Utilization of cold in wine production. I. N. Okolelov and M. R. Kotlyarenko. *Vinodelie i Vinogradarstvo S.S.S.R.* [illegible] 1956).—The cold treatment of young wines in a specially devised industrial refrigerating installation is described. At 1st, wine was chilled to −7° and then kept at −6-6.5° for 10-12 days. 2nd, the wine was further chilled to −9-10° and kept at this temp. for an addnl. 6-8 days. When the wine was poured into the cooler the pptn. of K bitartrate and the colloidal substances took place; the pptn. increased with decreasing temp. The clarifying effect of chilling was the most efficient at the temps. close to the f.p. of the wines. The concns. of alc., volatile acids, and sugar in the treated wines were not affected; however, the amts. of other wine constituents decreased markedly: dry substances 0.1-0.11% (abs.); titratable acidity 0.1-0.3 g./l.; sp. gr. at 20° 0.0001-2, while the tannin and coloring substances, color intensity, and proteins decreased 10-30, 16-99, and 19-68% (relative), resp. As a result of the pptn. of colloidal substances the surface tension of the wines increased 1.88-3.3 dynes/sq. cm. and the relative viscosity 0.08-0.11 c. Taste, bouquet, and transparency of the wines were improved by the chilling. H. Wierbicki

KOTLYARENKO, M.R.

USSR

Pure cultures of yeasts used by the wine combine "Massandra." G. N. Sienko and M. R. Kotlyarenko. *Vinodelie i Vinogradarstvo S.S.S.R.* 12, No. 4, 17–20 (1952).—Fermentative properties and industrial application of 10 different native yeasts used by the combine are described. Formation of ale, and acidity, decreasing of sugar concn., and temp. changes during the ale. fermentation of must are illustrated by diagrams. The wines obtained (port, Madeira, sherries, and champagne) showed highly acceptable qualities with respect to the chem. compn. (ale., sugar, acidity, volatile acids, and (or) aldehydes and acetals) and to organoleptic tests.

E. Werbicki

KOTLYARENKO, N. F., DOCENT

Electric Relays

Examining the magnetic system of combined direct current relays. Sbor.mauch. rab. LETIIS no. 3, 1949.

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

KOTLYARENKO, N. F.

27716. TATEVOSYAN, S. YA. — Zashchita sinkhronnykh mashin ot vypadeniya iz sinkhronnoy raboty. -- v ogl: S. V. Tatevosyan. Doklady (Akad nauk arm. SSR), T. X, No. 4, 1949, S. 157-59. — Rezyume Na Arm. Yaz. KOTLYARENKO, N. F. Issledovaniya magnitnoy sistemy kombinirovannykh rele postoyannogo toka. — Sm.27871 TYRIN, V. L. Raschet chisla priborov na stantsiyakh avtomaticheskoy dal'ney svyazi i metody uvelicheniya ispol'zovaniya avtomatizirovannykh kanalov - SM. 27878.

SO: Letopis' Zhurnal'nykh Statey, Vol 37, 1949

BARANOV, A.F., redaktor; BIZYUKIN, D.D., redaktor; VAKHNIN, M.I., otvetstvennyy redaktor toma, professor, doktor tekhnicheskikh nauk; VEDENISOV, B.M., redaktor; IVLIYEV, I.V., redaktor; MOSHCHUK, I.D., redaktor; RUDOI, Ye.F., glavnyy redaktor; SOKOLINSKIY, Ya.I., redaktor; SOLOGUBOV, V.N., redaktor; SHILEVSKIY, V.A., redaktor; ALFEROV, A.A., inzhener; ANASHKIN, B.T., inzhener; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, inzhener; BELENKO, K.M., dotsent; BORISOV, D.P., dotsent, kandidat tekhnicheskikh nauk; ZHIL'TSOV, P.A., inzhener; ZBAR, N.R., inzhener; IL'YENKOV, V.I., dotsent, kandidat tekhnicheskikh nauk; KAZAKOV, A.A., kandidat tekhnicheskikh nauk; KRAYZMER, L.P., kandidat tekhnicheskikh nauk; KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; MAYSHEV, P.V., professor, kandidat tekhnicheskikh nauk; MARKOV, M.V., inzhener; NELEPETS, V.S., dotsent, kandidat tekhnicheskikh nauk; NOVIKOV, V.A., dotsent; ORLOV, N.A., inzhener; PETROV, I.I., kandidat tekhnicheskikh nauk; PIVKO, G.M., inzhener; POGODIN, A.M., inzhener; RAMLAU, P.N., dotsent, kandidat tekhnicheskikh nauk; ROGINSKIY, V.N., kandidat tekhnicheskikh nauk; RYAZANTSEV, B.S., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk; SNARSKIY, A.A., inzhener; FEL'DMAN, A.B., inzhener; SHASTIN, V.A., laureat Stalinskoy premii, inzhener; SHUR, B.I., inzhener; GONCHUKOV, V.I., inzhener, retsenzent; NOVIKOV, V.A., dotsent, retsenzent; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, retsenzent;

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiia, tsentralizatsiia, blokirovka, sviaz'. Red. kollegiia A.F.Baranov [i dr.] Glav.red. E.F.Rudoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Continued on next card)

BRYLEYEV, A.M., laureat Stalinskoy premii, inzhener; GAMBURG, Ye.Yu., inzhener, retsenzent; GOLOVKIN, M.K., inzhener, retsenzent; KAZAKOV, A.A., kandidat tekhnicheskikh nauk, retsenzent; KUT'IN, I.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; LEONOV, A.A., inzhener, retsenzent; SEMENOV, N.M., laureat Stalinskoy premii, inzhener, retsenzent; CHERNYSHEV, V.B., inzhener, retsenzent; VALUYEV, G.A., inzhener, retsenzent; METTAS, N.A., laureat Stalinskoy premii, inzhener, retsenzent; NOVIKOV, V.A., dotsent, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; SHUPLOV, V.I., kandidat tekhnicheskikh nauk, retsenzent; KLYKOV, A.F., inzhener, retsenzent; YUDZON, D.M., tekhnicheskiy redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiia, tsentralizatsiia, blokirovka, sviaz'. Red. kollegiia A.F.Baranov [i dr.] Glav.red. E.F.Rudoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Card 2) (MLRA 8:2)
(Railroads--Signaling) (Railroads--Communication systems)

KOTLYARENKO, N.F., dots., kand. tekhn. nauk.

Analyzing the ways for decreasing the use of winding copper in electromagnetic relays. Sbor. nauch. trud. LETIIZHT no.5:47-73 '53. (MIRA 11:3)

(Electric relays)

KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; VOLKOV, V.F., inzhener.

Analytic graph method of calculating and analyzing a.c. rail circuits. Sbor.nauch.trud.LETIIZHT no.6:269-290 '54. (MLRA 9:1)
(Electric railroads)

KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; VOLKOV, V.F., inzhener.

Rail circuits having track choke coils. Sbor.nauch.trud.LETIIZHT no.6:291-309 '54. (Electric railroads) (MLRA 9:1)

KOTLYARENKO, N.F., kandidat tekhnicheskikh nauk, dotsent; KIRILOV, M.M., assistent inzhener; VOLKOV, V.F., assistent inzhener.

Effect of traction current harmonics on the operation of rail track circuits. Sbor.LIIZHT no.151:261-300 '56. (MLRA 10:1)
(Electric railroads)

112-57-8-17236

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, pp 188-189 (USSR)

AUTHOR: Kotlyarenko, N. F.

TITLE: A Method of Analysis of DC Track Circuits (Metod analiza rel'sovykh tsepey postoyannogo toka)

PERIODICAL: Sb. Leningr. in-ta inzh. zh.-d. transp. (Collection of the Leningrad Institute of Railroad-Transportation Engineers), 1956, Nr 1951, pp 352-365

ABSTRACT: DC track circuits are fundamental to conductor, pulse-conductor, and code automatic block systems in steam-locomotive and diesel-locomotive sections. They can be used also on sections with AC electric traction. Study, investigation, and design of track circuits is rather difficult because the circuits operate under 3 sets of conditions——normal (regulating), shunt, and control (damaged rail conditions)——with different critical conditions for each set. Furthermore, the critical conditions depend on a number of factors, such as rail and ballast resistance, source voltage, parameters of the track-circuit components, etc.; some factors

Card 1/2

112-57-8-17236

A Method of Analysis of DC Track Circuits

have opposite effects under different conditions of track-circuit operation. In this condition, the development of clear and simple track-circuit analysis methods, which would permit investigating fundamental characteristics of those circuits, is necessary. A method of general track-circuit investigation is suggested, based on a mathematical analysis of the fundamental track-circuit equations and graphs; the method permits not only determining the conditions under which the examined relations have extremum values, but also investigating the entire course of their change, avoiding numerous calculations of particular cases. Examples are cited of analysis of all operating conditions of DC track circuits and illustrations of principal types of equations and their graphs are given. Specifically, it is pointed out that many relations in the track circuits can be expressed by a fractional linear function of the form $y = (a_1x + b_1)/(a_2x + b_2)$, whose graphs are equilateral hyperbolas with axes of coordinates as asymptotes. Relationships between the shunt sensitivity of the track circuit and the reset factor of the track relay, between track-circuit input resistance and the minimum ballast resistance (at constant DC source voltage) etc., can be expressed in terms of the above function.

N. F. K.

Card 2/2

KOTLYARENKO, NIKOLAY FEDOROVICH

VAKHNIN, Mikhail Ivanovich; VLODAVSKIY, Moisey Il'ich; IL'YENKOV, Viktor Ivanovich; KOTLYARENKO, Nikolay Fedorovich; MAYSHEV, Petr Vladimirovich; BRYLEYEV, A.M., doktor tekhn.nauk, retsenzent; RAKITO, E.I., redaktor; CHEKMENEV, N.M., redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Automatic control and telemechanics for railroad lines] Avtomatika i telemekhanika na peregonakh] Avtomatika i telemekhanika na peregonakh. Pod obshchei red. M.I.Vakhnina. Moskva, Gos.transp.zhel-dor.izd-vo, 1957. 435 p. (MIRA 10:12)
(Railroads--Signaling--Block system)

MAYSHEV, P.V.; ZHIL'TSOV, P.N.; VYKHODTSEV, V.V.; KOTLYARENKO, N.F.; BRYLEYEV, A.M.; KUT'IN, I.M.; NEUGASOV, N.M.

