

SIROVATKA, O:

SIROVATKA, O. Oldest miners' songs in the Posice - Oslavany coal basin. p. 43.

Vol. 5, no. 1, 1957
CESKOSLOVENSKÁ ETNOGRAFIE
SERIE A: S. 1-100
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SIROVAISHIY, S. I.

"On the Theory of Discontinuities in Magnetic Hydrodynamics." Cand
Phys-Math Sci, Physics Inst imeni P. N. Lebedev, Acad Sci USSR, 24 Dec 54.
(VM, 16 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions (12)
SO: Sun. No. 556, 24 Jun 55

Country : Yugoslavia H-17
 Category= :
 Abs. Jour. : 39685
 Author : Sirovica, A.
 Institut. : Not given
 Title : Salve Bases Listed in the Contemporary Pharmacopias
 of A Number of Countries
 Orig. Pub. : Arkhiv Farmats, 8, No 1, 69-75 (1958)

Abstract : The author discusses a number of substances used in
 the pharmacopias of various countries as bases for
 ointments with a view to their introduction in
 Yugoslav pharmaceutic practice.

I. Matveyev

Card: 1/1

H-71

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550910004-6
 YUGOSLAVIA / Chemical Technology. Drugs. Vitamins. Anti- H
 biotics.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74950.

Author : Mikrovich, Sirovites.
 Inst : Not given.
 Title : Stabilization of Sirupus Ferrosi Iodidi.

Orig Pub: Acta pharmac. jugosl., 1957, 7, No. 3, 157-162.

Abstract: From the investigations carried out, it was es-
 tablished that the reason for the difficulties
 encountered in the preparation of Sirupus Fer-
 rosi iodidi (I) by the method of Yugoslavian
 Pharmacopeia 2 is the surface oxidation of start-
 ing materials: Ferrum pulver. and Ferrum reduct.,
 after their prolonged storage.

Card 1/2

SIROVSKIY, B.A.

The forthcoming festival. Geog. v shkole 20 no.2:67-68 Nr-Ap '57.
(MLRA 10:4)

1. Shrednyaya shkola no. 248 goroda Moskvy.
(Moscow--Youth--Congresses)

SIROVSKIY, I.A.; FOMIN, A., redaktor.

[Valuable experience of the wholesale issue branch office of the Main Footwear Trading Corporation of the "Paris Commune" Factory] TSennyi opyt optovoi vykhodnoi bazy glavebuv'torga pri fabrike "Parishskaiia kommuna," Moskva, Gos.isd-v0 trgovoi lit-ry, 1955. 39 p. (MIRA 8:5)
(Shoe industry)

SIROVY, Vladimir, Inz. CSc.

Characteristics of the clay fraction of soils on loesses
and loess loams. Rost výroba 10 no. 5/6:555-566 My-Je '64.

1. Central Research Institute of Plant Production, Prague-
Ruzyně.

SIROVOSHKINA, A.A.

Mikhaylov, K. A. and Sirovoshkina, A.A. "Short method of curing syphilis by (sovarsenon)," Nauch. zapiski sor'k. in-ta dermatologii, venerologii i Kafedry kozhno-venenich. kolezney NMI im. Kirova, Issue 12, 1948, p. 147-59

SO: C-3264, 17 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

SIROVSKIY, M. (Noril'sk); FOMICHEV, Yu., slesar'-mekhanik

"I can not keep silent." Za rul. 21 no.7:14 J1 '63. (MIRA 16:8)

1. Moskovskoye konstruktorskoye byuro kinoapparatury (for
Fomichov).
(Automobile drivers)

SIROZHDINOV, S.Kh.; MAMATOV, M.

Local theorem for densities. Dokl. AN SSSR 142 no.5:1036-1037
F '62. (MIRA 15:2)

1. Tashkentskiy gosudarstvennyy universitet im. V.I.Lenina.
Predstavleno akademikom A.N.Kolmogorovym.
(Sequences(Mathematics))

SIRTS, A. I.

Intestines - Wounds and Injuries

Enterovenous fistula due to gun-shot wounds. Khirurgia no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195~~1~~₂, Uncl.

SIRTS, A.I.

Modification of Babcock's operation. Khirurgiia no.6:81 82 Je '54.
(MLRA 7:9)

1. Iz khirurgicheskogo otdeleniya (zav. otdeleniyem A.I.Sirts)
Slavutskoy rayonnoy bol'nitsy Kamenets-Podol'skoy oblasti (glavnyy
vrach T.M.Gutovskiy)
(VARICOSE VEINS, surgery,
*Babcock's operation, modified)

SIRTS, A.I. (g.Slavuta, Khmel'nitskoy oblasti, ul. Budennogo, d.27)

Application of the Pavlovian doctrine in surgery. Vest.khir. 77
no.6:114-120 Je '56. (MLRA 9:8)

(SURGERY,
Pavlovian theory in (Rus))

SIRTS, A.P.

Skin plastics in large wounds. Sov. med. 20 no.1:68-71 Ja '56
(MIRA 9:5)

1. Iz Slavutskoy rayonnoy bol'nitsy Kamenets-Podol'skoy oblasti.
(SKIN TRANSPLANTATION
in large wds.)
(WOUNDS AND INJURIES, surg.
skin transpl. in large wds.)

SIETS, L.I.

Acute perforating diverticulities. Khirurgiia no.7:76-77 '55.
(MLRA 8:12)

1. Iz khirurgicheskogo otdeleniya Slavutskoy bol'nitsy Kamanets-
Podol'skoy oblasti.
(ILKUM--SURGERY)

SIRUCEK, J.

Experiences in preparing standard industrial designs.

p. 164

Vol. 5, no. 4, 1955

ZA SOCIALISTICKOU VEDU A TECHNIKU

Praha, Czechoslovakia

Source: Monthly List of East European Accessions, (EEAL), LC, VOL. 5, no. 2
February 1956, Uncl.

SCHWARZBACH, Erik, promovany biolog; SIRUCEK, Jiri, 1936.

Fast methods of determining the content of nitrogen substances
in plants. Pt. 5. Rost vyroba 11 no.3:331-336 Nr '65.

1. Main Special Station of Mutation Breeding, Stupice (for
Schwarzbach). 2. Main Special Sereal Breeding Station, Branisovice
(for Sirucek). Submitted February 27, 1964

SIRUCAK, V.

Ivanovsky, E. Crushing equipment used in subsurface mining. p. 81.
RDY, Praha, Vol. 3, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (BEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

SIRUNYAN, A.N.; ZAFERMAN, N.I.

Results of testing a remote dynamometric installation in the field No.4 of the Oil Field Administration of the "Ordzhonikidze Petroleum" Trust. Azerb. neft. khoz. 38 no.5:28-29 My '59.
(Dymanometer) (Remote control)

SIRVIDAS, A. P.

Cand Bio Sci, Diss -- "On the problem of temperature and heat exchange of plants". (Vil'nyus, 1961. 17 pp, 20 cm (Min of Higher and Inter Spec Educ USSR. Vil'nyus State U imeni V. Kapsukas), 250 copies, Not for sale (KL, No 9, 1961, p 180, No 24317). [61-50347]

SAZONOV, A.M.; SIRVIDAS, V.I.

Energy distribution of gamma radiation in solid medium. Atom. energ.
15 no.5:420-422 N '63. (MIRA 16:12)

SIRYACHENKO, E.I.; RYZHENKOV, V.Ye.

Some glyccocorticoidlike properties of echinatic, meristotropic and
malonic acids. mast. rev. 1 no.3:376 '65. (MIRA 18:19)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

SLAVOROSOV, Aleksey Kharitonovich; BUTYLINA, A.I., retsenzent;
HUKRINSKIY, V.A., retsenzent; SIRYACHENKO, F.N., ved.
red.

[Mine surveyors and their assistants] Marksheiderskii
rabochii i s"emshchik. Izd.3., perer. i dop. Moskva,
Nedra, 1964. 267 p. (MIRA 17:12)

SIRYACHENKO, F.II.

