reaction upon intracutaneous introduction of a very small amount of killed virus.

In the line of prophylactic measures of a medical and veterinary nature, instruction and precautions which should be taken in proper handling of birds is offered to workers of aviaries and zoos. A vaccine produced experimentally at the Ornithosis Laboratory of the Institute of Virology will be available soon. After testing several variants, virus from the brains of infected white mice was cultured at 37° C and treated with formalin. It was established that this virus will protect monkeys infected with lethal doses of live virus. (U)

Sum 1439

TERSKIKH, I.I., CHERVONSKIY, V.I., BOLOTOVSKIY, V.M.

Construction of a chamber for working with viral and bacterial aerosols. Zhur. mikrobiol. epid. i immun. 29 no.9:130-133 S'58 (MIRA 11:10)

1. Iz Instituta virusologii imeni Ivanovskogo AMN SSSR.
(MICROBIOLOGY, appar. & instruments,
bact. & viral aerosol chamber (Rus))

TERSKIKH, I.I.; SHATKIN, A.A.; CHERVONSKIY, V.I.; MARTYNOVA, V.R.

Study of the etiology of trachoma. Report No.1: Isolation in white mice of virus agents from trachoma patients. Vest. AM SSSR 14 no.10:23-28 '59. (MIRA 13:6)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR.
(CONJUNCTIVITIS, GRANULAR)

CHERVONSKIY, V. I., Cand Med Sci -- (diss) "Antigen for reaction of complement fixation in ornithosis." Moscow, 1960. 11 pp; (Academy of Medical Sciences USSR); 200 copies; price not given; (KL, 26-60, 144)

CHERVONSKIY, V. I. ?

CHERVONOOKIY, V.I.

Case of a gastric trauma and acute appendicitis in a child. Nov. khir. arkh. no.4:105-106 Jl-Ag '60. (MIRA 15:2)

1. Granitnaya rayonnaya bol'nits, Stalinskoy oblasti. Adres avtora: Stalinskaya obl., Tel'manovskiy rayon, selo Granitnoye, rayonnaya bol'nitsa.
(STOMACH--WOUNDS AND INJURIES) (APPENDICITIS)

CHERVONSKY, V.I.

"Serolgical diagnonis of ornithosis in man and animals."

Report submitted for the 1st Intl. Congress on Respiratory Tract Diseases of Virus and Rickettsial Orgin. Prague, Czech. 23-27 May 1961.

CHERVONSKIY, V.L.; POPOVA, O.M.

Antigen for the Miyagawanella complement fixation reaction. Vop. virus 4 no.1:68-71 Ja-F '59. (MIRA 12:4)

1. Institut virusologii AMN SSSR, Moskva.
(ORNITHOSIS, immunol.
complement fixation, antigen (Rus))
(COMPLEMENT FIXATION
fixation reaction in ornithosis, antigen (Rus))

CHERVONSKIY, V.I.

Detection of complement-fixing antibodies in various species of birds and mammals in the complement fixation reaction with the antigen of ornithosis. Vop. virus. 5 no. 1:80-83 Ja-F '60. (MIRA 14:4)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.
(ORNITHOSIS) (COMPLEMENTS (IMMUNITY))

CHERVONSKIY, V.I.

Interrelation of specific antibodies with the ornighosis virus in the body of a monkey. Vop.virus. 6 no.5:622-624 S-O '60. (MIRA 14:7)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
(ORNITHOSIS) (COMPLEMENTS (IMMUNITY))

CHERVONSKIY, V.I.

Second business conference of the Moscow Institute of Research on Virus Preparations. Vop. virus. 7 no. 1:123-126 Ja-F '61. (MIRA 14:4)

(VIRUS RESEARCH)

CHERVONSKIY, V.I.

Preparation of immune serum against the ornithosis virus for the complement fixation reaction. Vop. virus. 7 no.2:248 Mr-Ap '62.
(MIRA 15:5)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
(MIYAGAVANELLA ORNITHOSIS) (SERUM)

DUDAR', Grigoriy Filippovich; CHERVONSKIY, V.I., red.

[Hygiene at home] Gigiena byta. Moskva, Meditsina, 1965.
66 p. (MIRA 18:12)

CHERVONSKIY, Ye. G.