Seventy-fifth anniversary of the birth of Professor Nikolai Usipovich Roginskii. Avtom., telem. i sviaz' 2 no.3:34 Mr '58.
(MIRA 13:1)
(Roginskii, Nikolai, Usipovich 1883-)

AZBUKIN, P.A., prof.; LUPAL, N.V.,prof.; KOTLYARENKO, N.F., dots.;
NEUGASOV, N.M., dots.; RYAZANTSEV, B.S.,kand. tekhn. nauk,;
KIRILLOV, M.M., kand. tekhn.nauk

Outstanding specialist in the field of railroad automatic and remote control. Avtom., telem. i sviaz' 2 no. 8:43 Ag '58. (MIRA 11:8)

(Maishev, Petr Vladimirovich, 1888-)

KOTLYARENKO, N.F., kand.tekhn.nauk, dots.; ZAV'YALOV, B.A., inzh.

Selecting electric parameters for d.c. relays. Sbor.LIIZHT no.161:247-261 '58. (MIRA 11:12)
(Electric relays) (Railroads--Signaling)

KOTLYARENKO, N.F., kand.tekhn.nauk; KRUMIN, Ye.A., kand.tekhn.nauk

New variations in a.c. rail networks. Avtom.telem. i sviaz' 3 no.12:15-16 D '59. (MIRA 13:4)
(Electric railroads)

KOTLYARENKO, N.F., kand.tekhn.nauk; KUROVSKIY, M.V., inzh.

Use of single-wire rail networks. Avtom., telem. i sviaz' 4 no.7:4-7 Jl '60. (MIRA 13:7)
(Electric relays) (Railroads--Electric equipment)
(Shielding (Electricity))

KOTLYAREV[illegible], N.F., dots.

Strengthen the ties between institutions of higher learning and industry. Avtom.telem. i sviaz' 4 no.11:10-11 N '60. (MIRA 13:11)
(Railroads--Employees--Education and training)

KOTLYARENKO, Nikolay Fedorovich; VOLKOV, V.F., inzh., starshiy prepodavatel', retsenzent; LEONOV, A.A., inzh., retsenzent; SHISHLYAKOV, A.V., kand. tekhn. nauk, retsenzent; PENKIN, N.F., kand. tekhn. nauk, nauchnyy red.; BOBROVA, Ye.N., tekhn. red.

[Electric rail circuits] Elektricheskie rel'sovye tsepi. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 326 p. (MIRA 14:8)
(Railroads--Signaling)

KOTLYARENKO, N.F., kand.tekhn.nauk; KUROVSKIY, M.V., inzh.

Application of the functions of the complex variable for the general analysis of a.c. rail track circuits. Vest.TSNII MPS 21 no.3:15-19 '62. (MIRA 15:5)

1. Khar'kovskiy institut inzhenerov zheleznodorozhnogo transporta im. S.M.Kirova i Omskiy institut inzhenerov zheleznodorozhnogo transporta.

(Electric railroads--Rails)

PANFILOV, K.K.; KOTLYARENKO, N.F.; ZRAZHEVSKIY, G.N.

First electrical engineers graduated by the S.M. Kirov Railroad Engineering Institute in Kharkov. Avtom., telem. i sviaz' 8 no.4:17-18 Ap '64. (MIRA 18:2)

1. Dekan fakul'teta avtomatiki, telemekhaniki i svyazi Khar'kovskogo instituta inzhenerov zheleznodorozhnogo transporta im. S.M. Kirova (for Panfilov). 2. Zaveduyushchiy kafedroy "Avtomatika i telemekhanika" Khar'kovskogo instituta inzhenerov zheleznodorozhnogo transporta im. S.M. Kirova (for Kotlyarenko). 3. Zaveduyushchiy kafedroy "Transportnaya svyaz'" Khar'kovskogo instituta inzhenerov zheleznodorozhnogo transporta im. S.M. Kirova (for Zrazhevskiy).

KOTLYARENKO, N.F.; ZRAZHEVSKIY, G.M.

A great methodological and scientific work. Avtom., telem. i sviaz' 8 no.8:47-48 Ag '64. (MIRA 17:10)

1. Zaveduyushchiy kafedroy "Avtomatiki i telemekhanika" Khar'kovskogo instituta inzhenerov zheleznodorozhnogo transporta im. S.M. Kirova (for Kotlyarenko). 2. Zaveduyushchiy kafedroy "Transportnaya svyaz'" Khar'kovskogo instituta inzhenerov zheleznodorozhnogo transporta im. S.M. Kirova (for Zrazhevskiy).

KOTI[illegible]; [illegible]; [illegible]; SHAPEN, I.Z., inzh.

[illegible] of the operation of track circuits in sectors with reinforced concrete ties. Avtom., telem. i svyaz' 9 no.7:12-14 Jl '65.
(MIRA 18:8)

KOTLYARENKO, N.V., kand. tekhn. nauk; MANOSHIN, N.K., inzh.; TSETSURA, I.A., inzh.; LEONOV, A.A., inzh., retsenzent; GLUZMAN, I.S., kand. tekhn. nauk, red.; VOROTNIKOVA, L.F., tekhn. red.

[Track circuits] Rel'sovye tsepi. Moskva, Transzheldorizdat, 1963. 142 p. (MIRA 16:10)
(Railroads--Signaling)(Railroads--Electric equipment)

KOTLYARENKO, V.; YUDINA, N.

Automotive transportation unit of communist labor. Avt.transp. 41 no.2:6-8 F '63. (MIRA 16:2)
(Electrostal'—Transportation, Automotive)

YEVDOKIMENKO, A.I.; KOTLYARENKO, V.V.

Transfer of periodic processes in nonferrous metallurgy to continuous ones. Sbor. nauch. trud. Gintsvetmeta no.19:521-535 '62. (MIRA 16:7)

(Nonferrous metals—Metallurgy)

YEVDOKIMENKO, A.I.; KOTLYARENKO, V.V.

Studying the dispersion and circulation of liquid metals in drop condensers. Sbor. nauch. trud. Gintsvetmeta no.23:182-193 '65. (MIRA 18:12)

YEVDOKIMENKO, A.I.; KOTLYARENKO, V.V.; Prinimali uchastiye: RABICHEVA, L.M.; SYROVEGINA, K.V.; LEVIN, I.Kh.; GAVRILENKO, A.F.; RYABOV, A.V.; ALYUSHIN, Ye.I.; MARCHENKO, V.G.; BOLOTIN, L.G.; AFONIN, P.I.; SEVER'YANOV, G.N.

Heat exchange and the condensation of zinc vapor in drop condensers. Sbor. nauch. trud. Gintsvetmeta no.19:536-549 '62. (MIRA 16:7)

1. Sotrudniki Gosudarstvennogo nauchno-issledovatel'skogo instituta tsvetnykh metallov (for Rabicheva, Syrovegina, Levin, Gavrilenko, Ryabov). 2. Belovskiy tsinkovyy zavod (for Alyushin, Marchenko, Bolotin, Afonin, Sever'yanov).

TORBIN,I.; RUDOY,M.; KOTLYAREVSKAYA,G.

Make the analysis of mixed feed quality speedier and cheaper.
Muk.-elev.prom. 21 no.4:28 Ap '55. (MLRA 8:7)

1. Krasnodarskiy trest Glavmuki
(Feeding and feeding stuffs)

KOTLYAREVSKIY, K.V.[deceased]; KOTLYAREVSKAYA, G.A.; SMIRNOV, A.V., red.; SHENDAREVA, L.V., tekhn. red.; MILIKESOVA. I.F., tekhn. red.

[Economical expenditure of veneer] Ratsional'nyi raskhod stroganoi fanery. Moskva, TSentr.in-t tekhn. informatsii i ekonomicheskikh issl. po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1962. 43 p. (MIRA 16:9)
(Veneers and veneering)

MAKUSHKIN, Georgiy Vasil'yevich; KOTLYAREVSKAYA, G.A., red.

[Synthetic films in the manufacture of furniture] Sinteticheskie plenki v proizvodstve mebeli. Leningrad, 1964. 21 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Serila: Derevoobrabatyvaiushchaia promyshlennost', no.2)
(MIRA 17:7)

KOSTYLEV, A.S.; KOTLYAREVSKAYA, G.A.

Project of technical specifications at Soviet Republics level for glued veneer for keyboard musical instruments. Der.prom. 11 no.11:13-14 N '62. (MIRA 15:12)
(Veneers and veneering—Standards)

KASHINA, Tat'yana Sergeyevna; KOTLYAREVSKAYA, G.A., st. nauchn. sotr., retsenzent; ZAYTSEVA, N.N., prepodavatel', retsenzent; LIOGON'KIY, B.L., inzh., otv. red.; ANPILOGOV, A.V., red.

[Technology of wood finishing; manual on laboratory experiments for students of the faculty of the mechanical technology of wood] Tekhnologiia otdelki drevesiny; posobie k laboratornym rabotam dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1963. 42 p. (MIRA 17:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli (for Kotlyarevskaya).

NOVIKOV, Sergey Vladimirovich; KOTLYAREVSKAYA, G.A., red.

[Consumers' claims concerning the design and qua.ity of furniture] Ekspluatatsionnye pretenzii k konstruktsii i kachestvu mebeli. Leningrad, 1965. 17 p. (MIRA 18:7)

MININ, Andrey Yefimovich; VIKHOREV, Boris Andreyevich; KOTLYAREVSKAYA, G.A., red.

[Operation of units for electrostatic spray painting] Ekspluatatsiia elektrookrasochnykh ustanovok. Leningrad, 1965. 26 p. (MIRA 18:7)

KOTLYAREVSKAYA G. G.