BABOKIN, I.A., redaktor; BALBACHAN, Ya.I, redaktor; BARABANOV, F.A., redaktor; BUCHNEV, V.K., redaktor; VLADIMIRSKIY, V.V., redaktor; GHIGOR'YEV, S. Ye., redaktor; DOKUKIN, A.V., redaktor; ZHABO, V.V. redaktor; ZADIMIDKO, A.N., redaktor; ZAITSEV, A.P., redaktor; IL'ICHEV, A.S., redaktor; KAGAN, V.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRASOZOV, I.P., redaktor; KRIVONOGOV, K.K., redaktor; LALAYANTS, A.M., redaktor; MOGILEVSKIY, N.M., redaktor; ONIKA, D.G., redaktor; OSTROVSKIY, S.B., redaktor; OSTROVSKIY, S.N., redaktor; PEYSAKHOVICH, G.I., redaktor; POCHENKOV, K.I., redaktor; SIRYACHENKO, F.N.; redaktor. SKOCHINSKIY, A.A., redaktor; STUGAREV, A.S., redaktor; SKORKIN, K.I.; SKURAT, V.K., redaktor; SOBOLEV, G.G., redaktor; TERPITOREV, A.M., redaktor; KHUDOCOVTSSEV, N.M., redaktor; TSYPKIN, V.S., redaktor; SHEVYAKOV, L.D., redaktor; SHELKOV, A.A., redaktor; ANDREYEV, G.G., tekhnicheskly redaktor.

[Safety rules in coal and shale mines] Pravila bezopasnosti v ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1951. (MLRA 9:1) 207 p.

1. Russia (1923- U.S.S.R) Ministerstva ugol'noy promyshlennosti. (Coal mines and mining-Safety measures)

SIRYACHENKO, F.N:

For miners. Sov.profsoluzy 7 no.9:63 My '59. (MIRA 12:8)

1. Zamestitel' glavnogo redaktora Ugletekkhizdata.
(Bibliography--Mining engineering)

SIRYACHENKO, K.P.

DODIN, A.Ya., inzh.; KRYUKOV, I.I., dotsent; PROMIN, A.I., inzh.;
SIRYACHENKO, K.P., inzh.; STOVAS, M.V., dotsent; EPSHTEYN, M.M.,
dotsent.

Engineering and geodetic observations on deformations in transport-
and-dumping bridges. Ugol' Ukr. 3 no.7:24-27 JI '59.
(MIRA 13:11)

1.Dnepropetrovskiy gornyy institut.
(Mine surveying)

KRYUKOV, I.I., dotsent; SIRYACHENKO, K.P., inzh.; STOVAS, M.V., dotsent

Using an engineering geodetic method to determine deformation
of transporter bridges. Izv.vys.ucheb.zav.; gor.zhur. 5
no.2:82-85 '62. (MIRA 15:4)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
instituta imeni Artema. Rekomendovana kafedroy geodezii.
(Transporter bridges)

GORYUNOV, A.I., inzh.; KRYUKOV, I.I., dotsent; SIRYACHENKO, K.P., inzh.;
STOVAS, M.V., dotsent

New method of determining corrections for bends in the metal construction of transporter bridges. Izv. vys. ucheb. zav.; gor. zhur. 6 no.7:87-90 '63. (MIRA 16:9)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znamenii gornyy institut imeni Artema. Rekomendovana kafedroy geodezii Dnepropetrovskogo instituta.

(Transporter bridges)

RYABETS, N.P.; SIRYACHENKO, M.G.

High-speed pneumatic turn table. Mashinostroitel' no.4:13 Ap '65.
(MIRA 18:5)

СЕРИЯ 1111, 1111

Визитка с дырками, серия 1111-17 01 1965.
(МIRA 18x8)

BELYAVSKAYA, L. I.; SIRYAK, A. I.

"Concerning the effect of gamma irradiation on the electroconductance of alkaline silicate glasses in intensive electric fields."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad,
16-21 Mar 64.

L 4990-66 EWP(e)/EWT(m)/EPF(c)/EWP(1)/EPF(n)-2/EWA(h)/EWA(1) GG/WH

ACC NR: AP5027434

SOURCE CODE: UR/0181/65/007/011/3427/3428

AUTHOR: Belyavskaya, L. M.; ⁴⁴Siryak, A. I. ⁴⁴

46
23

ORG: Tomsk State University (Tomskiy gosudarstvennyy universitet)

TITLE: Some characteristics of magnetoresistance of alkali silicate glasses after gamma-irradiation and thermal treatment

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3427-3428

16.44

TOPIC TAGS: irradiation, gamma irradiation, mechanical heat treatment, magnetoresistance, silicate glass

ABSTRACT: To obtain more information on the character of the transverse effect of magnetoresistance ($E \perp H$), specimens of sodium silicate glasses of different composition were investigated in a magnetic field (from 0.5 to 1.9 weber/m²) after γ -irradiation with doses of 10⁶ to 10⁷ r at an intensity of 20 r/sec at room temperature.

Co⁶⁰ with a quantum energy $h\nu = 1.25$ Mev was the irradiation source. The content of Na₂O in the specimens (10 x 2 x (0.3-1.1) mm) was 16, 20, 26, 33, 36, and 50 mol %. The smallest specimen was adjusted in the direction of the magnetic field and the largest, in the direction of the electric field. All measurements were carried out for the direct and reverse directions of the magnetic field. The direction of irradiation corresponded to the direction of the magnetic field. The following results were obtained: 1) The previously detected effect of transverse magnetoresistance in

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09010315

L 09876-67 EWP(c)/EWT(m) GG/WH
ACC NR: ARG032546 SOURCE CODE: UR/0139/66/000/004/0031/0035

55

AUTHOR: Siryak, A. I.

ORG: Siberian Physicotechnical Institute imeni V. D. Kuznetsov (Sibirskiy fiziko-tehnicheskii institut)

TITLE: Characteristics of the electrical conductivity of alkali silicate glass in strong electric fields after exposure to gamma radiation

SOURCE: IVUZ. Fizika, no. 4, 1966, 31-35

TOPIC TAGS: electric conductivity, electric field, silicate glass, gamma radiation, alkali silicate glass, volume charge, high voltage polarization

ABSTRACT: An explanation is given of the stable radiational variations in electrical conductivity in strong electric fields in sodium alkali silicate glass. The concept of the accumulation of volume charge, produces high-voltage polarization in the presence of electrons induced by gamma radiation, is applied. It is assumed that the recombination of electrons and sodium cations and their dissociation are controlled by a strong electric field. [Author's abstract]

SUB CODE: 20/ SUBM DATE: 07Mar65/ ORIG REF: 009/

Card 1/157

REZNICHENKO, V.A.; TKACHENKO, V.A.; SIRYAPOV, G.V.; KOZLOV, V.M.;
SIDORENKO, G.D.

Reduction of ilmenite concentrates in a fluidized bed. Titan
i ego splavy no.5:60-64 '61. (MIRA 15:2)
(Titanium--Metallurgy)
(Fluidization)

REZNICHENKO, V.A.; SIRYAPOV, G.V.; SOLOV'YEV, V.I.

Two-stage smelting of ilmenite concentrates. Titan i ego splavy
no.9:96-104 '63. (MIRA 16:9)
(Titanium—Electrometallurgy)

Country : USSR
Category : Pharmacology and Toxicology. Hormonal Prepara-
tions
Abs. Jour. : Med Zhur-Biol, No 13, 1958, No 61484
Author : Yegorova, L. I.; Siryatskaya, L. N.
Institut. : -
Title : Blood Changes in Patients with So-Called Non-
Specific Infectious Arthritis Treated with Cor-
tison
Orig. Pub. : Sov. meditsina, 1957, No 3, 31-35
Abstract : Cortisone was administered in daily doses of
25-300 mg. with a total dose of 2.5-3.5 g. per
course of treatment. Observation of 70 patients
showed that the use of cortisone diminishes
edema of the joints, lowers temperature and in-
creases the motion range. Also observed were
diminution in the absolute and relative number
of eosinophils, slowing of the erythrocyte se-
dimentation rate and an increase in the number
of leukocytes and in prothrombin content.
Card: 1/2

PSHEZHETSKIY, S.Ye.; KAMENETSKAYA, S.A.; GRIBOVA, Ye.I.; PANKRATOV, A.V.;
MOROZOV, N.M.; POSPELOVA, I.N.; APIN, A.Ya.; SIRYATSKAYA, V.N.;
SLAVINSKAYA, N.A.; CHEREDNICHENKO, V.M.

