VANYAKIN, D.M., kand.tekhn.nauk

Readers' letters. Vod. i san. tekh. no.8:36 Ag '58. (MIRA 11:9)

1. Institut sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury SSSR.
(Water-supply engineering)

VANYAKIN, D.M.

Compensator installation. Vod. i san. tekh. no.5:12 My '59.
(MIRA 12:7)

(Pipe joints)

KAGAN, D.F., kand. tekhn.nauk; VANYAKIN, D.M.; YEKHLAKOV, S.V., inzh.; IFTINKA, G.A., red.izd-va; KASIMOV, D.Ya., tekhn. red.

[Basic recommendations on the use of pressure pipes made of low-density polyethylene (high pressure)] Osnovnye rekomendatsii po primeneniiu napornykh trub iz polietilena nizkoi plotnosti (vysokogo davleniia). Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 63 p. (MIRA 15:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki.
(Pipe, Plastic) (Polyethylene)

KAGAN, D.F., kand. tekhn.nauk; VANYAKIN, D.N., kand. tekhn. nauk; LOBACHEV, P.V., kand. tekhn. nauk; YEKHLAKOV, S.V., inzh.; PAVLOV, L.D., inzh.; RUZIN, M.Ya., inzh.; ANDREYEVA, I.N., inzh.; SHMAKOVA, G.D., inzh. Prinimali uchastiye: SAPOZHNIKOV, M.M., kand. tekhn. nauk; GEFDING, A.K., kand. tekhn. nauk; MALINOVSKIY, R.B., inzh.; STRASHNYKH, V.P., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Instructions for designing, installing, operating, and repairing interior water supply systems using vinyl plastic pipes] Ukazaniia po proektirovaniiu, montazhu, ekspluatatsii i remontu vnutrennikh vodoprovodov iz viniplastovykh trub. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 91 p. (MIRA 15:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki. 2. Nauchno-issledovatel'skiy institut sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury SSSR (for Kagan, Vanyakin, Lobachev, Yekhlakov, Pavlov, Ruzin, Andreyeva, Shmakova). 3. Leningradskiy nauchno-issledovatel'skiy institut Akademii kommunal'nogo khozyaystva im. K.D.Pamfilova (for Sapozhnikov). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (for Gefding). 5. Institut po proyektirovaniyu zhilishchno-grazhdanskogo stroitel'stva v g. Moskve (for Malinovskiy).
(Water pipes)

S/081/61/000/019/071/085
B117/B110

AUTHORS: Shevelev, F. A., Kogan, D. F., Vanyakin, D. M.

TITLE: Application of tubes made of high-density polyethylene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 479, abstract 19P28 (Vodosnabzh. i san. tekhn., no. 3, 1961, 13-17)

TEXT: Production methods of polyethylene tubes, their properties and fields of application are described. Methods for connecting polyethylene tubes are given and an assortment of pressure tubes made of high-density polyethylene is listed. [Abstracter's note: Complete translation.]

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SHEVELEV, F.A.; VANYAKIN, D.M.; LOBACHEV, P.V.; YEKHLAKOV, S.V.

Designing, assembling, using, and repairing interior water pipes made of vinyl plastic. Sbor.trud.NIIST no.8:5-25 '61. (MIRA 15:5)

(Pipe, Plastic)

VAN'YAN, L.L.

Theoretical curves of marine electrical sounding by a bottom apparatus. Prikl.geofiz. no.15:83-90 '56. (MLRA 10:1)
(Sounding and soundings)

VAN'YAN, L.L.

On the theory of dipole electromagnetic sounding. Prikl. geofiz. no.16:145-160 '57. (MLRA 10:8)
(Prospecting--Geophysical methods)

VAN'YAN, L.L.

VAN'YAN, L.L., Cand Tech Sci -- (diss) "Certain problems of the theory of the electromagnetic frequency soundings of horizontal strata." Mos, 1958. 12 pp (Min of Higher Education USSR. Mos Geo Prospecting Inst im Ordzhonikidze. Chair of Prospecting Geophysics). (KL, 20-58-96)

VAN'YAN, L.L.

Some problems in the theory of frequency sounding of horizontal strata. Prikl. geofiz. no.23:3-45 '59. (MIRA 13:1)
(Electric prospecting)

VAN YAN, L.L.

3(5,6) PHASE I BOOK EXPLOITATION SOV/2899

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Prikladnaya geofizika; sbornik statey, vyp. 23 (Applied Geophysics; Collection of Articles, No.23) Moscow, Gostoptekhizdat, 1959. 242 p. 3,500 copies printed.

Ed.: M.K. Polshkov; Exec. Ed.: N.N. Kuz'mina; Tech. Ed.: A. S. Polosina.

PURPOSE: This book is intended for scientific, engineering, and technical personnel of industrial geophysical exploration services.

COVERAGE: This is a collection of 14 articles by various authors on aspects of geophysical exploration. The material treated in the articles may be divided into four categories: the physical properties of rocks in specific geological regions, methods and techniques used in industrial geophysical exploration, concepts in the theory of electrical exploration, and the economics involved in

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geophysical operations. Specifically, the authors discuss the geologic structures of the central parts of the Russian Platform, southwestern Turkmenia, the West Siberian Plains, the eastern part of the Siberian Platform, and the Minusinsk basins; electrical frequency sounding, neutron logging, gamma spectrometry techniques, and the standard equipment and installations of the geophysical services of the petroleum industry in the USSR. References accompany each article.

TABLE OF CONTENTS:

Yan'yan, L.L. Some Problems in the Theory of Frequency Sounding of Horizontal Bedding 3

Kalinina, R.V. Regularities in the Changes of the Physical Properties of Devonian Rocks in the Central Parts of the Russian Platform 46

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Nikolayevskiy, A.A. Density Characteristics of the Geological Profile of the Eastern Part of the Siberian Platform 112

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Temkin, A.Ya. Methods of Solving Problems in Neutron Logging 141

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Nedostup, G.A., F.N. Prokof'yev, A.I. Kholin, and A.P. Tsitovich. Use of Differential Gamma-Spectrometry in Petroleum Geology 193

Voskoboynik, N.I. The Speed of Electrical Logging in Combined Measurements With an Arbitrary Division of Channels 202

Polyakov, Ye. A. An Equivalent Electrical Schematic for an Electrode 217

Abb, E.A., V.M. Zaporozhets, R.I. Plotnikov, and L.A. Khutsishvili. Some Problems in the Design of a Borehole Neutron Generator 226

Kozlov, P.T. Basic Assets of the Geophysical Services in the Petroleum Industry of the USSR 234

AVIALABLE: Library of Congress

Card 4/4

MM/bg
12-21-59

VAN'YAN, L.L.

Resolving power [illegible] prospecting. Geol. i geofiz. no. 9:109-111 '60. (MIRA 14:2)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.
(Electromagnetic prospecting)

VAN'YAN, L.L.

Theoretical principles of the production of an electromagnetic field. (MIRA 13:6)
Prikl.geofiz. no.25:66-95 '60.
(Electric prospecting)

VAN'YAN, L.L.

Magnetic field in the far zone of a dipole. Geol. i geofiz. no.5:125-127 '60. (MIRA 13:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
(Electromagnetic prospecting)

VAN'YAN, L.L.; GASANENKO, L.B.; SHOLPO, G.P.

Asymptotic representation of the electromagnetic field of a low-frequency dipole. Uch. zap. LGU no.286:232-235 '60. (MIRA 14:3)

(Electromagnetic prospecting)

9,9700

S/169/62/000/009/049/120
D228/D307

AUTHORS: Van'yan, L. L., Morozova, G. M. and Lozhenitsyna, L.V.