DUKHIN, A.L.; KOTLYAREVSKAYA, G.G.

Tumors of the occipital lobe simulating lesions of the posterior cranial fossa. Vop.neirokhir. 19 no.5:41-47 S-O '55. (MLRA 8:11)

1. Iz Instituta neyrokhirurgii Ministerstva zdravookhraneniya USSR.

(OCCIPITAL LOBE, neoplasms,
differ. diag. from tumors of posterior cranial fossa)

SOV/112-59-2-3143

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 128 (USSR)

AUTHOR: Kotlyarevskaya, G. G.

TITLE: Rectangular Drying Cabinet (a Surgical Sterilizer)
(Pryamougol'nyy sushil'nyy shkaf /Khirurgicheskiy sterilizator/)

PERIODICAL: Materialy po obmenu opytom i nauchn. dostizh. v med. prom-sti, 1957, Nr 6 (25), pp 44-50

ABSTRACT: Bibliographic entry.

Card 1/1

Kotlyarevskaya, G. G.

KOTLYAREVSKAYA, G.G. (Kiyev)

Hypertensive manifestations and focal otoneurological symptoms of tumors of the central line of the posterior cerebral fossa. Vrach. delo no.11:1201-1203 N '57. (MIRA 11:2)

1. Nauchno-issledovatel'skiy institut neyrokhirurgii Ministerstva zdravookhraneniya USSR.
(BRAIN--TUMORS)

KOTLYAREVSKAYA, G. G., Candidate Med Sci (diss) -- "Otoneurological symptoms of tumors of the central line of the posterior cranial fossa (of the vermis cerebelli and the fourth ventricle)". Kiev, 1959. 19 pp (Kiev Order of Labor Red Banner Med Inst im Acad A. A. Bogomolets), 200 copies (KL, No 24, 1959, 150)

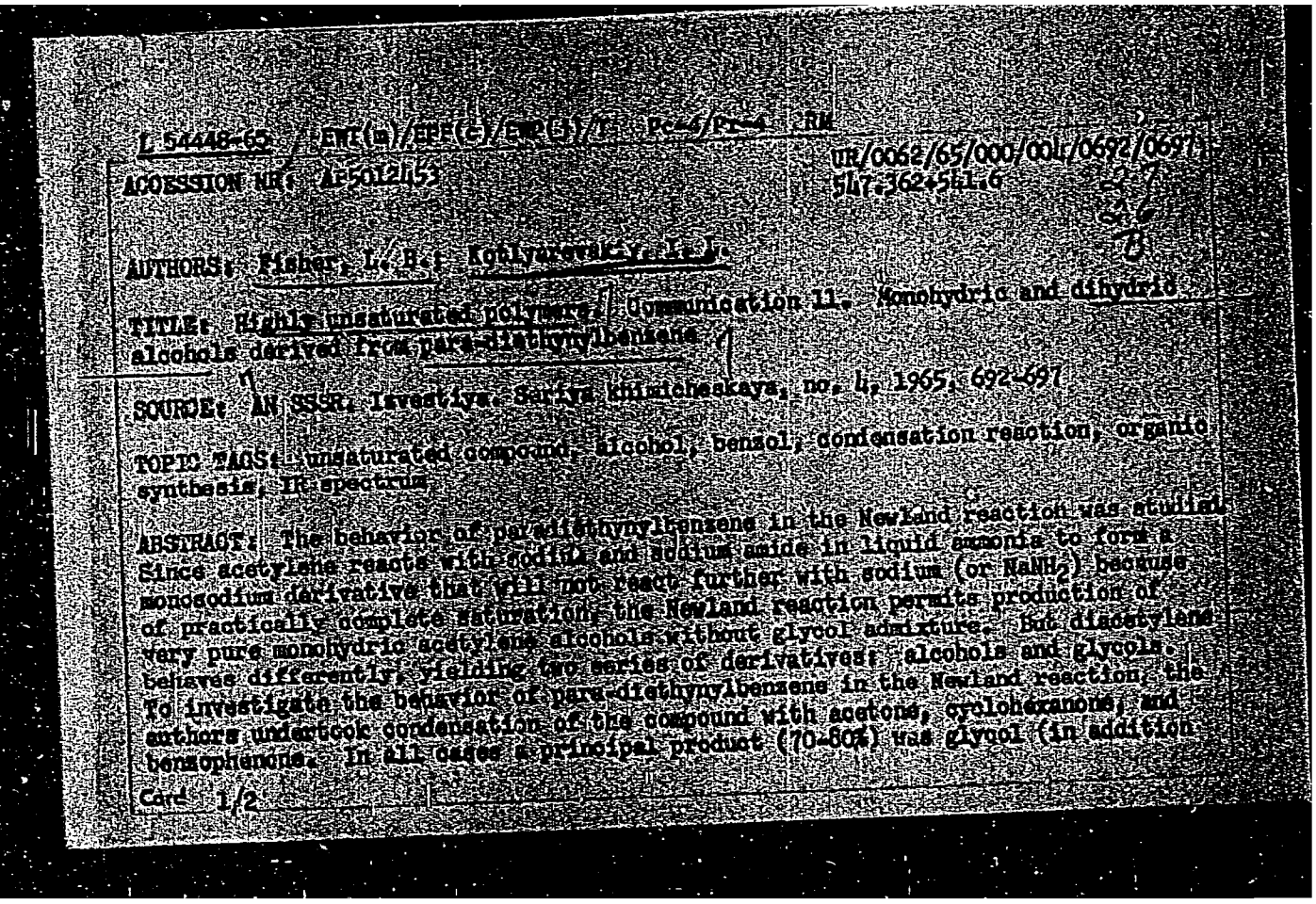
KOTLYAREVSKAYA, G.G.; ARISTOVA, V.N.

Vacuum extractor. Med.prom. 13 no.9:57-59 S '59. (MIRA 13:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya i Nauchno-issledovatel'skiy institut akusherstva i ginekologii Ministerstva zdravookhraneniya RSFSR.
(OBSTETRICS--APPARATUS AND INSTRUMENTS)
(VACUUM APPARATUS)

KITAYEV, A.V.; ALEYNIKOVA, I.N.; KOTLYAREVSKAYA, G.G.; PROSHIN, V.A.

Methodology for the measurement of the charge of aerosol particles. Nov. med. tekh. no.3:143-148 '65. (MIRA 19:1)



L 54448-65 EWT(m)/EPF(c)/EWP(b)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5012453 UR/0062/65/000/004/0692/0697
547.362+541.6

AUTHORS: Fisher, L. R.; Kolyvanova, I. V.

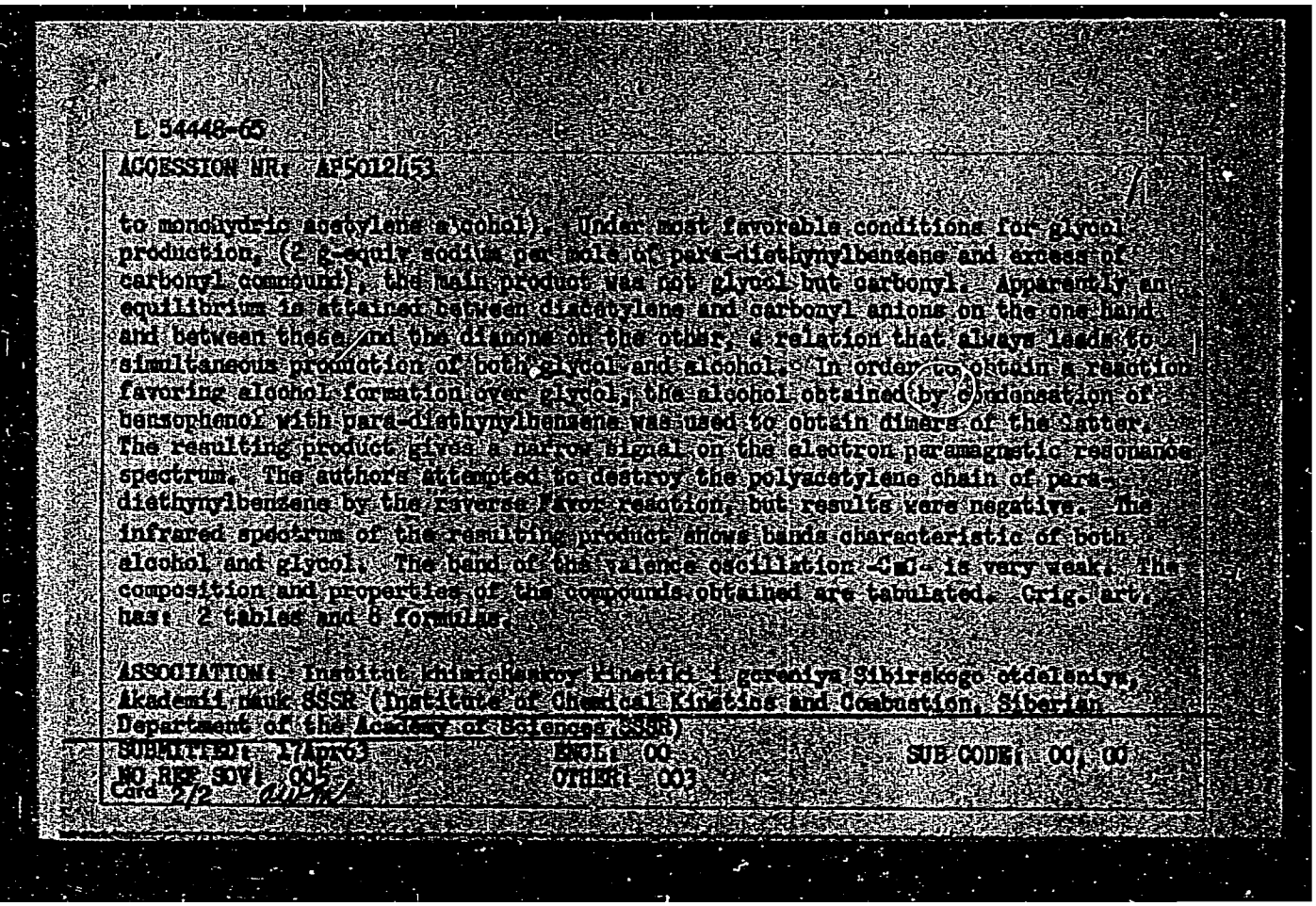
TITLE: Highly unsaturated polymers. Communication 11. Monohydric and dihydric alcohols derived from para-diethynylbenzene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1965, 692-697