"Regularities and Optimum Conditions of Core Drilling With Hard Alloys." Thesis for degree of Cand. Technical Sci. Sub 25 May 49, All-Union Sci Res Inst of Mineral Raw Materials

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

VOL'FSON, V.I.; GEL'FGAT, Ya.A.; ORLOV, A.V.; CHERVONSKIY, Ye.G. [deceased]

Results of drilling wells with No.7 bits. Trudy VNIIBT no.14:33-43 '65. (MIRA 18:5)

CHERVONYASHCHIY, A.F.; LEKHNE, I.B., inzh.

R75 rails are being laid into the track. Put' i put.khoz. no.10:16-18 O '58. (MIRA 11:12)

1. Nachal'nik putevoy mashinnoy stantsii No.1, st. Bezymyanka Kuybyshevskoy dorogi. (for Chervonyashchiy).
(Railroads--Rails) (Railroads--Track)

CHERVONYY, A., kandidat tekhnicheskikh nauk, dotsent podpolkovnik.

Simplify the rules of fire for adjustment from 82 mm. mortars. Voen. vest. 36 no.4:61-69 Ap '56. (MLRA 9:8)
(Mortars (Ordnance))

CHERVONYY, A., doktor tekhn.nauk, polkovnik; KORENEV, M., inzhener-podpolkovnik

Indexes of the reality of firing operations. Voen.vest. 42 no.9:86-88 S '62. (MIRA 15:8)
(Artillery)

YEPIFANOV, Aleksandr Dmitriyevich; KRUG, G.K., kand. tekhn. nauk, dots., retsenzent; SVECHINSKIY, V.B., inzh., retsenzent; CHERVONYY, A.A., doktor tekhn. nauk, prof., nauchn. red.

[Reliability of automatic control systems] Nadezhnost' avtomaticheskikh sistem. Moskva, Mashinostroenie, 1964. 335 p. (MIRA 18:1)

CHERVONYY, D.Kh. prepodavatel' kursa infektsionnykh bolezney (Odessa)

"Infectious diseases" by K.V. Bunin. Reviewed by D.Kh. Chervonyi
Fel'd. i akush. 23 no.10:60-62 O '58 (MIRA 11:11)
(COMMUNICABLE DISEASES)

CHERVOTKIN, V.A.

Control of the precision of machine tools for cutting bevel gears. Standartizatsiia 26 no.2:21-23 F '62. (MIRA 15:2)
(Gear-cutting machines--Testing)

CHERVOTKIN, V. A., aspirant

Precision calculation of machine tools for cutting bevel gears.
Izv. vys. ucheb. zav.; mashinostr. no.7:184-191 '62.
(MIRA 16:1)

1. Saratovskiy politekhnicheskiy institut.

(Gear-cutting machines)

CHERVOTKIN, V.A.

Effect of the errors of kinematic chains of various bevel-gear cutting machines on the precision of machining. Stan.i instr. 34 no.4:16-19 Ap '63. (MIRA 16:3)
(Gear-cutting machines)

L 62486-65 EWT(d)/EWA(d)/EWP(v)/T/EWP(k)/EWP(h)/EWP(l)

ACCESSION NR: AP5018152

AUTHOR: Chervotkin, V. A.

TITLE: Effects of different factors on the pitch accuracy of bevel gears

SOURCE: Avtomobil'naya promyshlennost', no. 7, 1965, 39-41

TOPIC TAGS: gear cutting, circular pitch, bevel gear, gear accuracy/ 5255 gear cutting machine, 5255A gear cutting machine, 525 gear cutting machine, 5A27S4 gear cutting machine

ABSTRACT: The effects of different factors on the circular pitch accuracy of bevel gears manufactured on machine models 5255, 5255A, 5A27S4, 525, and others are discussed. The major errors in circular pitch are introduced by the [illegible] of the cutting head on the machine [illegible] of the [illegible]. The change in circular pitch due to geometric eccentricity e_g and so-called kinematic eccentricity e_k is given as

$$\Delta t = 2e \sin\left(\frac{\pi}{z_k}\right) \cos\left[\frac{\pi}{z_k}(2z_p + 1)\right];$$

$$(\Delta t)_{max} = \pm 2e \sin\left(\frac{\pi}{z_k}\right).$$

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ACCESSION NR: AP5018152

(where e is replaced by e_g or e_k respectively; z_k = number of teeth on gear; z_p = tooth numb[illegible] to z_k), and the change due to inaccurate indexing head dimensions is given as [illegible] micron (where $\Delta\phi_d$ = angular index error in seconds, d_k and d_d = cutter and indexing head diameters respectively). As an example, the calculated and measured inaccuracies of a 6-tooth gear machined on machine [illegible] [illegible] that the calculated [illegible] [illegible] 9.[illegible] microns, while the [illegible] [illegible] in the same pattern. In using [illegible] determined whether the circular pitch error contributions due to different [illegible] are in phase. Orig. art. has: 3 figures, 1 table, and 5 formulas.