TITLE: Theoretical curves of the induced polarization method

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 39, abstract 9A261 (Geologiya i geofizika, no. 10, 1961, 118-123)

TEXT: The induced polarization phenomenon is considered as a quasistatic process, describable by Laplace's equation. Electric dipoles, arising within a polarizing body under the action of the field current, are presumed to be the sources of the induced polarization's emf. When calculating theoretical curves, a change is made from the volume distribution of secondary dipoles to the surface distribution of charges. The main quantity studied in induced polarization vertical electric sounding is the apparent polarizability η_{app}. η_{app} is calculated on the basis of the formula given for its magnitude (which is correct when the polarizability values

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of separate beds are low); the calculation's basis is the expression of the subintegral function through hyperbolic cotangents. The theoretical curves of η_{app}, computed from the derived formula, are compared with the corresponding curves of vertical electric sounding. It is noted that the curves of η_{app} possess a high resolving power. [Abstracter's note: Complete translation.]

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S/169/63/000/001/059/062
D263/D307

AUTHORS: Berdichevskiy, M.N. and Van'yan, L.L.

TITLE: Electromagnetic fields in thin-layered media

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1963, 31, abstract 1D173 (Tr. In-ta geol. i geofiz. Sib. otd. AN SSSR, 1961, no. 11, 63-72)

TEXT: A calculation is given of alternating and constant electromagnetic fields in a horizontally laminated medium, represented by an infinite succession of sheets of thickness h and resistivities ρ_1 and ρ_2. The field of a plane electromagnetic wave, studied in magnetotelluric prospecting, (also in magnetotelluric sounding and magnetotelluric profiling) and the field of the point source of direct current, studied in vertical sounding, are discussed. Calculations are given which allow the determination of conditions under which a horizontal-laminar medium may be regarded as uniformly anisotropic.

[Abstracter's note: Complete translation]

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VAN'YAN, L.L.; TEREKHIN, Ye.I.; SHTIMMER, A.I.

Method for calculation of frequency sounding wave curves.
Prikl.geofiz. no.30:92-102 '61. (MIRA 14:10)
(Electric prospecting)

VAN'YAN, L.L.; KAUFMAN, A.A.; TEREKHIN, Ye.I.

Calculation of frequency sounding phase curves. Prikl.geofiz. no.30:103-114 '61. (MIRA 14:10)
(Electric prospecting)

VAN'YAN, L.L.

New method for determining the electromagnetic field of a dipole grounded on the surface of a multilayered isotropic medium. Geol. i geofiz. no.12:107-109 '62. (MIRA 16:3)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.
(Electric prospecting) (Antennas (Electronics))

VAN'YAN, L. L.; MOROZOVA, G. M.

Dot charts for the interpretation of the generation of a magnetic field. Dokl. AN SSSR 147 no.6:1359-1360 D '62.
(MIRA 16:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom A. L. Yanshinym.

(Magnetic prospecting)

VAN'YAN, L.L.; BOBROVNIKOV, L.Z.; BOGDANOV, A.Sh., red.;
BORUSHKO, T.I., red.izd-va; BYKOVA, V.V., tekhn. red.;
IVANOVA, A.G., tekhn. red.

[Electric prospecting in the method of inducing a magnetic field] Elektrorazvedka po metodu stanovleniia magnitnogo polia. Moskva, Gosgeoltekhizdat, 1963. 183 p. (MIRA 16:6)
(Magnetic prospecting)

VAN'YAN, L.L.; MOROZOVA, G.M.

Chart for the interpretation of frequency sounding. Geol.i geofiz. no.7:100-102 '63. (MIRA 16:10)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

VAN'YAN, L.L.

Electromagnetic field of a harmonic dipole grounded to a multilayer surface of an anisotropic medium. Izv. AN SSSR. Ser. geofiz. no.8: 1222-1224 Ag '63. (MIRA 16:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Predstavleno chlenom redaktsionnoy kollegii Izvestiy AN SSSR, Seriya geofizicheskaya, N.V.Zvolinskim.
(Electric prospecting)

VAN'YAN, L.L.

Nonuniformity of the asymptotic behavior of a variable electromagentic field of a quasi-stationary dipole. Geol.i geofiz. no.10:160-162 '63. (MIRA 17:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

VAN'YAN, L.L.

Generation of an electromagnetic field in an anisotropic layer..
Izv. AN SSSR. Ser. geofiz. no.10:1532-1539 O '63. (MIRA 16:12)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

VAN'YAN, L.L.

Quantities characterizing the generation of an electromagnetic field. Izv. AN SSSR. Ser. geofiz. no.11:1691-1693 N '63. (MIRA 16:12)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

ZAGARMISTR, A.M. [deceased]; VAN'YAN, L.L.; KOROL'KOV, Yu.S.; TEREKHIN, Ye.I.

Electric prospecting by the field production method. Izv. vys. ucheb. zav.; geol. i razv. 6 no.9:120-132 S '63.
(MIRA 17:10)

1. Novosibirskiy institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

VAN'YAN, L.L.; MOROZOVA, G.M.; BELONOSOVA, A.V.; ZHIGUL'SKAYA, T.A.

Solution of direct problems of electric prospecting by means of electronic computers. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.21:122-132 '63. (MIRA 17:11)

VAN'YAN, L. L.

Effect of poor conductivity of the base on the generation of a magnetic field. Izv. AN SSSR.Ser,geofiz. no. 4:562-563 Ap '64. (MIRA 17:5)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

VAN'YAN, L.L.

Electric sounding by the spontaneous polarization method. Razved. i okh. nedr. 30 no.3:39-43 Mr '64 (MIRA 18 :1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

VAN'YAN, L.L. ; MOROZOVA, G.M.; LOZHNITSYNA, L.V.

Frequency sounding above an anisotropic bed. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.39:68-75 '64. (MIRA 18:4)

VAN'YAN, L.L.; ZHIGIL'SKAYA, T.A.; OMEL'CHENKO, G.K.

Tables for calculating the theoretical curves of frequency sounding in a distant zone. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.39:76-175 '64. (MIRA 18:4)

VAN'YAN, L.I.

Effect of poorly conducting shields on setting up an electromagnetic field. Prikl. geofiz. no.40:86-94 '64 (MIRA 18:1)

VAN'YAN, L.L.; TEREKHIN, Ye.I., kand. geol.-miner. nauk, red.

[Fundamentals of electromagnetic sounding] Osnovy elektromagnitnykh zondirovanii. Moskva, Nedra, 1965. 105 p.
(MIRA 18:8)

L 4293-66 EWT(1)/FCC GW

ACCESSION NR: AP5024213 UR/0020/65/164/003/0559/0562

AUTHORS: Fotiadi, E. E. (Corresponding member AN SSSR); Van'yan, L. L.; Kharin, Ye. P.