TOPIC TAGS: unsaturated compound, alcohol, benzol, condensation reaction, organic synthesis, IR spectrum

ABSTRACT: The behavior of paradiethynylbenzene in the Newland reaction was studied. Since acetylene reacts with sodium and sodium amide in liquid ammonia to form a monosodium derivative that will not react further with sodium (or $NaNH_2$) because of practically complete saturation, the Newland reaction permits production of very pure monohydric acetylene alcohols without glycol admixture. But diacetylene behaves differently, yielding two series of derivatives: alcohols and glycols. To investigate the behavior of para-diethynylbenzene in the Newland reaction, the authors undertook condensation of the compound with acetone, cyclohexanone, and benzophenone. In all cases a principal product (70-80%) was glycol (in addition

Card 1/2



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ACCESSION NR: AP5012453

to monohydric acetylene alcohol). Under most favorable conditions for glycol production, (2 g-equiv sodium per mole of para-diethynylbenzene and excess of carbonyl compound), the main product was not glycol but carbonyl. Apparently an equilibrium is attained between diacetylene and carbonyl anions on the one hand and between these and the dianions on the other, a relation that always leads to simultaneous production of both glycol and alcohol. In order to obtain a reaction favoring alcohol formation over glycol, the alcohol obtained by condensation of benzophenol with para-diethynylbenzene was used to obtain dimers of the latter. The resulting product gives a narrow signal on the electron paramagnetic resonance spectrum. The authors attempted to destroy the polyacetylene chain of para-diethynylbenzene by the reverse Favorskiy reaction, but results were negative. The infrared spectrum of the resulting product shows bands characteristic of both alcohol and glycol. The band of the valence oscillation -C≡C- is very weak. The composition and properties of the compounds obtained are tabulated. Orig. art. has: 2 tables and 6 formulas.

ASSOCIATION: Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya, Akademii nauk SSSR (Institute of Chemical Kinetics and Combustion, Siberian Department of the Academy of Sciences SSSR)

SUBMITTED: 17Apr63 ENCL: 00 SUB CODE: OC, OC

NO REF SOV: 005 OTHER: 003

Card 2/2

30721. KOTLYAREVSKAYA, K. B.

Pol' russkikh i sovetskikh fizikov v mirovoy nauke. (Tezisy doklada.) Trudy Nauch. Konf-tsii, posvyashch. Rolirus. i sov. uchenykh v mirovoy nauke i tekhnike 6-8 maya 1948, g. vyp. 1. Omsk, 1949, s. 45-49.

S/275/63/000/002/022/032
D405/D301

AUTHORS: Kotlyarevskaya, K.B., Morozova, N.P. and Mayyer, E.A.

TITLE: Comparative estimate of ultrasonic-intensity measurements by radiometric-calorimetric method

PERIODICAL: Referativnyy zhurnal, Elektronika i eye primeneniye, no. 2, 1963, 21, abstract 2V128 (Primeneniye ul'traakust. k issled. veshchestva, no. 16, M., 1962, 169-175 (Collection))

TEXT: The radiation of a quartz transducer for various supply voltages was estimated by means of a radiometer and a calorimeter. It was found that both methods yield intensity values which differ by 20-25% from the calculated values, and that they differ among themselves by 5%. In order to remove standing waves in the container, a plastic-foam or metal hood was mounted on the quartz radiator, which altered considerably the radiometer readings. The optimum conditions for radiometric measurements were determined.
[Abstracter's note: Complete translation]

Card 1/1

KOTLYAREVSKAYA, K.B.; MOROZOVA, N.P.; MAYYER, E.A.

Comparative evaluation of ultrasound intensity measurements by radiometric and calorimetric analysis. Prim.ul'traakust.k issl. veshch. no.16:169-175 '62. (MIRA 16:4)
(Ultrasonic waves--Measurement)

KOTLYAREVSKAYA, K.B.; MAYYER, E.A.; KONDRATENKO, B.P.

Application of acoustic vibrations for the production of finely dispersed emulsions. Kozh.-obuv. prom. 6 no.7:27-30 Jl '64.
(MIRA 17:8)

KOTLYAREVSKAYA, L.G.

6(5) PHASE I BOOK EXPLOITATION SOV/1930

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zvukozapisi

Trudy...Vyp. 2. (Transactions of the All-Union Sound-recording Scientific Institute) Nr 2. Moscow, 1957. 164 p. Errata slip inserted. 1,000 copies printed.

Editorial Board: L.P. Apollonova, V.S. Veynberg, D.P. Vatlavskiy, A.I. Prokovskiy, S.A. Gribkova, L.O. Grigorash, B.Ya. Kazanskiy, V.I. Marchenko, L.I. Puzest, Ye.I. Negirev, M.A. Rosenblat; Tech. Ed.: S.A. Gribkova.

PURPOSE: This collection of articles may be useful to scientists, engineers, specialists, and technicians dealing with sound-recording techniques.

COVERAGE: The articles are the results of research carried out at VNIIZ in 1954-1955. Most of the articles deal with magnetic recording, both for the recording of sound as well as for fixing various physical processes on tape, wire, disc, or drum. References appear separately after each article.

Kotlyarevskaya, L.G. Magnetic Discs 79

In connection with the MDD-54 dictaphone developed by VNIIZ, research and development work was carried out at the Institute on magnetic discs. The author discusses in detail the production of magnetic discs. She thanks Candidate of Technical Sciences P.M. Kozlov and Senior Scientific Worker I.A. Trifonova for their assistance. There are 14 references: 8 English, 3 German, 1 Polish, 1 Indian, and 1 Soviet.

Sedrmov, V.S. The MDD-54 Disc-type Dictaphone 87

The article briefly describes the MDD-54 dictaphone (VNIIZ), used for sound recording on magnetic discs. The author lists the basic technical characteristics of this equipment. There are no references.

Sedrmov, V.S. A Contact Copying Machine for Mass-copy MKTM-1 Magnetic Tape Recorders 90

This magnetic tape-copying machine was developed by VNIIZ, and after a long period of production it was redesigned and modernized to secure a mass production of high-quality magnetic tape copies. There are no references.

Gol'dberg, G.A., and S.V. Shil'gin. Magnetic Reverberation Chamber 93

The authors explain the basic methods of obtaining the reverberation effect by magnetic tape recording. They list the main characteristics of the reverberator designed and developed by VNIIZ, which is now successfully being employed in many organizations. At present the Institute is developing a new model of a remote controlled magnetic reverberator for lot production. There are 28 references: 12 English, 8 Soviet, 5 German, 2 French, and 1 Hungarian.

Langer, A.M., and M.A. Onatserish. Investigation of External Electromagnetic Stray Fields Caused by Electric Motors in Sound Recording Equipment 122

The authors discuss special problems of design, selection, and application of electric motors of various types for sound recording equipment. They investigate the methods used for eliminating the effects of a-c electromagnetic stray fields. Materials concerning the effects of d-c electromagnetic stray fields will be published later. There are 4 Soviet references.

BOGACHEVA, L.G. [deceased]; KOTLYAREVSKAYA, L.G.

Review of the approved formulas of plastic materials for phonorecords. Trudy VNAIZ no.5:136-147 '59. (MIRA 15:4)
(Phonorecords) (Plastics)

KOTLYAREVSKAYA, M. A.

"The Influence of Sensitive Denervation on the Epithelium of the Cornea of the Eye," DAN SSSR, 80, No 1, 129, 1951.

REZNICHENKO, P.N.; KOTLYAREVSKAYA, N.V.; GULIDOV, M.V.

Effect of a steady temperature of incubation on the survival rate of the eggs of the roach. Trudy Inst. morf. zhiv. no.40: 247-253 '62. (MIRA 16:6)

(Roach(Fish)) (Embryology—Fishes)
(Temperature—Physiological effect)

SHVETSOV, P.F.; MEYSTER, L.A., otvetstvennyy redaktor; KOTLYAREVSKAYA, P.S., redaktor izdatel'stva; ALEKSEYEVA, T.V., tekhnicheskiy redaktor

[Introductory chapters on the principles of geocryology] Vvodny glavy k osnovam geokriologii. Moskva, Izd-vo Akademii nauk SSSR, 1955. 110 p. (Materialy k osnovam ucheniia o merzlykh zonakh zemnoi kory, no.1) [Microfilm] (MLRA 9:7)
(Frozen ground)

MIRONOV, S.I., akademik, otvetstvennyy redaktor; KOTLYARSVSKAYA, P.S., redaktor izdatel'stva; POLYAKOVA, T.V., tekhnicheskiy reaktor

[Papers on the geology and the petroleum-bearing potential of Georgia] Materialy po geologii i neftenosnosti Gruzii. Moskva, 1956. 161 p. (MLRA 9:7)

1. Akademiya nauk SSSR. Institut nefti.
(Georgia--Petroleum--Geology)

MYSTER, L.A., kandidat geograficheskikh nauk; KOTLYAREVSKAYA, P.S., redaktor; MAKUNI, Ye.V., tekhnicheskiy redaktor

[Material on basic theories of the frozen areas of the earth's crust] Materialy k osnovam ucheniia o merzlykh zonakh zemnoi kory. Moskva. No.3. 1956. 228 p. (MLRA 9:3)

1. Akademiya nauk SSSR. Institut merzlotovedeniya.
(Frozen ground)

KOTLYAREVSKAYA, P.S.

MARKEVICH, Viktor Petrovich; UL'YANOV, A.V., otvetstvennyy redaktor; KOTLYAREVSKAYA, P.S., redaktor izdatel'stva; POLESITSKAYA, S.M., tekhnicheskiy redaktor.