[illegible]: Saratovskiy politekhnicheskiy institut (Saratov Polytechnical Institute)

SUBMITTED: [illegible] ENCL: 00 SUB CODE: [illegible]

[illegible] OTHER: 000

Card 2/2

LAZAREV, B.L.; BOKOVIKOV, B.A.; BABUSHKIN, N.M.; TIMOFEYEV, V.N.; CHERVOTKIN, V.V.; PRIVALOV, S.I.

Heat exchange and reduction in the stack of a furnace operating on 100% fluxed sinter. Stal' 25 no.6:487-492 Je '65. (MIRA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat i Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki.

CHERVOV, A.A.

Changes in the cellular and protein makeup of the spinal fluid caused by subarachnoidal administration of streptomycin [with summary in French]. Probl.tub. 36 no.3:57-61 '58 (MIRA 11:5)

1. Iz terapevticheskogo otdeleniya (nav. - starshiy nauchnyy sotrudnik Ye.N. Zorin) Gosudarstvennogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (zam. dir. po nauchnoy chasti - prof. D.D. Aseyev).
(TUBERCULOSIS, MENINGEAL, ther.
streptomycin, subarachnoidal admin., eff. on CSF protein & leukocytes (Rus))
(STREPTOMYCIN, ther. use
meningeal tuberc., subarachnoidal admin., eff. on spinal fluid albumin & leukocytes (Rus))

DOBROVOL'SKIY, I.P.; PATRIKEYEVA, L.M.; Prinimali uchastiye: CHERVOV, A.P.; KOSTENKO, A.R.; PARTINA, T.V.

Utilization of pitch distillates for the production of high temperature pitch. Koks i khim. no.4:48-50 '61. (MIRA 14:3)

1. Chelyabinskiy metallurgicheskiy zavod (for Dobrovol'skiy, Patrikeyeva).
(Chelyabinsk—Pitch)

DOBROVOL'SKIY, I.P.; KOSTENKO, A.R.; CHERVOV, A.P.

Changes in the method of pitch preparation. Koks i khim. no.8: 33-34 '61. (MIRA 15:1)

1. Chelyabinskiy metallurgicheskiy zavod.
(Chelyabinsk--Coke ovens) (Pitch)

SHEMERYANKIN, B.V.; DOBROVOL'SKIY, I.P.; KOSTYUNIN, I.K.; KOPELIOVICH, L.V.; DUBOVIK, A.N.; Prinimali uchastiye: KOSTENKO, A.R.; VAKHTOMOV, S.P.; CHERVOV, A.P.

Ways of reducing the porosity of pitch coke. Koks i khim. no.2:25-29 '62. (MIRA 15:3)

1. Chelyabinskiy metallurgicheskiy zavod (for Shemeryankin, Dobrovol'skiy, Kostyunin, Kopeliovich, Kostenko, Vakhtomov, Chervov). 2. Koksokhimstantsiya (for Dubovik).
(Coke)

TKACH, V.K., dotsent; CHERVOV, V.G., dotsent.

Changes in the dielectric properties of the blood in horses during thermal inactivation. Sbor.trud.Khar'.vet.inst. 21:135-143 '52. (MLRA 9:12)

1. Kafedra radiofiziki Khar'kovskogo gosuniversiteta, Kafedra fiziki Khar'kovskago veterinarnogo instituta.
(Blood--Analysis and chemistry) (Dielectrics)
(Horses--Physiology)

CHERVOV, V G.

PHASE I BOOK EXPLOITATION SOV/5452

Donskoy, Ya. Ye., O.I. Kardash, and I.P. Lyalyuk, eds.

Mekhanizatsiya i avtomatizatsiya; sbornik statey ob opyte vnedreniya mekhanizatsii i avtomatizatsii na Khar'kovskikh mashinostroitel'nykh zavodakh (Mechanization and Automation; Collection of Articles on the Introduction of Mechanization and Automation in Khar'kov Machinery-Manufacturing Plants) [Khar'kov] Khar'kovskoye knizhnoye izd-vo, 1960. 373 p. 5,500 copies printed.