TITLE: Deep magnetic-variation sounding in south-central Siberia and in Transbaikal

SOURCE: AN SSSR. Doklady, v. 164, no. 3, 1965, 559-562

TOPIC TAGS: geomagnetic field, specific resistance, earth crust, rock

ABSTRACT: Analysis has shown that by using a type of magnetic variation it is possible to determine local changes in resistivity with depth. This is the essence of magnetic-variation sounding. Magnetic variations with periods of 0.5 to 4 hours (so-called "bays") appear at distances of $y \geq 1500$-2000 km from the quasilinear polar current flowing near 70° N. Lat. This current is the source of the magnetic field. Work at the Institut geologii i geofiziki (Institute of Geology and Geophysics) during 1962-63 on the Siberian platform of south-central Siberia and in Transbaikal revealed a number of these "bays," systematically distributed. Although the conductance of the sedimentary sequence changed from almost zero to 500-600 mhos, this had no appreciable effect on the intensity or

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L 11093-66

ACCESSION NR: AP5024213

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form of geomagnetic variations in the region northwest of Lake Baikal, but toward the southwest it contributed as much as 50% of the variation. Apparent resistivity for this region was found to decrease with increase in period (within the range from 0.5 to 3 hours); i.e., the resistivity decreased with increase in depth of penetration of the field. Two types of curves were obtained: one with high apparent resistivity northwest of the Baikal basin, and another with low apparent resistivity southeast of the basin. This indicates increased geothermal activity of the upper mantle in the folded Baikal and Transbaikal regions as compared with the Siberian platform. There is a considerable variation in thickness of the crust in the Baikal region, and a sharp isostatic inequilibrium obtains among individual blocks of the crust, which adjust along deep fractures. Orig. art. has: 4 figures.

ASSOCIATION: Institut geologii i geofiziki, Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Geology and Geophysics, Siberian Branch of the Academy of Sciences, SSSR)

SUBMITTED: 20Jan65 ENCL: 00 SUB CODE: ES

NO REF SOV: 011 OTHER: 006

Card 2/2 gp

VAN'YAN, L.L.

Late stage in the establishment of an electromagnetic field.
Geol. i geofiz. no.6:150-153 '64. (MIRA 18:11)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

L 44340-66 EWT(1) GW

ACC NR: AT6020748 SOURCE CODE: UR/2552/65/000/046/0090/0100

AUTHOR: Van'yan, L. L.; Terekhin, Ye. I.; Shtimmer, A. I.

ORG: none

TITLE: A method of calculating theoretical curves for transient processes induced by square current pulses

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki. Prikladnaya geofizika, no. 46, 1965, 90-100

TOPIC TAGS: electromagnetic field, frequency characteristic, heat conductivity

ABSTRACT: Curve characteristics of electromagnetic fields induced by applied square-current pulses in the earth were investigated using the equation for heat conductivity of a harmonic system and the transformation of frequency characteristics of a geoelectrical cross section into a transient process using a Fourier integral. The Fourier integral is given as

$$\rho_\tau = \frac{1}{2\pi}\int_{-\infty}^{+\infty} \rho_\omega \frac{e^{-i\omega t}}{-i\omega}\, d\omega,$$

where ρ_τ is the apparent resistivity obtained from a stimulated electromagnetic field,

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ACC NR: AT6020748

Q_ω is the apparent resistivity from a method of frequency probing, and $\mathrm{Re}\,Q_\omega$ is the real part of Q_ω. The function $\mathrm{Re}\,Q_\omega$ is considered as the sum of elementary trapezoids $\Delta \mathrm{Re}\,Q_\omega$, and the corresponding trapezoidal frequency characteristics Q_t are evaluated. By using a table of single transient processes, the curves of frequency probing are transformed into stimulated electromagnetic field curves. The study shows that the method of transformation is well suited to the construction of theoretical and experimental curves of stimulated fields on the basis of frequency probing. Orig. art. has: 3 figures, 12 formulas, and 1 table. [14]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 009

Card 2/2 blg

L 26576-66 EWT(1)/FCC GW

ACC NR: AP6017356 SOURCE CODE: UR/0203/66/006/001/0165/0166

AUTHOR: Van'yan, L. L.; Marderfel'd, B. Ye.

ORG: Sakhalin Scientific Research Institute for Comprehensive Studies, SO AN SSSR (Sakhalinskiy Kompleksnyy nauchno-issledovatel'skiy institut SO AN SSSR)

TITLE: Patterns of behavior of geomagnetic bays on Sakhalin

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 1, 1966, 165-166

TOPIC TAGS: earth magnetic field, electric conductivity, magnetic field, geomagnetism

ABSTRACT: In 1964 the variable magnetic field was recorded on Sakhalin by variometers at Okha, Aleksandrovsk, Uglegorsk and Yuzhno-Sakhalinsk. Analysis of the results of observation of the vertical component of geomagnetic bays with a duration of 1-3 hours shows that the form of the record with a distance between observation points up to 800 km varies insignificantly. With respect to amplitude δZ it decreases smoothly to the south. It was found that δZ varies approximately inversely proportional to the cube of the distance to the auroral zone and the observed values systematically are exaggerated in comparison with the theoretical values by an average of 15%. The stations mentioned were characterized by appreciably different surface geoelectric conditions. The thickness of unconsolidated conducting rocks varies from 5-7 km in the north to several hundred meters in the south. Distance of the stations to deep parts of the sea also varied considerably. It is concluded on the basis of the presented data that in this region there are no sharp anomalies of electrical conductivity of the upper

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L 26576-66

ACC NR: AP6017356

mantle. It is shown that by using geomagnetic bays in the middle latitudes it is possible to study the deep distribution of electrical conductivity without separation of the observed field of variations into outer and inner parts. Orig. art. has: 1 figure, 1 table, and 1 formula. [JPRS]

SUB CODE: 08, 20 / SUBM DATE: 06Feb65 / ORIG REF: 001

Card 2/2

VAN'YAN, L.L.

Basic quality characteristics of the theoretical curves of the formation of a field. Geol. i geofiz. no.3:162-166 '64. (MIRA 18:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

FOTIADI, E.E.; VAN'YAN, L.L.; KHARIN, Ye.P.

Magneto-variational depth soundings in southern Middle Siberia and in Transbaikalia. Dokl. AN SSSR 164 no.3:559-562 S '65.
(MIRA 18:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
2. Chlen-korrespondent AN SSSR (for Fotiadi).

VAN'YAN, L.L.; DAVYDOV, V.M.

Distortion of the late stage of establishment of a magnetic field by a nonconducting inclusion. Izv. AN SSSR. Fiz. zem. no.6:23-30 '65. (MIRA 18:7)

1. Institut neftekhimicheskoy i gazovoy promyshlennosti imeni Gubkina.

VAN'YAN, M.L.

Fractionation of crude tall oil. Lakokras. mat. i ikh prim. no. 6:31-34 '60. (MIRA 13:12)

1. Nauchno-issledovatel'skiy institut mestnoy promyshlennosti pri Gosplane RSFSR.
(Tall oil)

VAN'YAN, M.L., inzh.

Isolating fatty acids from tall oil by means of urea. Masl.-zhir. prom. 26 no.9:28-30 S '60. (MIRA 13:8)

1. Nauchno-issledovatel'skiy khimicheskiy institut pri Gosplane RSFSR.
(Acids, Fatty) (Tall oil) (Urea)

VAN'YAN, M.L.

Fuller utilization of by-products from the sulfate pulp production. Bum.prom. 35 no.10:12-14 O '60. (MIRA 13:10)

1. Vserossiyskiy nauchno-issledovatel'skiy khimicheskiy institut.
(Woodpulp industry--By-products)

VAN'YAN, M.L.; ASKINAZI, A.I.

Separation of fatty acids from the distillation vat residue. Izv. vys.ucheb.zav.; pishch.tekh. no.1:95-99 '64. (MIRA 17:4)

1. Moskovskiy nauchno-issledovatel'skiy tekhnokhimicheskiy institut, laboratoriya po pererabotke i ispol'zovaniyu otkhodov khimicheskikh proizvodstv.

SUMAROKOV, Viktor Pavlovich VAN'YAN, Mariya L'vovna; ASKINAZI, Anna Il'inichna; TULPAKOV, B.V., red.