[The term "facies"] Poniatie "fatsiia." Moskva, Izd-vo Akad.nauk SSSR 1957. 87 p. (MLRA 10:5)

(Geology--Terminology)

KOTLYAREVSKAYA, P.S

KACHURIN, S.P., kand.geograf.nauk, otvetstvennyy red.; KOTLYAREVSKAYA, P.S., red.; PRUSAKOVA, T.A., tekhn.red.

[Seasonal freezing of soils and the use of ice for building purposes] Sezonnoe promerzanie gruntov i primenenie l'da dlia stroitel'nykh tselei. Moskva, 1957. 145 p. (MIRA 11:1)

1. Akademiya nauk SSSR. Institut merzlotovedeniya.
(Frozen ground) (Building, Ice and snow)

DRUSHCHITS, V.V., dots.; ASTROVA, G.A.; MERKLIN, R.L.; SHIMANSKIY, V.N.; ORLOV, Yu.A., akademik, otv. red.; KOTLYAREVSKAYA, P.S., red.; YERMAKOV, M.S., tekhn. red.

[Paleontology of invertebrates] Paleontologiia bespozvonochnykh. Moskva, Izd-vo Mosk.univ., 1962. 467 p. (MIRA 15:7)
(Invertebrates, Fossil)

MYAGKOVA, Ye.I.; NIKIFOROVA, O.I.; VYSOTSKIY, A.A.; IVANOVSKIY, A.B.; SOKOLOV, B.S., otv. red.; KOTLYAREVSKAYA, P.S., red.izd-va; GALUSHKO, Ya.A., red.izd-va; MATYUKHINA, L.I., tekhn. red.; YEGOROVA, N.F., tekhn. red.

[Stratigraphy of Ordovician and Silurian sediments in the Moyyero Valley; Siberian Platform] Stratigrafiia ordovikskikh i siluriiskikh otlozhenii doliny reki Moiero; Sibirskaia platforma. Moskva, Izd-vo AN SSSR, 1963. 63 p. (MIRA 16:12)

1. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Vysotskiy, Nikiforova). 2. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (for Myagkova). 3. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya (for Ivanovskiy).
(Moyyero Valley--Geology, Stratigraphic)

LEVENSON, Viktor Emmanuilovich; GAL'PERN, G.D., doktor khim. nauk, otv. red.; KOTLYAREVSKAYA, P.S., red.; DOROKHINA, I.N., tekhn. red.

[Geochemistry of bitumen and its problems]Geokhimicheskaia bituminologiia i ee problemy. Moskva, Izd-vo Akad. nauk SSSR. Vol.3. 1963. 198 p. (MIRA 16:4)
(Bitumen--Geology)

KRYLOV, Igor' Nikolayevich; RAABEN, M.Ye.; KOTLYAREVSKAYA, P.S., red.izd-va; GOLUB', S.P., tekhn.red.

[Columnar branching stromatolites in Riphean sediments of the Southern Ural Mountains and their significance for the Upper Pre-Cambrian stratigraphy.] Stolbchatye vetviashchiesia stromatolity rifeiskikh otlozhenii IUzhnogo Urala i ikh znachenie dlia stratigrafii verkhnego dokembriia. Moskva, 1963. 132 p. (Akademiia nauk SSSR. Geologicheskii institut, Trudy, no.69). (MIRA 17:2)

KOTLYAREVSKAYA, S.Z., dots., kand. med. nauk; PARNES, Ya.A., red.

[Toxoplasmosis of the eyes] Toksoplazmoz glaz. Moskva, Meditsina, 1964. 126 p. (MIRA 17:11)

KOTLYAREVSKAYA, S. Z.

PA 13/49T93

USSR/Medicine - Undulant Fever Jul/Aug 48
Medicine - Eye, Diseases

"Optic Complications in Brucellosis," S. Z. Kotlyarevskaya, Docent, Chair of Opt Diseases, Khar'kov Med Inst, 1 p

"Vest Oftalmol" Vol XXVII, No 4

Analyzes 15 cases of optic complications due to brucellosis.

13/49T93

KOTLYAREVSKAYA, S.Z.; CHEREDNICHENKO, V.M.

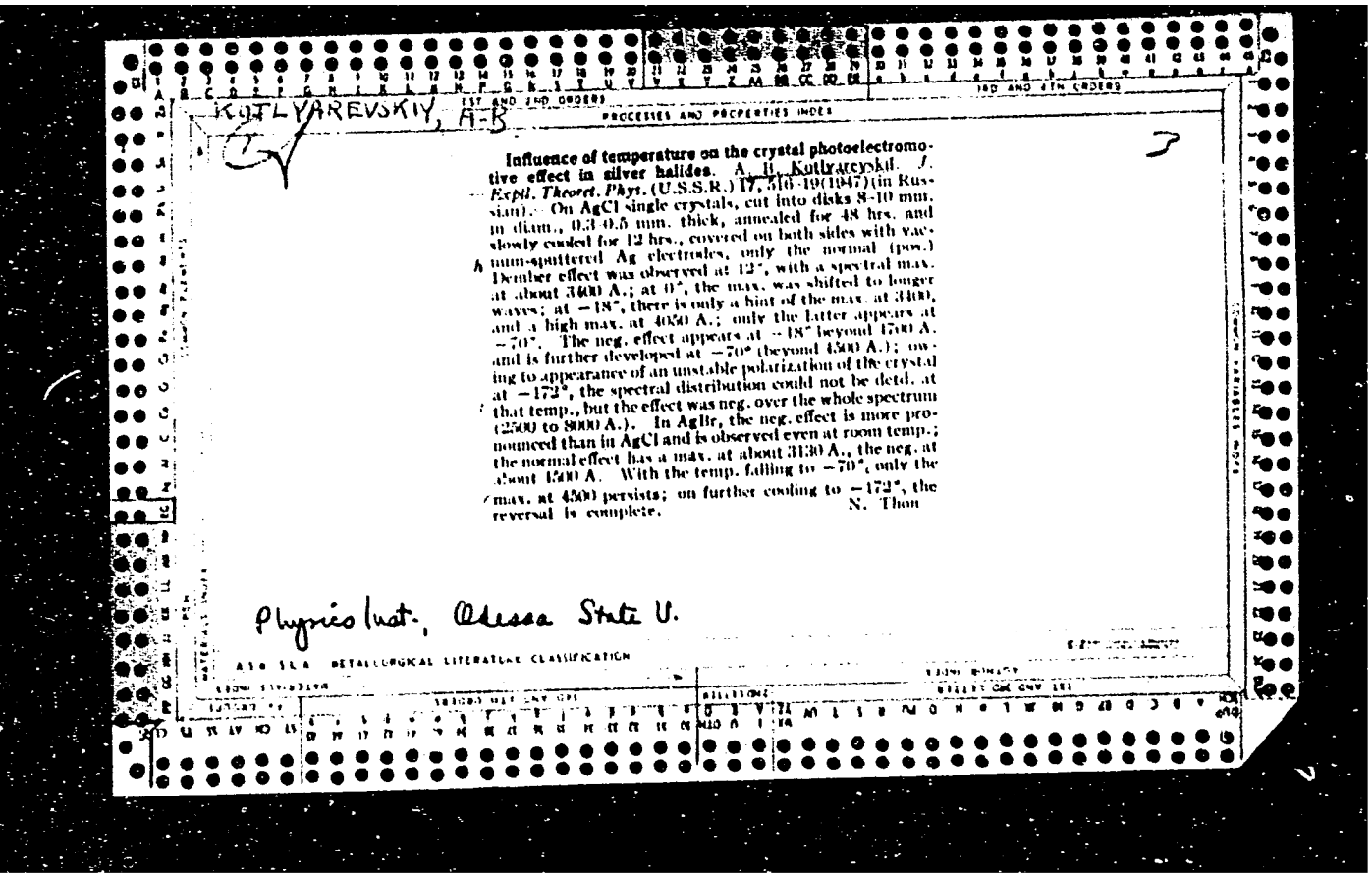
Intravitally diagnosed tuberous sclerosis (Pringle-Burneville's disease) with changes in the fundus oculi. Vest. oft. 73 no. 2:34-37 Mr-Ap '60. (MIRA 14:1)

(TUBEROUS SCLEROSIS) (EYE—DISEASES AND DEFECTS)

KOTLYAREVSKAYA, T. P.

Psychic modifications in acute tetra-ethyl lead poisoning.
Nevropat. psikhiat., Moskva 19 no.4:83-85 July-Aug. 1950.
(CIML 20:1)

1. Of the Psychiatric Clinic (Director -- Prof. I. B. Galant), Khabarovsk Medical Institute, Khabarovsk.



KOTLYAREVSKIY, A-B

PROCESSES AND PROPERTIES INDEX

Influence of temperature on the crystal photoelectromotive effect in silver halides. A. B. Kotlyarevskiĭ. *J. Expil. Theoret. Phys.* (U.S.S.R.) 17, 510-19(1947)(in Russian).—On AgCl single crystals, cut into disks 8-10 mm. in diam., 0.3-0.5 mm. thick, annealed for 48 hrs. and slowly cooled for 12 hrs., covered on both sides with vacuum-sputtered Ag electrodes, only the normal (pos.) Dember effect was observed at 12°, with a spectral max. at about 3400 A.; at 0°, the max. was shifted to longer waves; at −18°, there is only a hint of the max. at 3400, and a high max. at 4050 A.; only the latter appears at −70°. The neg. effect appears at −18° beyond 4700 A. and is further developed at −70° (beyond 4500 A.); owing to appearance of an unstable polarization of the crystal at −172°, the spectral distribution could not be detd. at that temp., but the effect was neg. over the whole spectrum (2500 to 8000 A.). In AgBr, the neg. effect is more pronounced than in AgCl and is observed even at room temp.; the normal effect has a max. at about 3130 A., the neg. at about 4200 A. With the temp. falling to −70°, only the max. at 4500 persists; on further cooling to −172°, the reversal is complete.