Kinetics of the decomposition and explosion of ozone.
Probl.fiz.khim. no.2:27-38 '59. (MIRA 13:7)

1. Laboratoriya kinetiki gazovykh reaktsiy Nauchno-issledovatel'-
skogo fiziko-khimicheskogo instituta im. L.Ya.Karpova.
(Ozone) (Explosions)

05833
SOV/76-33-10-31/45

Pshezhetskiy, S. Ya., Morozov, N. M., Kamenetskaya, S. A., Sir-
yatskaya, V. N., Gribova, Ye. I.

5(4)
AUTHORS:

TITLE:

Kinetics of the Thermal Decomposition of Ozone

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 10,
pp 2306 - 2315 (USSR)

ABSTRACT:

According to A. V. Pankratov and S. Ya. Pshezhetskiy (Ref 1), the quantum yield of photochemical ozone decomposition in liquid phase attains a value of 20. Investigations of the kinetics of thermal ozone decomposition have not fully explained this problem. Thus, values of 23-31 kcal were given for the activation energy in various publications. Further investigations of this problem were made by L.S. Kassel' (Ref 2), Benson, and Axworthy (Ref 3). In this article, the authors measured the reaction kinetics of thermal ozone decomposition at small, medium, and high ozone concentrations and various reaction surfaces within a wide temperature range. Experiments were made under static and dynamic conditions (at low concentration). The decomposition rate of ozone was determined at a pressure of 30-760 mm Hg and various initial ozone-hydrogen ratios within

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Kinetics of the Thermal Decomposition of Ozone

05833
SOV/76-33-10-31/45

the temperature range 70-170°. The results of some typical experiments are listed (Tables 1-3). The velocity constant of decomposition, calculated according to the equation of second order, varies in dependence on the ratio $O_2:O_3$ as well as the "actual" activation energy which rises from 18 (95-97% O_3) up to 27 kcal (2-3% O_3). At very high and low ozone concentrations, the equation of second order holds with sufficient approximation. Extension of the reaction surface by 4.7 times does not change the reaction rate (Table 4). The factor before the exponent also varies with the composition of the gas mixture (Table 5). In concentrated mixtures, it is smaller by 10^{-10^2} than the number of double collisions, and 10^2-10^4 times greater than the latter in dilute mixtures. An equation for the reaction rate was set up by the method of constant concentration which was suggested by Schumacher and Glissmann (Ref 10). The factors before the exponents and the activation energies were calculated for the four elementary reactions of the process (Table 6). The decomposition of ozone at the surface seems to be heterogeneous and of first order as confirmed by data by Markevich (Refs 6,7). There are 3 figures, 6 tables, and 24 references, 8 of which are Soviet.

Card 2/3

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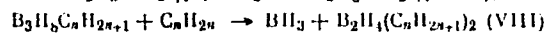
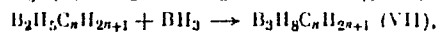
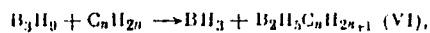
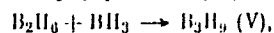
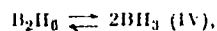
SOV/79-30-1-49/78

AUTHORS: Zhigach, A. F., Siryatskaya, V. N., Antonov, I. S., Makayeva, S. Z.

TITLE: Concerning the Mechanism of Diborane Reaction With Olefins

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 227-230 (USSR)

ABSTRACT: Diborane reacts with excess olefins, and forms, successively, alkylidiboranes (RB_2H_5 ; $R_2B_2H_4$; $R_3B_2H_3$; etc.) according to the reactions:



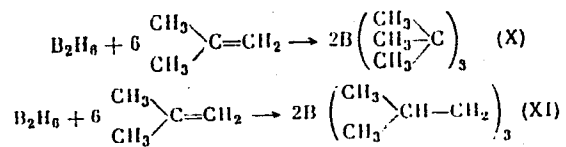
Card 1/3

Concerning the Mechanism of Diborane
Reaction With Olefins

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SOV/79-30-1-49/78

Theoretically, a B atom can join either of the C=C carbon atoms and form isomers. According to D. Hurd, diborane gave with olefins equal amounts of isomers (X) and (XI); for example:



It was also reported (J. Am. Chem. Soc., 1956, Vol 78, p 5694; Chem. Eng. News, 1957, Vol 6, Nr 28) that the olefins, on reduction with sodium borohydride in the presence of AlCl_3 , gave the corresponding primary alcohols. In view of the contradictory data on the order of diborane addition to olefins, the authors investigated the mechanism of this reaction. Propylene with diborane on heating to $230-250^\circ \text{C}$ gave tripropylboron in 91%

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I. 11,612-66 EWT(m)/T/EWP(j) WN/JW/RM
ACC NR: AP6001497 (A) SOURCE CODE: UR/0191/65/000/012/0019/0021

AUTHORS: Shapatin, A. S.; Golubtsov, S. A.; Solov'yev, A. A.; Zhigach, A. F.; Siryatskaya, V. N. 37

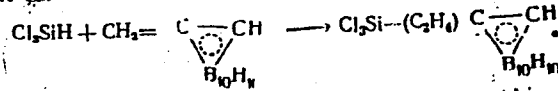
ORG: none

TITLE: Addition of hydrides of silicon chlorides to alkenyl carboranes 7.44.55 B

SOURCE: Plasticheskiye massy, no. 12, 1965, 19-21

TOPIC TAGS: silane, organic synthetic process, catalysis, silicon compound, catalyst, ferric chloride

ABSTRACT: A simplified method for synthesizing carborane siliconorganic monomers is offered. It consists of adding chlorosilicon hydrides to alkenyl carboranes, according to the equation:



The following reactions were studied: methylchlorosilane with carborane derivatives containing vinyl, isopropenyl, propenyl, or butenyl groups; trichlorosilane and dimethyl chlorosilane with vinyl and isopropenyl carborane; ethyl dichlorosilane and phenyldichlorosilane with isopropenylcarborane. Elementary analysis and

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UDC: 678.84

2

I. 11,612-66

ACC NR: AP6001497

physical properties of the resulting 10 compounds are reported. In the absence of the catalyst the reaction occurs only above 200C and results in very low yields. The yields increase to 80% and more, and the required temperatures are lowered by the addition of chloroplatinic acid or ferric chloride as catalysts. Orig. art. has: 2 tables and 1 equation.

SUB CODE: 07// SUBM DATE: none/ ORIG REF: 001/ OTH REF: 004
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Card 2/2

L 13357-66 (A)
ACC NR: AP6002477

EWT(m)/EWP(j)/T/EWA(c)

RPL

WW/JW/JWD/RM

SOURCE CODE: UR/0191/66/000/001/0021/0022

AUTHORS: Sobolevskiy, M. V.; Zhigach, A. F.; Grinevich, K. P.; Sarishvili, I. G.; Siryatskaya, V. N.; Kozyrava, Ye. M.

ORG: none

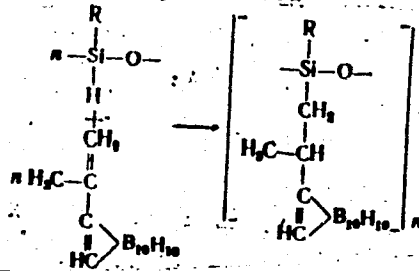
TITLE: Synthesis of polyalkylcarboranesiloxanes 741, 53

53
B

SOURCE: Plasticheskiye massy, no. 1, 1966, 21-22

TOPIC TAGS: polymer, boron compound, borane, organosilicon compound, organoboron compound

ABSTRACT: To extend the available data on the properties of carboranesiloxane polymers described in J. Polymer Sci., 2 No. 1 (1964); 2 No. 7 (1964), the following polyalkylcarboranesiloxane polymers were synthesized



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UDC: 678.84

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ACC NR: AP6002477

where

 $R: CH_3, C_2H_5, C_6H_5$

The effects of pressure, temperature, and reaction time on the degree of reaction were studied. The weight loss of the polymers at 140C and 210C was determined as a function of time, and the results are shown graphically in Fig. 1.