[Tall oil] Tallovoe maslo. Moskva, Lesnaia promyshlennost', 1965. 146 p. (MIRA 18:3)

VANYAN, Robert Melikovich, inzh.-mekhanik; FILIPENOK, T.G., red.; KUZ'MENKOVA, N.T., tekhn. red.

[Mechanization of livestock farms; work practices at the state farms and collective farms in the Chechen-Ingush A.S.S.R.] Mekhanizatsiia zhivotnovodcheskikh ferm; iz opyta raboty sovkhozov i kolkhozov Checheno-Ingushetii. Groznyi, Checheno-Ingushskoe knizhnoe izd-vo, 1962. 57 p. (MIRA 15:3)
(Chechen-Ingush A.S.S.R.--Farm mechanization)
(Chechen-Ingush A.S.S.R.--Stock and stockbreeding)

S/032/60/026/010/003/035
B016/B054

AUTHORS: Uvarova, E. I. and Vanyarkina, N. M.

TITLE: Complexometric Determination of Tetraethyl Lead in Ethylated Benzines

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 10, pp. 1097-1101

TEXT: The authors studied the possibility of a complexometric determination of tetraethyl lead in ethylated benzines without previous separation of the lead halide compound (contrary to recommendations of ГОСТ(GOST) 63-52 and 5337-55, and Refs. 1-4). They destroyed the organic lead compounds dissolved in benzine by means of bromine dissolved in CCl_4. It was found that - in contrast to inorganic lead compounds - the resulting slightly soluble lead salts were easily soluble in diisobutylene as well as in methyl and ethyl alcohol. In the exchange reactions of bromine with diisobutylene or primary alcohols, hydrogen bromide is formed which favors the decomposition of the organic lead compound and its passage into the solution. After short boiling of the resulting solution with alkali,

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the color change of the indicator at the point of equivalence in the titration of lead with Trilon B (in the presence of eriochrome black T at pH = 10) is just as distinct as in the titration of aqueous solutions of inorganic lead compounds (Ref. 4). As filtration and extraction are not necessary, the entire determination can be made in one flask with minimum time expenditure (10-15 min) and minimum consumption of reagents. The method suggested was tested on various specimens of ethylated benzine of the type A-66 (A-66) (see Table). The standard method (ГОСТ 63-52, GOST 63-52) was used for control. Finally, the authors describe the course of analysis, and give a formula for calculating the content of tetraethyl lead in benzine (in g/kg). There are 1 table and 4 references: 2 Soviet and 2 German.

UVAROVA, E.I.; VANYARKINA, N.M.; KUCHEROVA, N.V.

Causes of the contamination of battery sulfuric acid by nitrogen oxides during its production from hydrogen sulfide. Khim.prom. no. 1:52-54 Ja '64. (MIRA 17:2)

AFANAS'YEVA, N.A.; VANYARKOV, E.B.; NIKOL'SKIY, Kh.Sh.; MEL'NIKOV, D.Ye., doktor ist. nauk, red.; BACHININ, G.I., red.; CHATSKAYA, M.G., tekhn. red.

[Ruhr Valley as the economic basis of West-German militarism] Rur - ekonomicheskaia baza zapadnogermanskogo militarizma. (MIRA 17:2)

VANYASHEN, P.G.; NEMIONOV, A.G.

Changing beam warping machines into machines of "soft warping."
Obm.tekh.opyt. [MLP] no.15:3-17 '56. (MIRA 11:11)
(Warping machines)

L 18853-63 EWG(s)-2/EWT(1)/BDS/ES(v) AFFTC/APGC Pw-4/Pe-4 MLK(a)
ACCESSION NR: AP3007664 S/0206/63/000/011/0081/0081

AUTHOR: Vanyashin, D. I. 63

TITLE: Airfield deceleration installation. Class 62, No. 155102

SOURCE: Byul. izobret. i tovarn. znakov, no. 11, 1963, 81

TOPIC TAGS: deceleration, aircraft deceleration, deceleration force, braking force, aircraft arrested landing, arresting gear, shock absorbing device

ABSTRACT: A patent has been issued for an airfield installation for continuous deceleration of airplanes (see Fig. 1 of the Enclosure). The installation consists of a combination of sets of braking drums and guiding pulleys. A mechanism composed of mobile stands with rubber shock absorbers is used to provide a smooth increase of braking effort on the cable and a quick return of the entire installation to its initial state.

ASSOCIATION: none

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L 9808-66 EWT(m)/T/EWA(m)-2

ACC NR: AP5027997 SOURCE CODE: UR/0386/65/002/007/0333/0336

AUTHOR: Vanyashin, V. A.

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosudarstvennyy universitet)

TITLE: Contribution to the theory of weak interaction

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. (Prilozheniye), v. 2, no. 7, 1965, 333-336

TOPIC TAGS: weak nuclear interaction, baryon, lepton, boson, vector meson, neutrino

ABSTRACT: The author analyzes the baryon-lepton weak interaction on the basis of the hypothesis that there exists an intermediate boson possessing baryon and lepton charges. This hypothesis implies a number of interactions with neutral lepton currents, with coupling constant satisfying the single condition

$$G_{ee}\, G_{\nu_e\nu_e} = G_{\mu\mu}\, G_{\nu_\mu\nu_\mu} = G^2. \qquad (1)$$

The corresponding generalization of the octed theory of N. Cabibbo (Phys. Rev. Lett. v. 10, 531, 1963) is obtained under simple assumptions concerning the unitary properties of the baryon-boson. Since the scalar baryon-boson has been proposed as an alternative to the intermediate vector boson, and since the lower limit of the baryon-boson mass is at present estimated to be much higher than for the vector-boson mass (60 Gev according to I. Bahcall (Phys. Rev. v. 136, B1547, 1964)), the author con-

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L 9808-66

ACC NR: AP5027997

siders only those consequences of the possible existence of the baryon-boson, which are conserved in the local limit. They are fully covered by the definite rules for the composition of the 4-fermion Lagrangian, an expression for which is derived. This leads to an extended variant of the Cabibbo theory, which includes also several interactions with neutral lepton currents, and whose coupling constants satisfy relation (1). The relation between this result and data obtained from neutrino experiments is discussed. It is concluded that verification of the inequalities $G_{ee}G_{\nu_e\nu_e} < G^2$ and $G_{\mu\mu}G_{\nu_\mu\nu_\mu} < G^2$ would decisively indicate the existence of some mechanism responsible for the interaction of only charged currents, for example the charged vector boson. Author thanks M. A. Markov and L. B. Okun' for valuable discussions. Orig. art. has: 6 formulas.

SUB CODE: 20/ SUBM DATE: 02Aug65/ ORIG REF: 001/ OTH REF: 005

Card 2/2

VANYASHIN, V.S.

21(1,8); 24(5) PHASE I BOOK EXPLOITATION SOV/3369

Vsesoyuznaya konferentsiya po kvantovoy teorii polya i teorii elementarnykh chastits. Uzhgorod, 1958

Problemy sovremennoy teorii elementarnykh chastits. No. 2: Trudy konferentsii... (Problems in the Modern Theory of Elementary Particles. No. 2: Transactions of the All-Union Inter-Vuz Conference on the Quantum Field Theory and the Theory of Elementary Particles) Uzhgorod, Zakarpatskoye oblastnoye izd-vo, 1959. 214 p. 5,000 copies printed.

Ed.: Yu. Lomsadze, Docent; Tech. Ed.: M. Belous.

PURPOSE: This book is intended for physicists, particularly those concerned with problems in the field of elementary particles and the quantum theory.