N. Thon

Physics Inst., Odessa State U.

ASTIA METALLURGICAL LITERATURE CLASSIFICATION

KOTLYAREVSKIY, B.V.

14(5) PHASE I BOOK EXPLOITATION SOV/2818

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Razvedochnaya i promyslovaya geofizika, vyp. 21. (Exploration and Industrial Geophysics, No. 21) Moscow, Gostoptekhizdat, 1958. 112 p. (Series: Obmen proizvodstvennym opytom) Errata slip inserted. 4,500 copies printed.

Ed.: A. I. Bogdanov; Exec. Ed.: N. P. Dobrynina; Tech. Ed.: I. G. Fedotova.

PURPOSE: This booklet is intended for geophysical engineering and technical personnel in the petroleum industry.

COVERAGE: Individual articles of this collection discuss improvements in methods of interpreting seismic and gravimetric data, testing of seismic receivers, and the refinement of seismic station amplifiers. A nomogram is described for the rapid computation of magnetic properties of rock samples, and a summary is provided of experience in marking oil contacts. Improved methods and equipment of radioactive methods of surveying boreholes are also discussed. References accompany individual articles.

AVAILABLE: Library of Congress

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KOTLYAREVSKIY, B. V.

"Evaluation of Accuracy of Gravimetric Observations, Selection of a Rational Density Grid of Observations and Cross-sections of Iso-anomalies of Gravity."

p. 109 in book Applied Geophysics; Collection of Articles, No. sp, Moscow Gostoptekhizdat, 1958, 267p.

These articles are concerned with the methodology of interpreting the results of gravimetric, seismic and electrical surveys. Review the collecting properties of rocks on the basis of data obtained from resistometers and the application of charged particle accelerators in well logging.

KOTLYAREVSKIY, B.V.

Error correlations in gravimetric observations on ordinary networks in the case of linear changes in the zero point. Prikl. geofiz. no.18:194-209 '58. (MIRA 11:5)
(Gravimeter) (Prospecting--Geophysical methods)

KOTLYAREVSKIY, B.V.

Evaluating the precision of gravimetric surveys and selecting an efficient density of the observation net and the isoanomalic profile. Prikl. geofiz. no.20:109-133 '58. (MIRA 11:11)
(Prospecting--Geophysical methods) (Gravity)

S/169/62/000/007/039/149
D228/D307

AUTHORS: Kotlyarevskiy, B. V. and Ryabinkin, L. A.

TITLE: Status of seismic surveying and the course of its subsequent development

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 24, abstract 7A156 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 207-213)

TEXT: The role of seismic surveying in the general complex of geophysical investigations in the USSR is steadily increasing. In 1965, the share of seismic operations will comprise 56% of the total volume of geophysical investigations as compared with 42% in 1958. Data are given about the distribution of the volumes of seismic work by various departments and organizations on the territory of the RSFSR and other republics. The main problems being solved by seismic surveying are considered. More than 80% of the volume of seismic work is connected with seeking and studying in detail the

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S/169/62/000/007/039/149
D228/D307

Status of seismic ...

structures in sedimentary formations that are perspective in respect of their oil and gas content. About 145 of the volume of work falls on regional surveys; the aim of these is to explain major peculiarities in the geologic structure of extensive territories and to characterize the behavior of the sedimentary cover, the rapid development, and, in separate cases, deeper crustal layers. The base-ment of seismic effectiveness being considerably increased. This con-velopment of seismic surveying in post-war years has resulted in its geologic effectiveness of the successful application clusion is confirmed by examples of the North Caucasus, the Volga-Ural region, seismic surveying in Azerbaydzhan, the Volgo-Ural'skaya district, Uzbekistan, and so forth. A series of indices, characterizing the ko-Donetskaya Depression, the Volgo-Ural'skaya district, Turkmeniya, effectiveness of seismic surveying, is cited. The main changes and achievements in the development of seismic survey procedure are reviewed. These are connected with the introduction of the correla-tion-refraction method, controllable set reception, and mass spatial soundings and with improvements in the marine and the fluvial modifications. The perspectiveness of wide-base using alternating and -transverse waves is mentioned. The chief direction for the improve-

Card 2/3

ment of seismic surveying is the mass application of intermediate magnetic recording. At the same time it is necessary to develop ways of automatically interpreting the resulting data. One of the most important problems is to improve the method of seeking gentle structures of the platform type. The effectiveness of seismic surveying in complex platform environments can be substantially increased by developing and introducing technical means and methodical procedures that are new in principle. In conclusion, new geologic problems, arising in the course of the fulfillment of the seven-year plan, are indicated, and the main directions in the field of the technical reequipment and renovation of seismic surveying procedure are outlined. [Abstracter's note: Complete translation:]

Card 3/3

FEDYNSKIY, V.V., doktor fiziko-matem. nauk, red.; SHIROKOV, A.S., red.; KOVALEVA, A.A., red.; GRATSIANOVA, O.P., nauchn. red.; BORISOV, A.A., nauchn. red.; FEDYUK, V.I., nauchn. red.; KOTLYAREVSKIY, B.V., nauchn. red.; POMERANTSEVA, I.V., nauchn. red.; MOZZHENKO, A.N., nauchn. red.; LOZINSKAYA, A.M., nauchn. red.; SHNEYERSON, M.B., nauchn. red.; BOGDANOV, A.Sh., nauchn. red.; NIKITSKIY, V.Ye., nauchn. red.; KUDYMOV, B.Ya., nauchn. red.; GORBUNOV, G.V., nauchn. red.; PETROV, L.V., nauchn.red.; KOMAROV, .S.G, nauchn. red.; PETROV, L.V., nauchn. red.; DUNCHENKO, I.A., nauchn. red.; FEL'DMAN, I.I., nauchn. red.; POMETUN, D.Ye., nauchn. red.; BEKMAN, Yu.K., ved. red.; VORONOVA, V.V., tekhn. red.

[Status and prospects for developing geophysical methods for mineral prospecting] Sostoianie i perspektivy razvitiia geofizicheskikh metodov poiskov i razvedki poleznykh iskopaemykh; materialy. Pod red. V.V. Fedynskogo. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 623 p. (MIRA 14:11)

1. Nauchno-tekhnicheskaya geofizicheskaya konferentsiya, Moscow, 1959.
2. Ministerstvo geologii i okhrany nedr SSSR (for Fedynskiy, Petrov).
(Prospecting—Geophysical methods)

ZNAMENSKIY, V.V.; RYABINKIN, L.A.; PETROV, L.V.; VARTANOV, S.P.; GAGEL'GANTS, A.A.; KOTLYAREVSKIY, B.V.; LOZOVSKAYA, I.F.; LYAKHOVITSKIY, F.M.; MAR'IN, N.I.; OSTROVSKIY, V.D.; PARIYSKAYA, G.N.; RIKHTER, V.I.; RUBO, V.V.; SLUTSKOVSKIY, A.I.; TARUTS, G.M.; TURCHANENKO, N.M.; SHMIDT, N.G.; SHNEYERSON, M.B.; GURVICH, I.I., red.; BORUSHKO, T.I., red.izd-va; GUROVA, O.A., tekhn. red.

[Instructions for seismic prospecting]Instruktsiia po seismorazvedke. Moskva, Gosgeoltekhizdat, 1962. 95 p. (MIRA 15:12)

1. Russia (1923- U.S.S.R.)Ministerstvo geologii i okhrany nedr.
(Seismic prospecting)

L 13551-66 EWT(m)/T/EWA(m)-2

ACC NR: AP6001154 SOURCE CODE: UR/0367/65/002/003/0471/0484

AUTHOR: Anikina, M.; Vardenga, G.; Zhuravleva, M.; Kotlyarevskiy, D.; Lukstin'sh, Yu.; Meetvirishvili, A.; Nyagu, D.; Okonov, E.; Wu, Tsung-fang; Chkhaidze, L.; Takhtamyshev, G.

ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy); Physics Institute, Academy of Sciences, Gruzinskaya SSR (Institut fiziki Akademii nauk Gruzinskoy SSR)

TITLE: Investigation of K_2^0-meson decays 19,44,55

SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 471-484

TOPIC TAGS: K meson, meson interaction, lepton, radioactive decay, selection rule, pion

ABSTRACT: The authors presented at the 12th International Conference on High Energy Physics, Dubna, 1964, preliminary results of analyses of 683 K_2^0-mesons detected in a Wilson chamber. In the present article, the authors present a more complete analysis using a larger statistical material (1082 K_2^0-mesons). The following probabilities were obtained for leptonic decays of the K_2^0-meson and for the decay $K_2^0 \to \pi^+ + \pi^- + \pi^0$ (with respect to all K_2^0-decays into charged particles): Γ_2 (+ — 0) / Γ_2 (charged) = 0.194 ± 0.024 and $\Gamma_2(Ke_3) + \Gamma_2(K\mu_3) / \Gamma_2$ (charged) = 0.806 ± 0.090. The data on leptonic decays exclude the S-type interaction and are in good agreement with the V-type interaction and the predictions based on the $|\Delta I| = 1/2$ selection rule. The energy spectrum of π^0-mesons in the $K_2^0 \to \pi^- + \pi^+ + \pi^0$ decay differs significantly from the phase curve $\phi(T_0)$. The value $\alpha = -8.2^{-1.3}_{-0.9}$ was obtained for the coefficient α in the linear approximation $dW(T_0)/d\phi(T_0) = 1 + \alpha T_0/M_K O$, which is also in good agreement with the $|\Delta I| = 1/2$ selection rule. Assuming the existence of a δ-dipion resonance, the following values are obtained for its mass and width: $M_\delta = (350 \pm 10)$ MeV and $\Gamma_\delta = (75 \pm 15)$ MeV. In conclusion, the authors consider it their pleasant duty to thank B. M. Pontecorvo [Pontekorvo] for fruitful discussions and constant interest in the work; V. I. Veksler, I. V. Chuvilo and the entire staff of the proton-synchrotron, who assured the execution of the experiment; and E. L. Andronikashvili, V. P. Dzhelepov, and Z. Sh. Mardzhavidze for assistance in the work. Authors also extend their thanks to the group of laboratory technicians and mechanics consisting of N. I. Grafov, L. Goncharov, P. Zhabin, L. Lyubimov, D. Syerdlin, V. Smirnov, V. Stepanov, L. Filatov, and L. Filippov, and the students O. Dumbrayts and V. Novikov for performing the calculations. Orig. art. has: 10 figures, 4 tables, and 1 formula.