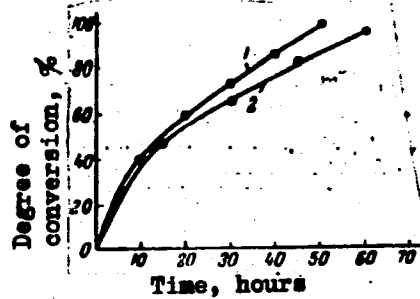


Fig. 1. Dependence of the degree of conversion on the reaction time for the reaction between polyethylhydrosiloxane and isopropenylcarborane at 250C. 1 - polyethylhydro-polyethylcarboranesiloxane; 2 - polyethylcarboranesiloxane.

It is noted that polyethylcarboranesiloxane has a greater thermal stability than polyethylhydro-polyethylcarboranesiloxane and the initial polyethylhydrosiloxane. Orig. art. has: 4 graphs and 2 equations.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 003
Card 2/20007/

ACC NR: AP7001492

SOURCE CODE: UR/0192/66/007/006/0883/0885

AUTHOR: Vilkov, L. V.; Mastryukov, V. S.; Zhigach, A. F.; Siryatskaya, V. N.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Electron diffraction study of the neocarborane molecule

SOURCE: Zhurnal strukturnoy khimii, v. 7, no. 6, 1966, 883-885

TOPIC TAGS: neocarborane, molecular structure, electron diffraction, icosahedron, icosahedral model, *electron diffraction analysis, isomerization*

ABSTRACT: The structure of the neocarborane molecule $B_{10}C_2H_{12}$ has been studied by the electron diffraction method in the gaseous phase. Neocarborane was prepared by thermal isomerization of ortho-carborane at 480C for 30 hr. Experimental curves of the molecular scattering component $sM(s)$ and of the radial distribution $f(r)$, and a table of the positions of maxima on the $f(r)$ curve are given in the source. Experimental data were compared with the respective data for a model of a regular icosahedron with carbon atoms meta to each other. This model was in accordance with earlier assumptions on the structure of neocarborane, and the chemical and physical properties of the compound.

Card 1/2

UDC: 539.27

ACC NR: AP7001492

It was shown that this icosahedral model is in complete agreement with electron diffraction data. The basic parameters of the neocarborane molecule are: $r(\text{BB}) = r(\text{BC}) = 1.77, \pm 0.01 \text{ \AA}$; $r(\text{BH}) = 1.21 \pm 0.03 \text{ \AA}$; [$r(\text{CH}) = 1.10 \text{ \AA}$]. Orig. art. has: 2 figures and 1 table. [W. A. 77]
[BO]

SUB CODE: 07, 21/ SUBM DATE: 16Mar66/ ORIG REF: 005/ OTH REF: 012

Card 2/2

SHAL'MIN, S., inzh.; SIRYATSKIY, A., inzh.; SENNIKOV, Yu., inzh.

Stand for assembling reducing gears. Avt. transp. 43 no.12:
30, 35 D '65. (MIRA 18:12)

SIRYK, G.V.

Conformal mapping of close regions. Dop. ta pev. L'viv.un. no.6
pt 2:113-119 '55. (MIRA 10:3)
(Conformal mapping)

SIRYK, G.V.

Approximate method of conformal mapping. Dep. ta pev. L'viv.un.
no.6 pt 2:119-122 '55. (MIRA 10:3)
(Conformal mapping)

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/1 PG - 520
AUTHOR SIRYK G.V.
TITLE On the conformal mapping of little different regions one onto another.
PERIODICAL Uspechi mat.Nauk 11, 5, 57-60 (1956)
revised 1/1957

For the determination of the conformal mapping of the circle, the halfplane, the strip and a ring on an "almost-circle", an "almost-halfplane" etc., for simply connected regions the formulas of Schwarz (for the halfplane e.g.

$$F(z) = \frac{1}{\pi i} \int_{-\infty}^{+\infty} \operatorname{Re} F(t) \frac{dt}{t-z}, \text{ for ring regions a formula of Villat (Rend.d.}$$

Circ.Mat. Palermo 33, (1912)) are used and after certain limit processes singular integral equations are obtained the solutions of which are the sought mapping functions. The investigation is of formal character because the existence of the solutions of the mentioned integral equations is guaranteed under additional conditions only which are not considered by the author. Some of the obtained integral equations can be solved by successive approximation.

INSTITUTION:UZGOROD.

86189

S/140/60/000/005/016/021
C111/C222

16.3000

AUTHOR: Siryk, G.V.TITLE: The Generalization of the Variation Formula of M.A. Lavrent'yev^{1b}
for the Conformal Mapping of Little Different Simply Connected
Regions to the Case of Doubly Connected RegionsPERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960,
No. 5, pp. 152 - 159

TEXT: At first the author considers an annulus $\frac{1}{\mu} < |z| < 1$ from which a little lune is separated the corners of which lie on $|z| = 1$ or on $|z| = \frac{1}{\mu}$. By a number of elementary conformal mappings the cut annulus is mapped at first onto a rectangle with a missing small semicircle, then onto a halfplane with a missing semicircle, then onto the whole halfplane, then onto a rectangle and finally onto a whole annulus. By neglecting the terms being small of higher order with respect to the area of the lune, the author obtains explicitly the function which performs the total mapping. If we have a doubly connected region being little different
Card 1/3

X

86189

S/140/60/000/005/016/021
C111/C222

The Generalization of the Variation Formula of M.A. Lavrent'yev for the Conformal Mapping of Little Different Simply Connected Regions to the Case of Doubly Connected Regions

from an annulus and bounded by

$$(23) \quad r_1(\varphi) = 1 - \delta_1(\varphi), \quad r_2(\varphi) = \frac{1}{\mu} (1 - \delta_2(\varphi)), \quad 0 \leq \varphi < 2\pi$$

where

$$(24) \quad |\delta_i(\varphi)| < \varepsilon_i, \quad |\delta_i'(\varphi)| < \varepsilon_i, \quad |\delta_i''(\varphi)| < \varepsilon_i, \quad i = 1, 2$$

then for the mapping onto an annulus the variation formula

$$w = z \left\{ 1 + i \frac{K}{h^2} \int_0^{2\pi} z_1 \left(-i \frac{K}{h} \ln z - \frac{K}{h} \varphi \right) \delta_1(\varphi) d\varphi - \right. \\ \left. - i \frac{K}{h^2} \int_0^{2\pi} z_1 \left(i \frac{K}{h} \ln \mu z + \frac{K}{h} \varphi \right) \delta_2(\varphi) d\varphi \right\}$$

Card 2/3

86189

S/140/60/000/005/016/021
C111/C222

The Generalization of the Variation Formula of M.A. Lavrent'yev for the Conformal Mapping of Little Different Simply Connected Regions to the Case of Doubly Connected Regions

can be given which was already published by the author in (Ref. 4). Here $Z_1(u)$ is the Jacobian function, and K is a constant.

The author thanks Professor L.I. Volkovyskiy for the leading. There are 5 figures and 4 Soviet references.

ASSOCIATION: Uzhgorodskiy gosudarstvennyy universitet
(Uzhgorod State University)

SUBMITTED: October 21, 1958

Card 3/3

SIRYK, G. V. Cand Phys-Math Sci -- "On the approximate conformal ~~transformation~~ ^{reflection}
of ~~simply-connected~~ ^{simply-bound} and doubly-~~connected regions~~ ^{bound fields}." Uzhgorod, 1961 (Joint Academic
Council of Insts of Phys, Math, and Metal Phys, Acad Sci UkSSR). (KL, 4-61,185)

16/3000

S/044/62/000/008/069/073
C111/C333

AUTHOR: Siryk, G. V.
TITLE: On the program for the approximative conformal mapping of double connected domains
PERIODICAL: Referativnyy zhurnal, Matematika, no. 8, 1962, 65, abstract 8V380. ("Dokl. i soobshch. Uzhgorodsk. un-t. Ser. fiz.-matem. n.", 1961, no. 4, 111-112) √B
TEXT: One proposes an operator scheme for the putting up of the program for the solution of the non-linear algebraic equation system, which is obtained in an approximative conformal mapping of the circular ring on a double connected domain.