COVERAGE: This book contains articles on elementary particles originally read at the All-Union Inter-Vuz Conference held at Uzhgorod State University on October 25, 1958. Among the topics discussed are: the spinor field theory, the fusion theory, Lorentz contractions, parity studies, nucleon-nucleon scattering, etc. English abstracts accompany each article. References follow each article.

Sokolik, G.A. New Formulation of Fusion Theory 26

Lomsadze Yu.M., and B.I. Mikiashvili. Application of Schwinger's Variation Method to the Pair Theory 30

Sokolik, G.A. Generalization of the Lorentz Group 37

Ivanitskaya, O.S. Generalized Equivalent Potential and the Sequence of Infinitesimal Lorentz Contractions Under Rotary Motion 44

Sokolik, G.A. Representation of the Complete Lorentz Group 52

Sokolik, G.A. Connection Between the "Anomal" Representation of the Space-Time Inversion Group and the Pauli Transformations 56

Geshkenbeyn, B.V., S.A. Kamornaya, and A.P. Rudik Non-Conservation of Parity in KeK 58

Ellen'kiy, S.M., and R.M. Ryndin. Determination of Parity of Strange Particles 63

Lomsadze, Yu.M. The Possible Versions of the β^- -- Decay Theory 69

Vanyashin, V.S. Equations of the Second Order for Spinor and Vector Functions 80

Solov'yev, V.G. Conservation of the Combined Parity, as a Fundamental Law of the Symmetry in Nature 83

Geshkenbeyn, B.V. Polarization of Electrons of the Inner Conversion Subsequent to β -- Decay, Taking Into Account the Electric Field of the Nucleus 89

Sitenko, A.G. Polarization of the Nucleons Under the Stripping Reaction in the High Energy Region 99

Vyalov, Kh. Wave Equations for Elementary Particles 109

Barashenkov, V.S., and B.M. Barbashov. Some Remarks on the Inner Structure of the Nucleon 117

Solov'yev, V.G. On the Superfluid State of an Atom Nucleus 126

VANYASHIN, V.S.

Equations of the second order for spinor fields. Zhur. eksp. i teor. fiz. 39 no.2:337-339 Ag '60. (MIRA 13:9)

1. Dnepropetrovskiy gosudarstvennyy universitet.
(Particles (Nuclear physics)) (Field theory)

S/056/62/043/002/044/053
B108/B102

AUTHOR: Vanyashin, V. S.

TITLE: One possibility of using the Pauli-Villars regularization

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 2(8), 1962, 689-691

TEXT: The Pauli-Villars regularization is recommended for renormalizing the vector boson interactions in the theory of the complex vector field. Field quantization, with the Lorentz condition taken into account, leads to second-order interactions of the vector bosons; when the Lorentz condition is not taken into account, it will lead to unphysical zero-spin particles. This problem is solved by employing the Pauli-Villars regularization with the longitudinal part of the vector field used as the compensating field. The most important English-language reference is: T. D. Lee,C.N.Yang. Preprint, 1962.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University)

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S/056/62/043/002/044/053
B108/B102

One possibility of using the ...

SUBMITTED: March 28, 1962

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S/056/63/044/002/032/065
B102/B186

AUTHOR: Vanyashin, V. S.

TITLE: Theory of second-order fermion equations

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 2, 1963, 603-609

TEXT: The theory of second-order equations for fermions (Feynman, Gell-Mann, Phys. Rev. 109, 193, 1958; cf. also Brown, Phys. Rev. 111, 957, 1958; Marx, Nucl. Phys. 9, 337, 1958; 10, 168, 1959) is applied to study the possibility of a relation between chirality and electric charge. Depending on the sign of the chirality operator γ_5, the spinor fields are charged or neutral: a field with the spinor wave function $\psi_+ = \frac{1}{2}(1+\gamma_5)\psi = a\psi$ is always charged and subjected to an electromagnetic gauge transformation, while a field with $\psi_- = \frac{1}{2}(1-\gamma_5)\psi = \tilde{a}\psi$ is always electrically neutral. The spinor field Lagrangian in the case of electromagnetic interaction is given by

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Theory of second-order ...

$$\mathcal{L}_e = \frac{ie}{m}\bar{\psi}a\hat{A}\gamma^n\frac{\partial\psi}{\partial x^n} - \frac{ie}{m}\frac{\partial\bar{\psi}}{\partial x^n}\gamma^n\hat{A}a\psi + \frac{e^2}{m}A_n^2\bar{\psi}a\psi. \qquad (3),$$

for whose spinors the commutation relation $\left[\psi(x), \bar{\psi}(y)\right]_+ = -imD(x-y)$ remains valid. With

$$\psi' = \frac{i}{m}\gamma^n\frac{\partial\psi}{\partial x^n}, \qquad \bar{\psi}' = -\frac{i}{m}\frac{\partial\bar{\psi}}{\partial x^n}\gamma^n.$$

$$\langle T^*(\psi'(x)\bar{\psi}'(y))\rangle_0 = -imD^c(x-y). \qquad (4b).$$

When ψ is taken to describe both protons and neutrons, the baryon gauge transformation $\psi \to e^{i\gamma_5\Lambda}\psi$, $\bar{\psi} \to \bar{\psi}e^{-i\gamma_5\Lambda}$ is assumed. The conservation laws for isotopic spin and electric charge are discussed. The second-order equation is also applied for describing the interaction between nucleons and pions. The Lagrangian

$$\mathcal{L}_n = ig\varphi_i B_i = ig\varphi_0\left(\bar{\psi}\psi - \frac{1}{m^2}\frac{\partial\bar{\psi}}{\partial x^m}\gamma^m\gamma^n\frac{\partial\psi}{\partial x^n}\right) + \qquad (15)$$

$$+\sqrt{2}g\varphi\bar{\psi}C^{-1}\gamma_5\frac{1}{m}\gamma^n\frac{\partial\psi}{\partial x^n} + \sqrt{2}g\varphi^*\frac{1}{m}\frac{\partial\bar{\psi}}{\partial x^n}\gamma^n\gamma_5 C\bar{\psi}.$$

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Theory of second-order ...

With

$$\psi_p = a\psi + \bar{a}\psi^c, \quad \psi_n = \bar{a}\psi^c + a\psi^c,$$

$$\bar{\psi}_p = \bar{\psi}a + \bar{\psi}^c\bar{a}, \quad \bar{\psi}_n = \bar{\psi}^c a + \bar{\psi}^c a. \tag{16}$$

$$\bar{\psi}_{p,n} = \psi^+_{p,n}\gamma^0 \text{ и } \bar{\psi} = \psi^+\gamma^0,$$

and the commutation relation

$$[\psi_p(x), \bar{\psi}_p(y)]_+ = [\psi_n(x), \bar{\psi}_n(y)]_+ = -iS(x-y). \tag{17}$$

can be rewritten as

$$\mathcal{L}_s = ig(\varphi_0\bar{\psi}_p\gamma_5\psi_p - \varphi_0\bar{\psi}_n\gamma_5\psi_n + \sqrt{2}\varphi\bar{\psi}_n\gamma_5\psi_p + \sqrt{2}\varphi^*\bar{\psi}_p\gamma_5\psi_n). \tag{18},$$

where

$$\psi^c = C\psi, \quad \bar{\psi}^c = -\bar{\psi}C^{-1}; \quad C = -C^T = (C^{-1})^*, C^{-1}\gamma^n C = -\gamma^{nT}. \tag{8}.$$