SUB CODE: 18/ SUBM DATE: 30Mar65 / ORIG REF: 007 / OTH REF: 021

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L 13551-66 APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825410004-7

ACC NR: AP6001154

KOTLYAREVSKIY D.

KOZLOV, A.A.; KOTLYAREVSKIY, D.I.; ROYNISHVILI, N.N.; TATALASHVILI, N.G.; TSAGARELI, E.I.; TSINTSADZE, A.I.; TSINTSADZE, V.D.; DZIDZIGURI, R.I.

Method of studying tracks in the Wilson magnetic chamber. Soob. AN Gruz. SSR 19 no.2:143-150 Ag '57. (MIRA 11:3)

1. Institut fiziki AN GruzSSR, Tbilisi. Predstavleno akademikom E.L. Andronikashvili.

(Cloud chamber)

ANIKINA, M.; VARDENGA, G.; ZHURAVLEVA, M.; KOTLYAREVSKIY, I.; LUKSTIN'SH, [illegible]; MESTVIRISHVILI, A.; NYAGU, D.; OKONOV, E.; TAKHTAMYSHEV, G.; U TSZUN-FAN' [Wu TSung-fan]; CHKHAIDZE, L.

K_2^o-meson decay. IAd. fiz. 2 no.3:471-484 S '65. (MIRA 18:9)

1. Ob"yedinennyy institut yadernykh issledovaniy i Institut fiziki AN GruzSSR.

KOTLYAREVSKIY, D.M.

5

3154,2
S/627/60/002/000/027/027
D299/D304

3.2410 (2205, 2705, 1559)

AUTHORS: Mandzhavidze, Z. Sh., Roynishvili, N. N., Chukovani, G. Ye., Kozlov, A. A., Kotlyarevskiy, D. M., Tatalash-vili, N. G., and Tsintsibadze, A. I.

TITLE: Study of penetrating showers at an altitude of 2000 m above sea level

4

SOURCE: International Conference on Cosmic Radiation. Moscow, 1959. Trudy. v. 2. Shirokiye atmosfernyye livni i kas-kadnyye protsessy, 338-341

TEXT: The properties of unstable heavy particles were studied by means of a magnetic cloud chamber with lead absorbers. Among 8700 nuclear interactions, 139 cases of decay of neutral particles were observed, as well as 29 decay processes of charged strange parti-cles. In addition, 11 decay processes, described by the authors in an earlier work, are also included in the study. As a result of the investigation of neutral particles, 45 V^0-shaped tracks were iden-

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S/627/60/002/000/027/027
D299/D304

Study of penetrating ...

tified as decays of Λ^0-hyperons, and 38 - as φ^0-mesons. Fifty-six of the remaining V^0-shaped tracks could not be identified. Out of 40 $\gamma^{\pm}$-particles, 1 was interpreted as τ-meson decay, 7 could be interpreted as K-meson decay and 2 - as Σ-hyperons. The other particles could not be interpreted by decay-dynamics only; for their interpretation considerations had to be employed which proceed from the considerable difference in the lifetime of hyperons and K-mesons respectively. In Solov'yev's work (Ref. 3: preprint O.I.Ya. I.) it is shown that for strong interactions involving strange particles, there are no obvious theoretical assumptions which would require conservation of parity. If such interactions are not invariant with respect to space inversion, one should expect the appearance of hyperon polarization in the plane of generation. These considerations were used as a basis for constructing the angular distribution protons of the decay of Λ^0-particles with momenta below 800 Mev./c. Further, the authors investigated the lifetime of

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Λ^0-particles by 2 methods. By the first method, they obtained for the mean lifetime the value

$$\tau_{\Lambda^0} = (2{,}83 \pm 2{,}32) \cdot 10^{-10} \text{ sec}$$

The second method yielded

$$\tau_{\Lambda^0} = (3{,}02 \pm 1{,}14) \cdot 10^{-10} \text{ sec}$$

Further, an attempt was made to determine the lifetime of Σ-hyperons. Earlier results in this respect are in disagreement. It was found that 13 of the decay processes of charged particles can be considered as $\Sigma^{\pm}$-hyperons. The lifetime of 9 of these particles is

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Study of penetrating ...

$$\tau_{\Sigma^\pm} = \leq (0{,}57 \pm 0{,}36 \atop - 0{,}16) \cdot 10^{-10} \text{ sec}$$

There are 1 table and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: S. Hayakawa. Phys. Rev., 108, 1533, 1957; D. A. Glaser. Ann. International Conference on High Energy Physics at CERN, 1958; I. Snayder, W. Y. Chang and I. G. Gupta. Phys. Rev., 106, 149, 1957.

ASSOCIATION: Institut fiziki AN Gruz.SSR (Physics Institute AS Georgian SSR)

Card 4/4

KOTLYAREVSKIY, D.M.

ANIKINA, M. Kh., KOTLYAREVSKIY, D. M., KOSLOV, A. A., DZURAVLEVA, M. S., MANDZHAVIDZE S. M., MESTVIRISHVILI, A. N. NIAGU, D. V., PETROV, N. I. ROZANOVA, A. M., RUSAKOV, V. A. OKONOV, E. O., TAKIBAYEVSHEV, G. G., CHIKHEIDZE, L. B.

"Decay Properties of K^0-Mesons"

Report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Joint Inst. for Nuclear Research
Lab. of High Energies, Dubna, 1962

MANDZHAVIDZE, Z.Sh.; ROYNISHVILI, N.N.; GERSAMIYA, D.V.; KOZLOV, A.A.; KOTLYAREVSKIY, D.M.; PURTSELADZE, T.D.; TATALASHVILI, N.G.; SHTEMANETYAN, G.Z.

Lifetime of charge $\sum^{\pm}$ hyperons. Trudy Inst.fiz.AN Gruz.SSR 8:125-129 '62. (MIRA 16:2)

(Hyperons)

KOTLYAREVSKIY, D.M.; MESTVIRISHVILI, A.N.; NYAGU, D.; OKONOV, E.O.; PETROV, N.I.; RUSAKOV, V.A.; CHKHAIDZE, L.V.; U TSZUN-FAN' [Wu Tsung-fan]

Energy spectra and angular correlations of particles in $K^0 \rightarrow \pi^{\pm} + e^{\pm} + \nu$ decays. IAd. fiz. 1 no.6:1035-1044 Je '65. (MIRA 18:6)

1. Ob"yedinennyy institut yadernykh issledovaniy i Institut fiziki AN Gruzinskoy SSR.

L 19639-63 EWT(m)/BDS AFFTC/ASD

ACCESSION NR: AP3007064 S/0056/63/045/003/0469/0473

AUTHORS: Anikina, M. Kh.; Gogitidze, O. N.; Zhuravleva, M. S.; Kozlov, A. A.; Kotlyarevskiy, D. M.; Mandzhavidze, Z. Sh.; Mestvirishvili, A. N.; Nyagu (Neagu), D.; Okonov, E. O.; Petrov, N. I.; Rozanova, A. M.; Rusakov, V. A.; Takhtamyshev, G. G.; Chkhaidze, L. V.; Wu Tsung-fan; Tserelov, A. A.

TITLE: Observation of the decays $K_2^0 \to \pi^+ + \pi^- + \pi^0$

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 469-473

TOPIC TAGS: neutral kaon decay, four charged particle decay, decay probability, proton synchrotron, cloud chamber

ABSTRACT: Four decays of long-lived K^0 mesons with concomitant emission of four charged particles have been observed in a cloud chamber bombarded by a neutral particle beam from the OIYaN (Joint Inst. of Nuc. Research) proton synchrotron. All four events are identified

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as the decays

$$K_2^0 \rightarrow \pi^+ + \pi^- + \pi^0 \begin{cases} \gamma \\ e^+ + e^- \end{cases} \qquad (1)$$

An estimate of the probability of the decay $K_2^0 \rightarrow \pi^+ + \pi^- + \pi^0$ relative to all K_2^0 decays involving secondary particles yields a value 0.08 ± 0.04. "In conclusion, the authors express their gratitude to engineers N. Rusishvili and A. Yu. Shtayerman of the Physics Institute of the Georgian Academy of Sciences, who participated in the construction and adjustment of the cloud chamber. The authors are also grateful to the proton cyclotron crew and to the group of laboratory assistants. The authors are most grateful to V. I. Veksler and B. M. Pontecorvo for interest in the work and for numer-

L 19639-63
ACCESSION NR: AP3007064

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ous discussions, as well as to E. L. Andronikashvili and V. P. Dzheleopov for interest and collaboration." Orig. art. has: 1 figure, 2 formulas, and 2 tables.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research); Institut fiziki Akademii nauk Gruzinskoy SSR (Physics Institute, Academy of Sciences, Georgian SSR)

SUBMITTED: 02Apr63	DATE ACQ: 08Oct63	ENCL: 00
SUB CODE: PH	NO REF SOV: 002	OTHER: 003

Card 3/3

ACCESSION NR: AP4012523 S/0056/64/046/001/0059/0066

AUTHORS: Anikina, M. Kh.; Zhuravleva, M. S.; Kotlyarevskiy, D. M.; Mandzhavidze, Z. Sh; Mestvirishvili, A. N.; Nyagu, D. V.; Okonov, E. O.; Petrov, N. I.; Rusakov, V. A.; Takhtamy*shev, G. G.; Chkhaidze, L. V.; Wu, Tsung-fan

TITLE: Estimate of the relative possibility of the $K_2^0 \rightarrow 3\pi^0$ decay