[Abstracter's note: Complete translation.]

Card 1/1

MARKO, M.E.; SIRYK, G.V.

Standard program for approximate conformal mappings of doubly
connected regions. Dokl. i soob. UznGU. Ser. fiz.-mat. i ist.
nauk no.5:101-103 '62. (MIRA 17:9)

SIRYK, I.

Brief news. Izv. vys. ucheb. zav.; neft' i gaz 5 no.3:18,42,54,
84.62.94,102,108,114 '62. (MIRA 16:8)

1. Zamestitel' direktora Sakhalinskogokompleksnogo nauchno-
issledovatel'skogo instituta Sibirskogo otdeleniya AN SSSR.

STASENKOV, V.V.; SIRYK, I.M.; RAZUMOV, N.V.

Oil and gas potentials of the western edge of the central Sakhalin
synclinorium. Geol.i geofiz. no.12:7-13 '61. (MIRA 15:5)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut,
g. Novo-Aleksandrovsk.

(Sakhalin--Petroleum geology)
(Sakhalin--Gas, Natural--Geology)

SIRYK, I.M.

Mud volcanoes in southern Sakhalin as probable satellites of
oil and natural gas fields. Geol. i geofiz. no.7:66-75 '62.
(MIRA 16:7)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut
Sibirskogo otdeleniya AN SSSR, Novo-Aleksandrovsk.
(Sakhalin--Mud volcanoes)
(Sakhalin--Petroleum geology)
(Sakhalin--Gas, Natural--Geology)

A 53
i

SA

PROCESSES AND PROPERTIES INDEX

619.14

619.14 The polarization fluorescence of vapours of organic dyes. K. K. SUDHAKAR and A. C. SUDHAKAR. *Indian J. Chem. Anal. Chem.*, 75 (No. 1) 619-621 (1957) *Ind. Chem.*

Measurements were made of the degree of polarization of the fluorescent radiation emitted by organic dyes by a super-high pressure Hg lamp. Both a Savart polariscope and a photographic method were used and the accuracy of the results (2%) was checked by examining the fluorescence of a glycerine solution of anthracene for which the degree of polarization was already known as a function of viscosity. The fluorescence from anthracene vapour at 101°C was found to be 5 ± 2% polarized, but no polarization was detected for the vapours of thiodiure orange nor for certain phthalimides at about 160-200°C.

A. C. SUDHAKAR

METALLURGICAL LITERATURE CLASSIFICATION

ASST. DIR. METALLURGY

ASST. DIR. CHEMISTRY

ASST. DIR. PHYSICS

ASST. DIR. BIOLOGY

ASST. DIR. AGRICULTURE

ASST. DIR. MINING

ASST. DIR. METEOROLOGY

ASST. DIR. MARINE

ASST. DIR. AIR FORCE

ASST. DIR. NAVY

ASST. DIR. SPACE

ASST. DIR. OTHER

SIRYUK, A.G.

USSR/ Chemistry - Spectroscopy

Card 1/1 Pub. 43 - 37/62

Authors *Zimina, K. I.; Iogansen, A. V.; and Siryuk, A. G.

Title *Application of infrared spectroscopy to the study of petroleum products

Periodical *Izv. AN SSSR. Ser. fiz. 18/6, page 707, Nov-Dec 1954

Abstract *Experiments were conducted to determine the applicability of the group structural analysis according to infrared absorption spectra to the study of gasolines, kerosenes, oils and tarry substances (petroleum products). It was determined that infrared spectroscopy can find broad application in the analysis of petroleum in a wide range of molecular weights. Spectroscopy offers greater perspectives in the study of simple hydrocarbon mixtures than the quantitative analysis method.

Institution : Central Institute of Aviation Fuels and Lubricants

Submitted :

SIRYUK. A.G.

1277. The structural analysis of petroleum products by infra-red absorption spectra. R. I. Zimina, A. V. Izangan and A. G. Siryuk. Report of Symposium "Metody Issledov. Neft. Nefteprodukt. M. Gosoptekhizdat," 1955, 223-235; Ref. Zhur. Khim., 1956, Abstr No 36,217. -- Several uses of infra-red spectroscopy are discussed. In particular it is shown that, of the samples of resinous substances from petroleum that were studied, a characteristic is the presence of >C=O groups. In the deparaffinisation of kerosene by direct distillation of eastern petroleum with urea, both n- and isoparaffin hydrocarbons are obtained; in the deparaffinisation of kerosene from thermal cracking with urea no removal of α -olefins takes place; unsaturated hydrocarbons of various types are obtained in the same proportions as in the original product, in petrol from catalytic cracking the following types of unsaturated hydrocarbons have been established--RR'C:CHR', trans-RHC:CHR' and RR'C:CH₂.

3

Belmont

fmb mc

SIRYUK, A. G.

TRIKHOT'KO, A. F.
24(7) p 3 PHASE I BOOK EXPLOITATION SOV/1365
L'vov. Universytet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii. t. 11
Molekulyarnaya spektroskopiya (Papers of the 10th All-Union
Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy)
[L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies
printed. (Series: Its: Fizichnyy zbirnyk, vvp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
spektroskopii. Ed.: Sazer, S.L.; Tech. Ed.: Saranyuk, T.V.;
Editorial Board: Lavsterg, G.S., Academician (Resp. Ed., Deceased),
Neporent, B.S., Doctor of Physical and Mathematical Sciences,
Pabelinskiy, I.L., Doctor of Physical and Mathematical Sciences,
Fabrikant, V.A., Doctor of Physical and Mathematical Sciences,
Kornitskiy, V.G., Candidate of Physical and Mathematical Sciences,
Candidate of Physical and Mathematical Sciences, Rayskiy, S.M.,
Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K.,
Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S.,
A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

Savinov, B.G. Use of Infrared Absorption Spectra in
Determining the Characteristics of the Products of
Vitamin E Synthesis

265

Belyy, M.U. Optical Method for the Determination of
the Composition of Complexes in Solutions

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Liplavk. Analysis of Phenol-naphthalene Mixtures
by Means of Ultraviolet Absorption Spectra

270

Zimina, K.I., and A.G. Siryuk. Group Determination
of the Naphthalene Hydrocarbons by Means of
Ultraviolet Absorption Spectra

272

Shabadash, A.N., V.P. Fshenitsyna, and V.M. Khisheva.
Spectrophotometric Methods of Phase Control in
Processing Acetic Anhydride

275

Neporent, B.S., K.P. Vasilevskiy, and N.A. Lapina.
Qualitative Absorption by Means of Water Vapor in
Near Infrared Region

Card 18/30

SIRYUK, A.G.; ZIMENA, K.I.

Particular features of the ultraviolet spectra of certain types
of aromatic hydrocarbons. Khim.i tekhn.topl.i masel 7 no.5:23-
26 My '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.
(Hydrocarbons--Spectra)

S/048/62/026/010/005/013
B117/B186

AUTHORS: Kusakov, M. M., Shimanko, N. A., Shishkina, M. V.,
Zimina, K. I., and Siryuk, A. G.

TITLE: Ultraviolet absorption spectra of aromatics

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,
v. 26, no. 10, 1962, 1249-1252

TEXT: This paper deals with the rules governing the effect of saturated substituting groups on the absorption spectra of a number of mono- and bicyclic aromatics. It has been found that, according to the number and position of substitutes, the absorption spectrum of alkyl benzenes is shifted towards the long-wave region, and the absorption intensity maxima are intensified. In the case of cycloalkyl benzenes (naphthene-aromatic hydrocarbons) with a similar spectrum this shift is related to the substitution of cyclopentyl groups for the alkyl groups. The structure of indanes (hydrindenes), which show absorption spectra and which absorb 2-3 times more strongly than benzene, can be determined by comparing their spectra with those of corresponding alkyl-substituted benzenes and simple homologs of indane. The ultraviolet spectra of tetrahydronaphthalenes

Card 1/2

Ultraviolet absorption spectra...