In analogy to (4b),

$$\langle T(\psi_p(x)\bar{\psi}_p(y))\rangle_0 = \langle T(\psi_n(x)\bar{\psi}_n(y))\rangle_0 = -iS^c(x-y) \tag{19}$$

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Theory of second-order ...

is valid. Similar considerations are made for other baryons (Ξ, Σ, Λ). The property of universal weak interaction to change the chirality is expressed by its vector-axial structure and the charge of the weak currents. The transitions $n \to p$ and $\Sigma^0 \to \Sigma^+$ are governed by V-A interaction, the transitions $\Sigma^- \to \Sigma^0$, $\Xi^- \to \Xi^0$ by V+A:

$$J^n = \bar{\psi}_n \gamma^n a \psi_p + 2\bar{\Sigma}^0 \gamma^n a \Sigma^+ + 2\bar{\Sigma}^- a \gamma^n \Sigma^0 + \bar{\Xi}^- a \gamma^n \Xi^0. \qquad (24).$$

From a comparison of the electromagnetic

$$\psi \to \exp(ie a \Lambda)\psi, \quad \bar{\psi} \to \bar{\psi} \exp(-ie a \Lambda).$$

the baryonic

$$\psi \to e^{i\tau_3 \lambda}\psi, \quad \bar{\psi} \to \bar{\psi} e^{-i\tau_3 \lambda},$$

and the leptonic

$$\psi \to e^{i\lambda}\psi, \quad \bar{\psi} \to \bar{\psi} e^{-i\lambda}$$

gauge transformations, it could be concluded that for the Universe the

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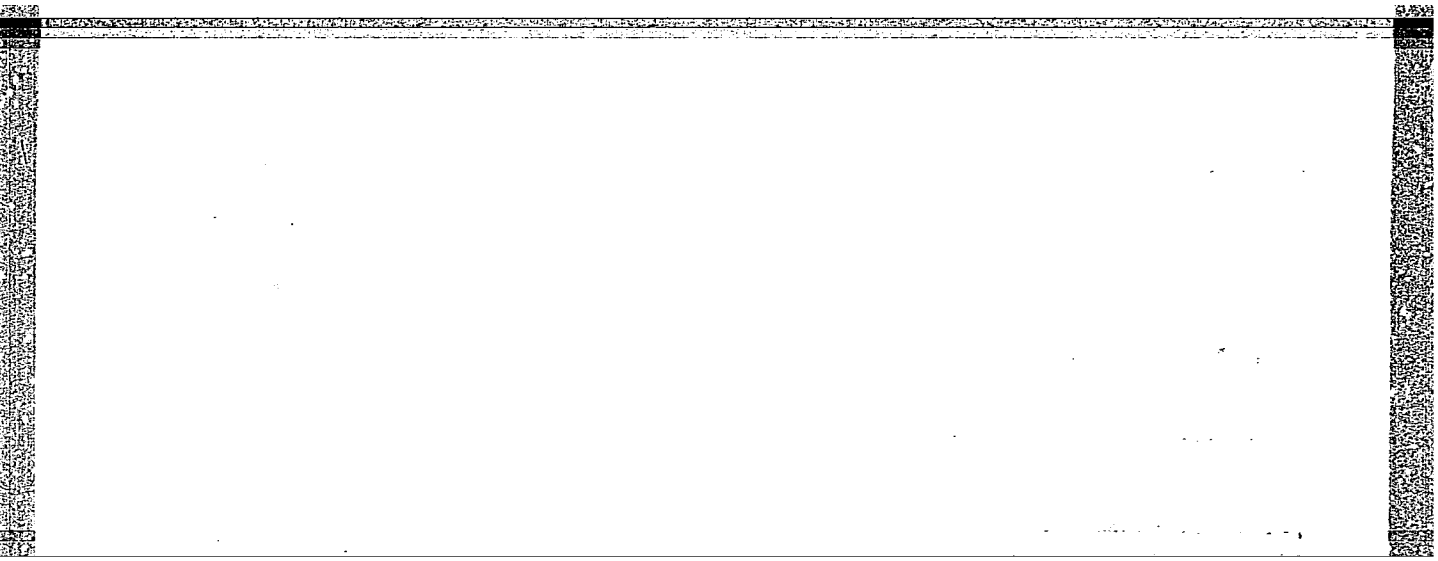
Theory of second-order ...

relation B - L = 0 would be valid. In this case $\nu_e > \tilde{\nu}_e$, the excess being equal to the number of bound neutrons. Electric charge, the third component of the isospin and the baryonic charge of the ψ field are assumed to be related by $Q = T_3 \pm B/2$ (minus holds, for example, for the Ξ-field).

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University)

SUBMITTED: July 28, 1962

Card 5/5



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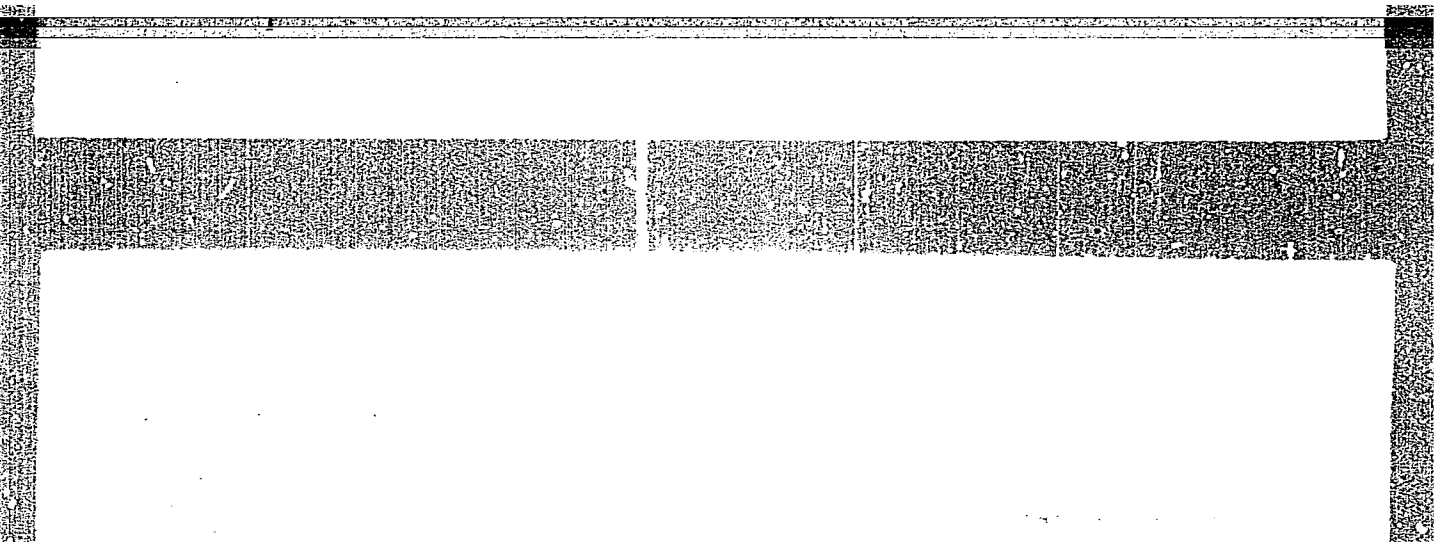