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 59-66

TOPIC TAGS: K_2 decay, Dalitz pair, neutral kaon decay, CP invariance, selection rules, V sup 0 event, ionization selection rule

ABSTRACT: Continuing an earlier investigation (D. V. Nyagu, E. O. Okonov, N. I. Petrov, A. M. Rozanova, and V. A. Rusakov, ZhETF v. 40, 1618, 1961), the authors registered the $K_2^0 \rightarrow 3\pi^0$ decay by the Dalitz pairs observed in a one-meter cloud chamber placed in a beam of neutral particles from a proton synchrotron, using an experimental

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ACCESSION NR: AP4012523

setup described earlier (ZhETF v. 45, 469, 1963). Applying more stringent selection rules, they found the ratio of the probability of the $K_2^0 \rightarrow 3\pi^0$ decay to the probability of all K_2^0 meson decays to be (0.24 ± 0.08). "We thank the proton synchrotron crew, whose precise work enabled us to set up the project. We are deeply grateful to B. M. Pontecorvo who called attention to the possibility of investigating $K_2^0 \rightarrow 3\pi^0$ decay by means of Dalitz pairs and for numerous discussions. We are grateful to E. L. Andronikashvili, V. I. Veksler, and V. P. Dzhelepov for collaboration, and also to the group of laboratory assistants and particularly student Yu. Luksty*n'sh of Riga University for participating in the measurements." Orig. art. has: 2 figures, 1 formula, and 1 table.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research); Institut fiziki AN GruzSSR

ACCESSION NR: AP4012523

(Physics Institute, AN GruzSSR)

SUBMITTED: 10Jul63 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: PH NO REF SOV: 004 OTHER: 006

Card 3/3

ANIKINA, M.Kh.; GOGITIDZE, O.N.; ZHURAVLEVA, M.S.; KOZLOV, A.A.; KOTLYAREVSKIY, D.M.; MANDZHAVIDZE, Z.Sh.; MESTVIRISHVILI, A.N.; NYAGU, D.; OKONOV, E.O.; PETROV, N.I.; ROZANOVA, A.M.; RUSAKOV, V.A.; TAKHTAMYSHEV, G.G.; CHKHAIDZE, L.V.; U TSZUN-FAN' [Wu Tsung-fan]; TSERELOV, A.A.

Observation of $K_2^0 \to \pi^+ + \pi^- + \pi^0$ decays. Zhur. eksp. i teor. fiz. 45 no.3:469-473 S '63. (MIRA 16:10)

1. Ob"yedinennyy institut yadernykh issledovaniy i Institut fiziki AN Gruzinskoy SSR.
(Photography, Particle track) (Mesons)

S/191/61/000/002/010/012
B124/B204

AUTHORS: Barshteyn, R. S., Kotlyarevskiy, G. A.

TITLE: Softeners for polyvinylchloride and its copolymers

PERIODICAL: Plasticheskiye massy, no. 2, 1961, 57-60

TEXT: The most important condition which must be fulfilled by a softener for polar polymers (e.g. PVC and its copolymers), is polarity. In softeners the following polar groups may be used: Ester groups (in diester-and polyester-softeners), chlorine containing groups (in chlorinated paraffins) and inorganic anions, which are bound to a benzene ring (as, e.g. in tricresylphosphate). The diester of dicarboxyl acids (phthalic adipic and sebacic acid) and of monohydric alcohols (2-ethylhexanol, alcohols of the fatty series C_7 - C_9 and butyl alcohol) are especially well suited; the latter are especially effective for obtaining frost-resistant plasticized material. The most wide-spread are monomeric softeners on the basis of phthalic anhydride ("phthalates") and of sebacic acid ("sebacinates"). From the

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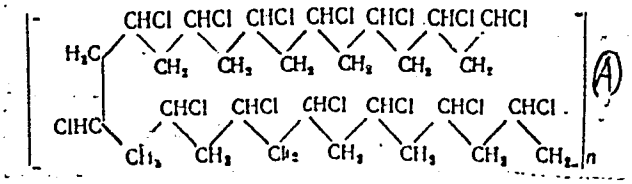
Softeners for polyvinylchloride...

practice of softening of PVC it is known that the greatest softening effect is brought about by the "phthalates" of alcohols of the fatty series, the phthalate of n-octyl alcohol whose molecule is 16.5A long having the most favorable properties. The formula of PVC may be represented by

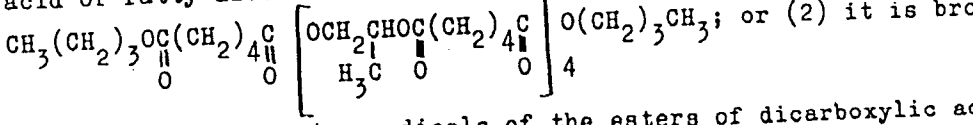


(A)

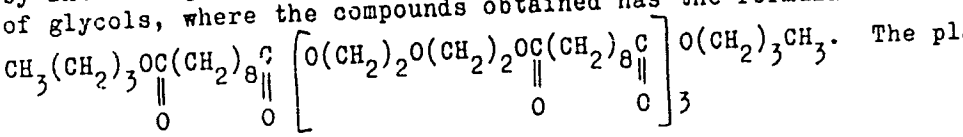
or by $(C_{28}H_{42}Cl_{14})_n$. The macromolecule of PVC, which consists of $C_{28}H_{42}Cl_{14}$ -links, has a spiral-shaped structure. In the synthesis of softeners, compatible with PVC, it was assumed that 1) polyesters are the most effective softeners, if their macromolecules have a length which is equal to that of the PVC-link or is its multiple; 2) the molecular weight of polyester softeners must not be lower than 1000-1200, where the migration

Softeners for polyvinylchloride...

of the softener is low and 3) the polyester macromolecules must, have aliphatic radicals as end groups. The optimum quantity of the softener is calculated from the relation A = M.100/875.m, where A is the quantity of the softener per 100 parts by weight of PVC-resin, M is the molecular weight of the softener, and m the equivalence coefficient. The polyester softeners may be synthetized (1) either with equal functional groups at the ends (-OH or -COOH) with following esterification of the end groups with fatty acid or fatty alcohol. The formula of the compound obtained is then



; or (2) it is brought about by interchange of ester radicals of the esters of dicarboxylic acid by means of glycols, where the compounds obtained has the formula



. The plasticized

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materials with polyester softeners were rolled at 150-155°C and pressed at 160-165°C. The PVC resin "ПФ-специальная" ("PF-special), and, as stabilizer, the epoxy resin ЭД-5 (ED-5) were used. Further, the compatibility of polyester softeners with polyvinyl chloride, the compatibility degree, the mechanical, physical, and dielectric properties of the plasticate were investigated. The migration of the softener was gravimetrically investigated. On the basis of the selective difficult solubility in organic solvents, plasticates, which are resistant among other things also to Diesel fuel and Diesel oil, were developed. There are 5 figures and 26 references: 11 Soviet-bloc and 8 non-Soviet-bloc.

L 38277-65 EWP(j)/EWT(m) Pc-4 RM

ACCESSION NR: AP5008240 S/0286/65/000/005/0130/0130

AUTHORS: Kotlyarevskiy, G. A.; Barshteyn, R. S.; Gorbunova, V. G.; Khrustaleva, L. M.

TITLE: Method for obtaining polyester plasticizers for polyvinylchloride compositions. Class 39, No. 149217

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 130

TOPIC TAGS: polyvinylchloride, polyester

ABSTRACT: This Author Certificate presents a method for obtaining polyester plasticizers for polyvinylchloride compositions. To preserve the high-frequency characteristics of the material during operation, dicarbonic acid esters and fatty alcohols are heated in the presence of acid catalysts with dihydric alcohol with distillation of monohydric alcohol from the reaction mixture.

ASSOCIATION: none

SUBMITTED: 25Dec58 ENCL: 00 SUB CODE: OC

NO REF SOV: 000 OTHER: 000

Card 1/1

BARSHTEYN, R.S.; KOLYAREVSKIY, G.A.

Mechanism of the plastification of polyvinyl chloride. Plast. massy no.7: 13-14 '65. (MIRA 18:7)

KOTLYAREVSKIY,G.P.

KOTLYAREVSKIY,G.P., inzhener

Causes for a main shaft breakdown in mine hoisting machinery.
Ugol' 30 no.7 38-39 Jl'55. (MLRA 8:10)
(Mining machinery) (Shafts and shafting)

KOTLYAREVSKIY, G.P., inzhener; KRIVKO, A.L., inzhener; ROVNYY, M.S.

Toughening the end-piece of wire-rope drums by surface cold hardening. Vest.mash.35 no.11:58-59 N '55. (MLRA 9:2)
(Winches) (Metals--Cold working)

AID P - 4493

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 20/29

Author : Kotlyarevskiy, G. P., Engineer

Title : Gages for cutting teeth of large gears on an universal installation.

Periodical : Vest. mash., #4, p. 75-76, Ap 1956

Abstract : Because gear planets or gear milling lathes were not available at the Kiselevsk Coal Machine-Building Plant "Glavuglemash" horizontal boring lathes were used for cutting gear rims for the EShl walking excavators. To ascertain the exact spacing of the gear rim pitch, a special gage was constructed. Diagrams, photo.

Institution : None

Submitted : No date

KOTLYAREVSKIY, Georgiy Pavlovich; ZHURAVKOV, M.V., otv.red.; SABITOV, A., tekhn.red.

[Raising the durability of shafts of hoists and compressors] Povyshenie dolgovechnosti valov pod"emnykh mashin i kompressorov. Moskva, Ugletekhizdat, 1957. 29 p. (MIRA 12:9)
(Strength of materials)

KOTLYAREVSKIY, G.P., inzhener; SIMONOV, A.L., kandidat tekhnicheskikh nauk; TOPILKO, A.Ya., kandidat tekhnicheskikh nauk.

Reconditioning of heading machine parts. Ugol' 32 no.4:17-18 Ap 57. (MIRA 10:5)

(Mining machinery--Maintenance and repair)