S/048/62/026/010/005/013
B117/B186

(tetralines) follow the same laws as alkyl benzenes, cycloalkyl benzenes, and indanes. Diphenyls and benzenes have different spectra. Most m- and p-substituted diphenyl homologs are characterized by strong absorption and by the absence of a fine structure in the bands. The spectra of ortho-substituted diphenyl are subject to considerable changes. Diphenyl alkanes and alkyl diphenyl alkanes: The absorption spectra of several diphenyl methanes are similar to those of benzene. The spectra of aromatics with condensed rings show a specific character. Naphthalene has an absorption spectrum covering the range 2100-3300 Å and is characteristic of all naphthalene homologs. As the absorption spectra characteristic of polycyclic aromatics are hardly affected by substituting groups these are suitable for analytical purposes. An atlas (M. M. Kusakov, N. A. Shimanko, M. V. Shishkina, Ul'travioletovyye spektry pogloshcheniya aromaticeskikh uglevodorodov (Ultraviolet absorption spectra of aromatics), Izd. AN SSSR, M., 1962) was compiled for the practical application of ultraviolet spectroscopy. The ultraviolet spectra of mono- and bicyclic aromatics, graphically represented on the same scale and in terms of $\epsilon = f(\lambda)$ or $\log \epsilon = f(\lambda)$, were partly recorded by the present authors and partly taken from publications (American Petroleum Institute Research Project 44, Ultraviolet Spectra Data, 1958).

Card 2/2

S/065/63/000/002/006/008
E075/E436

AUTHORS: Siryuk, A.G., Zimina, K.I.

TITLE: Quantitative determination of some aromatic hydrocarbons by ultraviolet absorption spectra

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.2, 1963, 52-56

TEXT: Naphthalene, phenanthrene and anthracene structural groups were determined in petroleum vacuum distillates boiling up to 350 to 400°C by ultraviolet spectroscopy. The concentration of the analyzed structural groups C_{str} in a given oil is determined from its specific extinction coefficient. For an oil containing naphthalene, phenanthrene and anthracene hydrocarbons the specific extinction coefficient is given by $k = K_n \cdot C_{an} + K_{ph} \cdot C_{aph} + K_a \cdot C_{aa}$ where C_{an} , C_{aph} and C_{aa} are the weight percents of naphthalene, phenanthrene and anthracene structural groups in the oil, and K_{ij} - the extinction coefficient of a structural group for wavelength λ_j . The absorption bands chosen were: 225 to 230 m μ for naphthalenes, 225 m μ for phenanthrenes and 375 m μ for anthracenes. The content of each aromatic hydrocarbon in an oil product can be thus approximately calculated if its mean molecular
Card 1/2

Quantitative determination ...

S/065/63/000/002/006/008
E075/E436

weight is known. The method is unsuitable for the determination of benzene rings (mono-aromatics). The most accurate results are obtained for complex mixtures such as lubricating oils. Tetracyclic aromatics interfere in the determination, but little interference is caused by sulfides, thiophenes, mercaptans, disulfides and thioindanes. It is expected that benzothiophenes will interfere. The method requires only 0.1 g of sample and the analysis can be completed in 30 minutes. There are 3 tables.

ASSOCIATION: VNII NP

Card 2/2

SIRYUK, A.G.; ZIMINA, K.I.

Quantitative determination of polycyclic aromatic hydrocarbons.
Trudy Kom.anal.khim. 13:359-366 '63. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Hydrocarbons) (Cyclic compounds--Absorption spectra)

SIRYUK, A.G.; IOGANSEN, A.V.

Quantitative determination of aromatic rings in heavy
petroleum products according to the infrared absorption spectrum.
Trudy Kom.anal.khim. 13:393-399 '63. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniya iskusstvennogo zhidkogo topliva.
(Aromatic compounds—Absorption spectra) (Petroleum products)

SIRYUK, A.G.; ZIMINA, K.I.

Quantitative determination of some aromatic hydrocarbons from their ultraviolet absorption spectra. Khim.i tekh.topl.i masel 8 no.2: 52-56 F '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniya iskusstvennogo zhidkogo topliva.

SIRYUK, A.G.; ZIMINA, K.I.

Spectral-chromatographic determination of hydrocarbons with condensed aromatic rings in petroleum products. Neftekhimia 4 no.3:501-506 My-Je '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti.

SIRYY, I.S., kand.tekhn.nauk

Selecting methods of measuring in machinery repair. Mekh. sil'.hosp.
11 no.8:22-23 Ag '60. (MIRA 13:9)
(Agricultural machinery--Maintenance and repair)

105-58-6-2/33

AUTHORS: Glebov, I.A., Candidate of the Technical Sciences
Kashtelyan, V.Ye., Engineer, Siryy, M.S., Engineer

TITLE: Electrical Braking of Synchronous Generators Connected
to Longdistance Transmission Lines (Elektricheskoye
tormozheniye sinkhronnykh generatorov, rabotayushchikh
na dal'niye linii elektroperedach)

PERIODICAL: Elektrichestvo, 1958, Nr 6, pp. 7-10 (USSR)

ABSTRACT: In this paper the results of the investigation of the
electrodynamic model of a trunk line of the type water-
-power plant Kuybyshev-Moscow, are shown. The model
generator had a rapidly effective excitation system and a
powerful regulator. It was possible to connect the load
resistances with the types of the generator as well as
with the high-voltage lines. In order to be able to
regulate the connecting and disconnecting of these
resistances a special wiring diagram has been constructed.
It could operate depending on time as well as depending

Card 1/3

105-58-6-2/33

Electrical Braking of Synchronous Generators Connected to Longdistance Transmission Lines

on the slip. In this case above all the electrical braking was investigated for the case of a shortest lagging time for the connecting of loading resistances in the existence of an automatic excitation control with small degree ($k = 1,5$). It is shown that a proper selection of the moments of connecting and disconnecting (of the loading resistances) guarantees a higher effectiveness of the electrical braking, even in the case of unknown amount of resistances and small degree of excitation. Such a control mechanism for connecting and disconnecting of the loading resistances can be realized according to the rotor slip of the synchronous generators, the size of which is determined by the character of the emergency conditions. The connecting takes place at a certain slip-value and the disconnecting in the case of a slip equal to zero, which corresponds to the moment when the rotor reaches the first maximal deviation. The following conclusions are drawn, based upon the investigation. 1) The electrical braking is most effective in combination with an automatic

Card 2/3

Electrical Braking of Synchronous Generators
Connected to Longdistance Transmission Lines

105-58-6-2/33

control of the excitation. No considerable degree of excitation is needed for the increase of the dynamic stability of distant transmission up to the level of static stability. The automatic excitation-control consists in this case essentially in securing the static stability.

2.) The regulation-mechanism proposed in this case, in connecting and disconnecting of the load resistances allows load resistances of constant power and thus guarantees the increase of the dynamic stability up to the level of static stability

3.)

Taking into consideration that the application of both the electrical and mechanical braking of synchronous motors consists in the uptake of the surplus output of their rotors in the case of emergency condition, the consequences mentioned here also essentially apply to mechanical braking. There are 6 figures and 7 references, 4 of which are Soviet.

Card 3/3

ASSOCIATION:

Institut elektromekhaniki Akademii nauk SSSR
(Institute for Electromechanics of the AS USSR)

SUBMITTED:

July 18, 1957

1. Power plants--Equipment
2. Generators--Control systems
3. Generators--Wiring diagrams

SIRYY, N.S.

BOBROV, V.M.; VORONOV, A.A.; GLEBOV, I.A.; IVANOV, V.I.; KARPOV, G.V.;
KASHTELYAN, V.Ye.; SEMENOV, V.V.; SIROTKO, V.K.; SIRYY, N.S.;
SUKHANOV, L.A.; URUSOV, I.D.; FETISOV, V.V.; FOMINA, Ye.N.;
KOSTENKO, M.P., akademik, red.; DOLMATOV, P.S., red.izd-va;
SMIRNOVA, A.V., tekhn.red.