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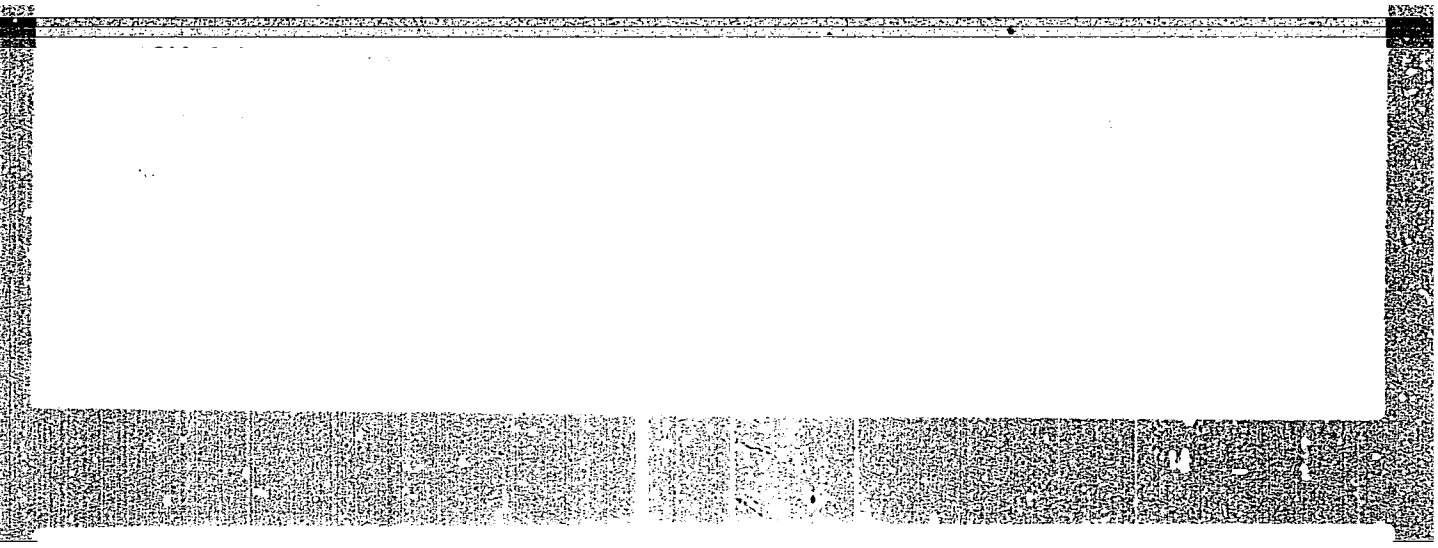

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VANYASHIN, V.S.

Theory of weak interaction. Pis'. v red. Zhur. eksper. i teoret. fiz. 2 no. 7:333-336 O '65. (MIRA 18:12)

1. Dnepropetrovskiy gosudarstvennyy universitet. Submitted Aug. 2, 1965.

FRIDSHTEYN, I.L.; ZIMINA, N.A.; VANYASHINA, K.A.

Effect of reduction and oxidation on the activity of alumina-chromium oxide catalysts. Part 1: Reduction of the catalysts. Kin. i kat. 2 no.1:103-111 Ja-F '61. (MIRA 14:3)

1. Institut Giprokauchuk.
(Alumina) (Chromium oxide)(Reduction, Chemical)

VANYASHKIN, G. A.

"Technical Data on the MIG-15 Aircraft, Engine and Related Parts," G.A.Vanyashkin, Engr. Capt., A.V.Belyayev, Captain, V.V.Ul'rikh, Tech-Lieut., and V.P.Makovskiy, Tech.-Lieut.

AT - 144160
F-TS-8250/III

VANYASHOV, P.G.

MARKOV, N.F.; NEMNONOV, A.G.; VANYASHOV, P.G.

NMV machine for cleaning the edges of fabrics. Tekst.prom. 14 no.10:45-47 O '54. (MLRA 7:10)
(Textile machinery)

VAN'YAT, Yur.

Seventh All-Union Trade-Union Spartakiada. Sov.profsoiuzy 17 no.12:44-46 Je '61. (MIRA 14:6)

1. Sportivnyy obozrevatel' zhurnala "Sovetskiye profsoyuzy." (Moscow—Sports)

VAN'YAT, Yur.

Big season. Sov.profsoiuzy 18 no.14:46-47 Jl '62. (MIRA 15:7)

1. Sportivnyy obozrevatel' "Sovetskikh profsoyuzov."
(Sports)

VAN'YAT, Yu.

Spartakiada of sixty millions. Sov. profsoiuzy 19 no.14:32-34 Jl '63. (MIRA 16:9)

1. Sportivnyy obozrevatel' zhurnala "Sovetskiye profsoyuzy". (Sports)

VAN'YAT, Yur.

"White Spartakiada" of trade unions. Sov.profsoiuzy 19 no.4:31 F '63. (MIRA 16:2)

1. Chlen organizatsionnogo komiteta po podgotovke i provedeniyu V zimney Spartakiady professional'nykh soyuzov.
(Winter sports—Competitions)

VAN'YAT, Yur.

Multiply the ranks of athletes. Sov. profsoiuzy 19 no.20:40-43 O '63. (MIRA 16:11)

1. Sportivnyy obozrevatel' zhurnala "Sovetskiye profsoyuzy".

YADULLAYEV, N.N.; SHARUTIN, A.S.; RUSTAMBEKOV, A.F.; OGLOBLINA, G.P.; ALIYEV, T.A.; VANYAVKIN, B.P.; GURVICH, M.L.

Oil well drilling in the Kyursangya area. Burenie no.3:7-10 '65. (MIRA 18:5)

1. "AzNIIburneft'" i trest "Aznefterazvedka".

VANYAIEV, Nikolay Alekseyevich; ZEL'TSMAN, L.N., red.; POTREBICH, M.N., tekhn. red.

[What we saw in Japan] Chto my videli v IAponii. Vladivostok, Primorskoe knizhnoe izd-vo, 1961. 126 p. (MIRA 14:10)
(Japan—Fisheries)

ZVEZDOV, I.M., inzh.; VANYAYEV, N.A., inzh.

Production-line construction of electrolysis shops.
Prom. stroi. 40 no.9:2-6 '62. (MIRA 15:11)

1. Trest Kuznetskpromstroy.
(Aluminum plants)
(Concrete construction)

VANYEK M U

[illegible] electrodes and generated by a 20,000-v. condenser of 0.01 μfarad, were exam[illegible]. The broadening [illegible]

VANYEK, M. L.

4

The wave-length shift of emission spectra. Árpád Bardócz, Márta U. Vanyek, and Tibor Vores. *Magyar Fiz. Folyóirat* 7, 117-28(1959).—The shifts of wave lengths of emission spectra were investigated as a function of excitation time. The observed shifts can be classified in 3 groups. To the 1st belong those with $nsnp - ns(n+2)s$ electron transition, their wave length shift is the largest. Those of the smallest wave shift belong to $nsnp - ns(n+1)s$ electron transition. Those of an intermediate wave length shift have an electron transmission type: $nsnp - ns(n+1)d$. The shift is always toward red, and is largest at the beginning of excitation, then diminished. Zn, Cd, Hg, and Mg were investigated. The wave length shift for electron transitions of the same type are identical for elements of the same column of the periodic system. E. Ropa

Determination of field charge and ionic density based on time of spark discharge. Árnád Bardocz, Tibor Voros, and Márta U. Vanyek. *Magyar Fizikai Folyóirat* 7, 375-84 (1959); cf. *C.A.* 54, 1066h.—Some addnl. expts. were carried out with Mg, Zn, Cd, and Hg. The results are plotted as wave-length shift *vs.* spark-discharge time. Calcns. of field strength intensity in the spark channel were based on Unsold's theory (*C.A.* 21, 2006) and those of ionic d. on that of Holtsmark (*Ann. Phys.* 58, 577(1919)). The field strength intensity in the spark channel at the beginning of the spark discharge was found to be 600 kv./cm., but decreased later. The ionic d. after 10 μsec., was found to be around 10^{18} and an order of 10 less after 50 μsec.; this is in good agreement with results of similar investigations.