Editorial Board: S.A. Vorob'yev, Candidate of Technical Sciences; Chairman of the Editorial Board; P.I. Zenga, Engineer; A.A. Kahlov, Engineer; V.I. Kuzmov, Engineer, A. Ye. Leonov, Docent, A.Z. Tupitsyn, Candidate of Technical Sciences, and S.M. Khnara, Candidate of Technical Sciences; Eds.: Ya. Ye. Donskoy, O.I. Kardash, and I.P. Lyalyuk; Tech. Ed.: M.I. Limsova.

PURPOSE: This collection of articles is intended for technical and scientific personnel, outstanding workers, and shock workers of communist labor.

COVERAGE: The multifaceted experience of Khar'kov enterprises in the mechanization, automation, and improvement of manufacturing processes is generalized. The development of new machines, instruments, and production methods is considered and attention is given to newly established enterprises, and to the introduction of telemechanics in the Khar'kov gas-system management. By including concrete examples and facts, the authors of the various articles attempt to demonstrate the achievements of the Khar'kov industrial complex in fulfilling the resolutions of the June (1959) and July (1960) Plenums of the Central Committee of the Communist Party of the Soviet Union. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

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L 10928-67 EWT(1) SCTB DD/GD

ACC NR: AT6022295 SOURCE CODE: UR/0000/66/000/000/0080/0084

35

AUTHOR: Chervov, V. G.; Bugay, Yu. P.

ORG: none

TITLE: Some aspects of functional simulation of nerve elements and systems

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya bioniki. Doklady. Moscow, 1966, 80-84

TOPIC TAGS: bionics, model, nervous system, physiologic parameter

ABSTRACT: The large amount of factual material accumulated in neurophysiology should be used more widely for the design of appropriate models of nerve elements and systems. The great complexity and dynamic characteristics of the parameters of nerve tissues can be broadly reproduced on models with readily available means if the modeling process is based on the internal processes of the nervous cell taking into account its dynamic properties and the universality of its characteristics. The study of the characteristics of the nervous tissue during transitions between functional states permits the incorporation of the totality of the known physiological properties of nerve elements into a system and to supplement the physiological simulation premises by new facts, not previously used for simulation.

SUB CODE: 06/ SUBM DATE: 08Apr66/ ORIG REF: 004

Card 1/1 blp

L 10929-67 EWT(1) SCTB DD/GD

ACC NR: AT6022298 SOURCE CODE: UR/0000/66/000/000/0098/0099

35

AUTHOR: Bazdyrev, V. I.; Chervov, V. G.

ORG: none

TITLE: The design of neuron group models

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya bioniki. Doklady. Moscow, 1966, 98-99 and page 134

TOPIC TAGS: model, bionics, nervous system, neuron, neurophysiology

ABSTRACT: One of the basic problems of modern bionics is the design and study of neuron group models. Following a brief discussion of criteria useful for the design of neuron groups, the authors chose for group simulation fundamental neuron models which have multiple inputs (5), can be spacially added, incorporate retardation, have a standard form of output pulses, have a low output resistance, and are periodically excited. The neuron model with positive feedback through the synapsis (integrating type circuit) can be excited, whereas the positive and negative feedback models have the property of adaptation. The paper describes a neuropulse counter circuit made of 9 neuron models, and a neuropulse generator made of 7 neuron models.

SUB CODE: 05,06/ SUBM DATE: 08Apr66

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CHERVOVA, G.I.

25(0) PHASE I BOOK EXPLOITATION SOV/1789

Akademiya nauk SSSR. Institut fizicheskoy khimii

Teoriya i praktika elektroliticheskogo khromirovaniya (Theory and Practice of Electrolytic Chromium Plating) Moscow, Izd-vo AN SSSR, 1957. 231 p. 5,000 copies printed.

Resp. Eds.: Vagramyan, A.T., Professor, N.T. Kudryavtsev, Professor, and M.A. Shluger, Candidate of Technical Sciences; Ed. of Publishing House: Yegorov, N.G.; Tech. Ed.: Pavlovskiy, A.A.

PURPOSE: This book is for engineers, industrial workers, members of scientific research institutions and teachers concerned with modern methods of electroplating and the manfacture of corrosion-resistant metallic instruments.

COVERAGE: The collection contains sixteen reports and the texts of several discussions presented before the March 1955 Conference on the Theory and Practice of Chromium Plating, sponsored jointly by the Institute of Physical Chemistry, AS USSR, and the Moscow Scientific, Engineering and Technical Society for Instrument Making. The reports reflect the conference's aim of a wide exchange of opinion on problems of chromium electrodeposition and offer solutions

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