[Electrodynamic modeling of power engineering systems] Elektro-
dinamicheskoe modelirovanie energeticheskikh sistem. Pod red.
M.P.Kostenko. Moskva, 1959. 406 p. (MIRA 13:2)

1. Akademiya nauk SSSR. Institut elektromekhaniki.
(Electric networks--Electromechanical analogies)

INDEX I BOOK EXPLANATIONS 804/1106

Abdulaevskiy, M. M. Institut elektromekhaniki
 Sorokh robot po upravleniyu elektromekhaniki, 77. 4; Elektricheskiye mashiny, elektricheskiye privody, elektricheskiye tipy na peremennom toke, avtomaticheskoye upravleniye elektromekhanicheskoy mashinoy, avtomaticheskoye upravleniye mashinoy (Collection of Works on Problems in Electromechanics, No. 4) Electric Machines, Electric Drive, A-C Electric Traction, Automated Electric Drive of Machines, Automatic Regulation and Instruments) Moscow, 1960. 262 p. 5,500 copies printed.

Rep. No. 1 V. V. Sida'nikov; M. of Publishing House: I. V. Surovov; Tech. Ed.: E. A. Znamenskaya.

PURPOSE: This collection of works is intended for specialists in electro-mechanics.
 CONTENTS: The collection contains 28 works divided into three sections: 1) Electric Machines; 2) Electric Drive and Electric Traction; 3) Automated Electric Drive, and Instruments and Instruments. No personalitities are mentioned. References accompany most of the articles.

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SIRY, N.S

SIRYY N. S.

Collected Papers (~~Soviet~~) Sbornik rabot po voprosam elektromekhaniki ^{SOV/4172} vyp. 3:
 Energeticheskiye sistemy, elektromashinostroyeniye, elektricheskaya tzyaga,
~~TABLE OF CONTENTS:~~ avtomatizirovannyi elektroprivod, avtomaticheskaye i
 telemekhanicheskiye sistemy, elektrovarochnoye oborudovaniye . Moscow, Izd-vo
 AN SSSR, 1960. 314p. POWER SYSTEMS

publ. from Institut elektromekhaniki
 Glebov, I.A. Operation of the Electronic Self-Excitation System of a Synchronous
 Generator in the Presence of Asymmetrical Faults [Short Circuits] 3
 The author deals with single- and two-phase short circuits and two-phase
 shorts; he describes experimental testing of voltage balancing, the operation
 of an electronic converter under asymmetrical voltage conditions, and the
 special design features of a synchronous generator with electronic self-exci-
 tation for both steady and transient conditions.

Glebov, I.A., V.Ye. Kashtelyan, and N.S. Siryy. Improving the Dynamic Stabili-
 ty of Long-Range Electric Transmission by Means of Electric Braking of Syn-
 chronous Generators 15
 The author describes tests on electric braking of synchronous generators
 using a model of the Volzhskaya GES-Moscow transmission line. They
 conclude that electrical braking is most efficient when combined with au-
 tomatic control of the excitation.

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SIRYYSMS

report to be presented at the 1st Intl Congress of the Intl Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

BYKOV, M. L. - "Ultra stability in electronic calculating devices in the solution of nonlinear equations in inderinite form".
 CHEKURIN, A. B. - "Use of calculating devices in systems for the automatic control of rolling mills".
 CHICHUMAZ, V. K. - "Concerning some problems of the organization of self-adjusting and self-teaching systems of automatic control, based on principles of random search".
 DAVYDOV, N. I. - "Development of automatic control systems for boiler units".
 DUBNIKOV, Ye. G. - "Optimization of optimum adjustments of industrial automatic regulation systems according to initial data obtained from experiments".
 DUBNIKOV, Ye. G. and SEMYASHEV, N. H. - "Methods of organizing hypnomy systems in the theory of nonlinear regulating systems".
 DZHEZHEV, N. H. - "Balanced regulation and inter-communications of a multi-motor electric drive and technology in continuous rolling mills".
 FEL'DBAUM, A. M. - "Problems of statistical theory of automatic optimization systems".
 FEJGIN, V. I. - "Automation of a reversible cold rolling mill for nonferrous metals".
 FILIPPOV, A. P. - "Application of the theory of differential equations with a discontinuous right side to nonlinear problems of automatic regulation".
 GAVRILOV, M. A. - "Structural surplus and operational reliability of relay devices".
 GAZALE, M. S. G. B., KAMZELAN, V. M., KOTIKOV, M. P., MEDVAL, L. R., GORODKOV, G. A. - "Power regulation of disturbances and problems of the stability of electric power systems".
 GIZDROV, S. A. - "Logical method of synthesis of functional converters".
 ILIIN, V. A. - "Methods of transmission of information and the structure of telemechanical systems for dispersed structures".
 IMBOY, V. L. and LIPSEY (Im) - "The code-impulse system of tele-measurement for dispatched operations of transmission pipe lines".
 IVANKOVICH, A. G. - "Concerning the application of the theory of combined regulation systems for cybernetic adaptation".
 IVANKOVICH, A. G. and KUMAROVICH, G. A. - "A quasi-equilibrated bridge as an element in a system of automatic control".
 KAZANOVICH, V. V. - "Concerning the process of extra regulation of inert objects in the presence of disturbances".
 KIZANOV, I. N. - "Some problems of the theory of statistical linearization and its applications".
 KILIN, P. M. - "Some problems of the theory of impulse systems with nonlinear sectors".
 KIRILSKI, A. N., BOLKOVITZ, S. V., VOZNECHENKO, L. M., IOFFE, D. M., KULAS, E. P., POPOV, B. P., SHAYTSKIY, Ye. L., SISHIN, A. Ia., and YAKOVLEV, Ye. S. - "The problem of bioelectric control and their field of use".
 KOLMOGOROV, S. P. - "New types of photo resistances and systems of automatic control and regulation of blast distribution in the systems of blast furnaces".
 KONDROVICH, B. L. - "Investigation of the dynamics of the hydraulic dust of a copying table".
 KOSOVICH, A. A. - "Dynamics of continuous systems of automatic regulation with extra self-adjustment of corrective devices".
 KOSOVICH, N. N. - "Concerning the selection of parameters of optimum stability".
 KUDRYAVTSEV, A. G. - "The dynamics of devices imitating living organisms".
 KURBANOV, A. G. - "The dynamics of devices imitating living organisms".
 LARSEN, D. - "Automatic calculating devices as a means of insuring the reliability of complex automation systems".
 LAZAROV, V. G. and KIRKOROV, P. P. - "Mechanization of processes of analysis and synthesis of the structure of relay devices".

SIRYY, N. S., GERISENBERG, G. R., KASHELYAN, V. E., and KOSTENKO, M. P.

"Intense Field Control and New Stability Problems, of Electric Power Systems."

paper presented at the International Federation of Automatic Control Congress,
Moscow, 25 Jun - 5 Jul 60.

GLEBOV, I.A.; KASHELYAN, V.Ye.; SIPYY, N.S.

Increase in the dynamic stability of long-distance electric transmission by electric braking of synchronous generators. Sbor.rab. po vop.elektronekh. no.3:15-35 '60. (MIRA 13:8)
(Electric generators)
(Electric power distribution)

GLEBOV, I.A. (Leningrad); KASHTELYAN, V.Ye. (Leningrad); SIRYY, N.S.
(Leningrad)

Effect of hydrogenerator parameters on the stability of long-
distance electric transmission. Izv. AN SSSR. Otd. tekhn. nauk.
Energ. i avtom. no. 5:3-14 S-0 '60. (MIRA 13:11)
(Hydroelectric power stations) (Electric power transmission)

GERTSENBERG, G.R.; GLINTERNIK, S.R.; KASHELYAN, V.Te.; KICHAYEV, V.V.;
NOVITSKIY, V.G.; SIRYY, N.S.

Study of the parallel operation of electric current generators
feeding two electric power systems via a.c. and d.c. power
transmission lines. Sbor. rab. po vop. elektromekh. no.6:17-36
'61. (MIRA 14:9)

(Electric power distribution) (Electric generators)

KASHTELIAN, V.Ye.; SIRYY, N.S.