U. VANYEK, Marta; BARDOCZ, Arpad; VOROS, Tibor.

Temperature determination in spark discharge. Magy kem folyoir 66 no.12[illegible] B '60.

1. Ercbanyaszati Feltaro Vallalat es Kozponti Fizikai Kutato Intezet, Budapest.

BARDOCZ, Arpad; VOROS, Tibor; U. VANYEK, Marta

Process in time of the widening of spectral lines and ion concentration in the spark discharge. Magy fiz folyoir 10 no.4:251-258 '62.

VANYEYEV, I. I., referent

Flotation of sulfide copper-nickel ores at the Lynn Lake plant.
Obog. rud. 7 no.6:42 '62. (MIRA 16:4)

(Canada—Flotation)

ALDASY, Pal, dr., az allatorvostudomanyok kandidatusa; VANYI, Andras, dr.

Observations on the application of rabbit virus vaccine against swine fever in large swine houses. Magy allatorv lap. 17 no.7:241-246 Jl '62.

1. Miskolci Allategeszsegugyi Intezet igazgatoja. (for Aldasy).
2. Borsod-Heves megyei Allami Gazdasagok Igazgatosaganak foallatorvosa (for Vanyi).

ALDASY, Pal, dr., az allatorvostudomanyok kandidatusa; VANYI, Andras, dr.

Occurrence of atrophic rhinitis in the offspring of imported pigs. Magy allatorv lap 17 no.8:291-295 Ag '62.

1. Miskolci Allategeszsegugyi Intezet igazgatoja (for Aldasy).
2. Borsod-Heves megyei Allami Gazdasagok Igazgatosaganak fo-allatorvosa (for Vanyi).

HUNGARY

MURANYI, Ferenc, Dr, VANYI, Andras, Dr; Hungarian Academy of Sciences, Animal Health Research Institute (MTA --Magyar Tudomanyos Akademia-- Allategeszsegugyi Kutato Intezete) (director: MESZAROS, Janos, Dr, candidate of Veterinary Sciences) and The Directorate of the State Farms of Borsod-Heves Megye (A Borsod-Heves Megyei Allami Gazdasagok Igazgatosaga) (chief veterinarian: VANYI, Andras, Dr).

"Studies on Abortions Caused by Salmonella Abortus Equi in Mares."

Budapest, Magyar Allatorvosok Lapja, Vol 6, No 18, June 63, pp 239-241.

Abstract: [Authors' English summary modified] Studies are reported on abortions caused by Salmonella abortus equi on a stud farm. In 1961, half of the pregnant mares aborted. S.a.e. was isolated from all aborted fetuses although no macroscopic or microscopic lesions were demonstrated. The serum of the aborted mares gave negative results on complement fixation for antibodies to virus abortion. In the blood of mares and some of the stallions, complement fixing antibodies as well as O- and H-agglutinins were found. S.a.e. was isolated from the feces of a number of stallions and mares. In the following year, part of the mares were vaccinated against S.a.e. Since abortus was absent among the non-vaccinated group as well, the effectiveness of the vaccine could not be evaluated. It is suggested that, in addition to the pathogenic germ, disposing environmental circumstances are also necessary for the abortions. 6 Western, 1 Eastern European reference.

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HUNGARY

ALDASY, Pal, Dr., Candidate of Veterinary Sciences, MATE, Zsuzsanna, Dr., and VANYI, Andras, Dr., of the Institute for Animal Hygiene (Allategesz-segugyi Intezet) in Miskolc (Director: ALDASY, Pal,), and Directorate for the State Farms in Magye Borsod-Heves (Borsod-Heves Megyei Allami Gazda-sagok Igazgatosaga)(Veterinarian-in-Chief: VANYI, Andras)[location not given].

"Investigations on the Viral Gastroenteritis in Pigs"

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 6, Jun 1966, pp 247-251.

Abstract: A viral gastroenteritis epidemic occurred during the spring of 1965 in ten units of six State farms. This disease has not been previously observed in pigs in Northern Hungary. The findings were described and discussed with especial emphasis on epidemological and diagnostic factors. After a period of about one month the epidemic subsided as fast as it broke out. It was not possible to trace the route of the infestation. Some histological data obtained in the investigations was presented. 14 references, including 1 German, 1 Japanese, 3 Hungarian, and 9 Western.

1/1

VANYKOV, A.V.; UTKIN, N.I.

Surface tension in melts of the FeO - SiO_2 - CaO system. Nauch. dokl.vys.shkoly; met. no.3:22-24 '58. (MIRA 11:11)

1. Moskovskiy institut tsvetnykh metallow i zolota.
(Surface tension) (Systems (Chemistry))

ACC NR: AT7004428 (A) SOURCE CODE: UR/0000/66/000/000/0199/0202

AUTHOR: Pavlov, I.M. (Corresponding member AN SSSR); Mekhed, G.N.; Van Y -Min

ORG: none

TITLE: Effect of the roller surface temperature and rolling speed in low-temperature thermomechanical treatment on the mechanical properties of 45KhNT and 60KhNYu steels

SOURCE: AN SSSR. Institut metallurgii. Napryazhennoye sostoyaniye i plastichnost' pri deformirovanii metallov (Stress condition and plasticity during metal deformation). Moscow, Izd-vo Nauka, 1966, 199-202

TOPIC TAGS: HOT ROLLING, TENSILE STRENGTH, ELONGATION, high strength steel, ~~steel~~ thermomechanical treatment, ~~low temperature thermomechanical treatment, steel property,~~ low alloy steel/45KhNT steel, 60KhNYu steel

ABSTRACT: Specimens of 45KhNT and 60KhNYu steels, oil-quenched and tempered at 200°C for 1.5 hr, were rolled at 500°C with a 60% reduction at a constant speed of 1.25 m/sec and a roller surface temperature of 20, 150 and 250—260°C. Increasing the roller surface temperature from 20 to 250°C had a very slight effect on the tensile and yield strengths and

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hardness of 45 KhNT steel; however, the reduction of area increased from 11 to 22% and the elongation from 2.5 to 6%. Increasing the roller temperature from 20 to 250°C increased the tensile strength of 60KhNYu steel from 192—193 to 250 kg/mm^2, the reduction of area from 3.4 to 9.5%, and the elongation from 0.6 to 4.7%; however, the changes in the yield strength and hardness were insignificant. The high strength and ductility of 60KhNYu steel can be explained by a more homogeneous martensitic structure resulting from rolling with hot rollers. The steels were also rolled with a 40% reduction at a constant roller surface temperature of 250—260°C at a rolling speed varying from 0.75 to 2 m/sec. Rolling in the 0.75—1.25 m/sec range of rolling speed was found to be the most effective. It increased the tensile strength of 45KhNT steel from 220 to 230 kg/mm^2, the yield strength from 175 to 185 kg/mm^2, and the reduction of area from 20 to 24%, but had practically no effect on the steel hardness and elongation. Similarly, the tensile strength of 60KhNYu steel increased from 237 to 243 kg/mm^2, the yield strength from 163 to 171 kg/mm^2, the reduction of area from 6.5 to 7%, the elongation from 2.3 to 3.5% and the RC hardness from 60 to 61.5 units. Further increases in the rolling speed had practically no effect on the mechanical properties of 45KhNT and 60KhNYu steels under the investigated conditions of thermomechanical treatment. Orig. art. has: 6 figures. [MS]

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