Study of the mutual vibrations of synchronous generators in parallel
operation. Sbor. rab. po vop. elektromekh. no.6:69-84 '61.
(MIRA 14:9)

(Electric generators) (Electric power distribution)

BOBROV, V.M., inzh.; GLEBOV, I.A., kand.tekhn.nauk; KASHTEL'YAN, V.Ye.,
inzh.; SIRYY, N.S., inzh.; GERTSENBERG, G.R., kand.tekhn.nauk

Effect of excitation systems on the stability of the parallel
operation of large turbogenerators. Elektrichestvo no.7:7-13
Jl '61. (MIRA 14:9)

1. Institut elektromekhaniki AN SSSR (for Bobrov, Glebov,
Kashtelyan, Siryy). 2. Vsesoyuznyy elektrotekhnicheskiy
institut (for Gertsenberg).
(Turbogenerators)

KOSTENKO, M.P., akademik; NEYMAN, L.R.; GLINTERNIK, S.R., kand.tekhn.
nauk; KASHTELYAN, V.Ye., inzh.; NOVITSKIY, V.G., inzh.; SIRYY,
N.S., inzh.; GERTSENEBERG, G.R., kand.tekhn.nauk

Automatic control and stability during parallel operation of
the generators of an electric power plant feeding a.c. and d.c.
power transmission lines. Elektrichestvo no.10:1-9 0 '62.
(MIRA 15:12)

1. Institut elektromekhaniki AN SSSR (for Kostenko, Neyman,
Glinternik, Kashtelyan, Novitskiy, Siryy). 2. Vsesoyuznyy
elektrotekhnicheskiy institut (for Gertsenberg). 3. Chlen-
korrespondent AN SSSR (for Neyman).
(Electric power distribution)

SIRYY, N.S.

Regulation of the excitation of synchronous generators with
consideration of frequency. Sbor.rab.po vop.elektromekh.no.8:108-117
'63.

(MIRA 16:5)

(Electric generators)

(Electric power distribution)

SIRYY, N.S.; OSTROUMOV, E.Ye.; SNITKO, L.P.

Effect of T_e and T_{do} time constants on the dynamic stability of an electric power transmission system. Sbor.rab.po vop.elektromekh.no. 8:161-167 '63.

(MIRA 16:5)

(Electric power distribution)

KASHTELYAN, V.Ye.; SIRYY, N.S.

Study of the parallel operation of long-distance power transmission lines with a common receiving system. Sbor. rab. po vop. elektromekh. no.10:137-145 '63. (MIRA 17:8)

SIRYY, N.S.

Joint regulation of excitation with consideration of frequency
and angle of the synchronous generator. Spoz. rab. po vop.
elektromekh. no. 10.145-152 '63. (MIRA 17:8)

L 60209-65 EWT(d)/EPF(n)-2/EWP(v)/EWP(k)/EWP(h)/EWP(l) Po-4/Pq-4/Pf-4/Pg-4/
Pae-2/Pu-4/Pk-4/Pl-4 IJP(c) WW/GS/BC
ACCESSION NR: AT5013560 UR/0000/64/000/000/0115/0120

AUTHOR: Diduk, G. A.; Yesipov, V. M.; Siryy, N. S.; Filatova, E. P.

TITLE: Plotting stability regions of automatic-control systems by digital computers

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatika, telemekhanika i priborostroyeniye (Automatic control, remote control, and instrument manufacture). Moscow, Izd-vo Nauka, 1964, 115-120

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory, digital computer, power system stability

ABSTRACT: The results are reported of an investigation of the stability of an excitation-control system which controls the operation of synchronous generators feeding, via a transmission system, into infinite-power buses (Volga Hydro-electric Station to Moscow). After a linearization, the control system was describable by 7th order differential equations. The stability regions of the frequency-control factor K_f^0 and its first derivative K_f^1 were plotted in a two-

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parameter plane. The plotting was performed by the V. I. Zubov method (see Abstract AT5013559) and was verified by direct computation of all roots of the characteristic equation. Four stability regions corresponding to various stability degrees (0, 0.25, 0.5, 0.75) were plotted. The stability-region boundaries were determined by dissecting the plane of $K_f^0 - K_f^1$ factors with the straight lines parallel to the x-axis. The plots show that, for increased stability degrees, the regions contract irregularly; a comparison of the plots for transmission angles of 66° and 105° shows that the stability regions become essentially narrower with increasing transmitted power; these factors are important for selecting the voltage-regulator settings. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 24Oct64

ENCL: 00

SUB CODE: IE, DP

NO REF SOV: 005

OTHER: 000

Card *fr*
2/2

ARAKCHEYEV, A.A.; BEREZIN, S.P.; BELYAVSKIY, V.A.; KOLOTILOV, A.N.;
MOLOKANOV, S.I.; NEKRASOV, A.M.; LAVRENEKO, K.D.; POLENTSEV, M.K.;
ROZHDESTVENSKIY, A.P.; SATANOVSKIY, A.Ye.; SIRYY, P.O.; SPIRIDONOV,
K.A.; CHERNYSHEV, P.S.; SHUBENKO-SHUBIN, L.A.

Savva Mikhailovich Zherbin; obituary. Elek, sta. 30 no.2:96 F
'59. (MIRA 12:3)

(Zherbin, Savva Mikhailovich, 1903-1958)

7/1/58
to file
YATSENKO, Valentin Semenovich; SIRYY, Yu. Yu., red.; SERKO, G.S., red. izd-va;
LAVRENOVA, N.B., tekhn. red.

[Design of marine shafting and ways of improving it] Konstruktsiia
sudovykh valoprovodov i puti ee uluchsheniia. Moskva, Izd-vo
"Morskoi transport," 1958. 38 p. (MIRA 11:7)
(Shafting) (Marine engines)

SUSHKOV, B.B., inzh.; SIRYY, Yu.Yu., inzh.

Train ferry to be used on the Caspian Sea. Zhel. dor. transp. 41
no.4:56-57 Ap '59. (MIRA 12:6)
(Caspian Sea--Train ferries)

SIRYY, Yu Yu

PHASE I BOOK EXPLOITATION

SOV/4931

Kostyamin, Boris Nikolayevich, Il'ya Il'ich Kichkin,
Yuriy Yur'yevich Siryy, and Boris Borisovich Sushkov.

Primeneniye ul'trazvuka na morskoy transporte (Use of Ultrasound
in Marine Transportation) Moscow, Izd-vo "Morskoy transport,"
1960. 60 p. 3,200 copies printed.

Ed.: V. Ye. Kazakevich; Ed. of Publishing House: Z. D. Ivanova;
Tech. Ed.: B. A. Sarayev.

PURPOSE: This booklet is intended for those interested in the
application of ultrasonics to the metallurgical and mechanical
engineering aspects of shipbuilding.

COVERAGE: The booklet presents the fundamentals of the theory of
ultrasonics and the use of ultrasonics in shipbuilding and
marine maintenance. No personalities are mentioned. There are
21 references: 19 Soviet, and 2 English.

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SIRZEMSKI, S.

SIRZEMSKI, S.

3497

051.445.1:051.870.1/5

Sirzemski S. "Black Soil" as an Indication of Land Drainage.

"Czarne ziemie", jako wskaźnik odwodnienia kraju", Gospodarka Wodna, No. 2, 1954, pp. 40-47.

POL. 2

Differentiation between humus proper and "black soil" of marshy origin. The author, referring to the process involved in the formation of "black soil", emphasises the fact that the area of such soil has, in Poland, substantially increased (the Sochaczew "black soil"). This is not so much the effect of melioration works as of the increasing dryness of Poland's climate. A similar phenomenon is observed in the Brandenburg province of Germany. An unduly rapid lowering of the level of soil waters — gives rise to irregularities in the soil formation process, ultimately leading to a considerable diminution in agricultural value. It is therefore essential to concentrate efforts on the control of water conditions and the re-establishment of hydrological equilibrium.

BARGLAZAN, A. [deceased]; SISAK, E.; POPA, O.

Plane network of MHT 8406 thin profiles. Pt.1. Studii tehn
Timisoara 7 no.3/4:179-185 J1-D '60.

1. Membru corespondent al Academiei R.P.R. (for Barglazan).

BARGLAZAN, A. [deceased]; PREDĂ, I.; SISAK, E.; BUDISAN, N.

Automatic hydroelectric apparatus for the microhydroelectric-
power plant of Negoiu. Studii tehn Timisoara 8 no.3/4:195-209
J1-D '61.