Synthesis of the Acetic Ester of Di-(Oxyclyclo-hexyl)-Butadiene-1,3 and Its Catalytic Hydration 79-28-4-16/60

hydrogen molecules, at a simultaneous formation of hydrocarbon. The 1,4-di (cyclohexyl)-butane, the 1-oxycyclohexyl-4-cyclohexyl-butane acetate and the 1,4-di-(oxycyclohexyl) butane diacetate were separated. Negligible amounts of the initial diacetylene ester and of acetic acid were also separated. Or the whole, two parallel experiments were conducted, showing analogous results. There are 1 table and 1 reference, 1 of which is Soviet.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: June 17, 1957

Card 2/2

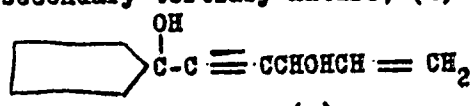
5(3) SOV/79-29-4-42/77

AUTHORS: Nogaydeli, A. I., Dzagnidze, K. Ya, Pagava, T., Kverenchkhiladze

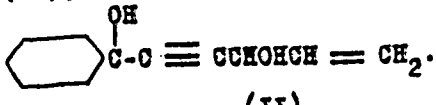
TITLE: Investigation of Mixed Ethylene-acetylene-γ-glycols (Issledovaniye smeshannykh etilenatsetilenovykh-γ-glikoley). Synthesis and Catalytic Hydrogenation of 5-(1-Oxycyclopentyl)-penten-1-in-4-ol-3 and 5-(1-Oxycyclohexyl)-penten-1-in-4-ol-3 (Sintez i kataliticheskoye gidrirovaniye 5-(1-oksitsiklopentil)-penten-1-in-4-ola-3 i 5-(1-oksitsiklogeksil)-penten-1-in-4-ola-3)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1231-1233 (USSR)

ABSTRACT: In continuation of their previous work (Ref 1) the authors investigated the reaction of acrolein with cyclopentanol- and cyclohexanol-magnesium-bromo-acetylenes as well as the nature of the catalytic hydrogenation of the eninglycols obtained. Normal reaction products, namely, the ethylene-acetyl glycols of secondary-tertiary nature, (I) and (II), were obtained (50% yield).



(I)



(II)

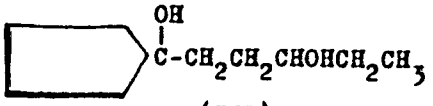
The eninglycols mentioned are hydrogenated in the presence of

Card 1/3

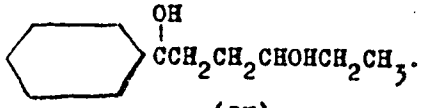
Investigation of Mixed Ethylene-acetylene-γ-glycols. Synthesis and Catalytic Hydrogenation of 5-(1-Oxycyclopentyl)-penten-1-in-4-ol-3 and 5-(1-Oxycyclohexyl)-penten-1-in-4-ol-3

platinum black without a break in the reaction rate, each of them affiliating 6 hydrogen atoms while the corresponding saturated γ-glycols are formed. The hydrogenation, however, takes place much faster in the presence of colloidal palladium, the eninglycols intensely affiliating 4 hydrogen atoms, whereupon the reaction rate drops sharply and the remaining two hydrogen atoms are absorbed much more slowly, which is confirmed by a comparison with the time required for the affiliation of hydrogen in the case of (I) and (II). For instance, the nature of hydrogenation of eninglycols with cyclic radicals is similar to that of eninglycols with open chains, even though the weighting of the radical retards the hydrogenation reaction as soon as the 4 hydrogen atoms have been affiliated. The products of the complete hydrogenation with the catalysts mentioned above are compounds (III) and (IV):

Investigation of Mixed Ethylene-acetylene-γ-glycols. Synthesis and Catalytic Hydrogenation of 5-(1-Oxycyclopentyl)-penten-1-in-4-ol-3 and 5-(1-Oxycyclohexyl)-penten-1-in-4-ol-3



(III)



(IV)

There are 2 tables and 1 Soviet reference.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: March 25, 1958

Card 3/3

5 (3)
AUTHORS: Kogaydeli, A. I., Mishkhadze, Sh. V. SOV/79-29-5-36/75

TITLE: Synthesis and Catalytic Hydrogenation of 2-Methyl-5-phenyl Heptyne-3-diol-2,5 (Sintez i kataliticheskoye gidrirovaniye 2-metil-5-fenilgeptin-3-diola-2,5)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1574-1576 (USSR)

ABSTRACT: In the present paper the hydrogenation of acetylene-γ-glycols in the presence of palladium on calcium carbonate is described. The selective effect of palladium on calcium carbonate in the hydrogenation of monosubstituted acetylene carbinols is known from publications (Ref ?). By use of this catalyst, however, vinyl ethinyl carbinols yielded a mixture of the initial product, the diene carbinol, and two isomeric olefin carbinols (Ref ?). Therefore the effect of this catalyst on acetylene-γ-glycols was investigated more thoroughly. The compound mentioned in the title was obtained from ethyl-phenyl ketone and magnesium-bromo-dimethyl-acetylenyl-carbinol. By means of the catalyst mentioned the hydrogenation was found to take place up to the ethylene derivative. The reaction proceeds more slowly than with

Card 1/2

Synthesis and Catalytic Hydrogenation of 2-Methyl-5-phenyl Heptyne-3-diol-2,5 SOV/79-29-5-33/75

tetramethyl-butine-diol. The selective nature of palladium applied to calcium carbonate was thus confirmed for acetylene-γ-glycols. The resultant 2-methyl-5-phenyl heptene-3-diol-2,5 is described for the first time by the authors. The experimental part describes the synthesis of the initial compound and its hydrogenation as well as the analysis and physical data of the compounds. There are 3 Soviet references.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: March 29, 1958

Card 2/2

NOGAYDELI, A.I.; GONADZE, G.M.

Synthesis of 3, 8-dimethyl-4, 6-decadiyne-3, 8-diol acetate and di(1-hydroxycyclopentyl)-1, 3-butadiyne acetate and their catalytic hydrogenation. Zhur.ob.khim. 31 no.6:1838-1843 Je '61. (MIRA 14:6)

1. Tbilisskiy gosudarstvennyy universitet.
(Acetic acid) (Hydrogenation)

NOGAYDELI, A.I.; VARDOSANIDZE, TS.N.

Synthesis and catalytic hydrogenation of 5-(1-hydroxycyclohexyl)-4,3-dimethyl-4-heptyn-3-ol and its acetates. Zhur.ob.khim. 33 no.2:379-381 F '63. (MIRA 16:2)

1. Tbilisskiy gosudarstvennyy universitet.
(Heptynol) (Cyclohexyl group) (Hydrogenation)

NOGAYDELI, A.I.; SKHIRTLADZE, N.N.

Alkylation of benzene by diethyl ether in the presence of aluminum chloride. Zhur. ob. khim. 33 no.5:1414-1415 My '63. (MIRA 16:6)

1. Institut khimii imeni P.G. Melikishvili AN Gruzinskoy SSR.
(Benzene) (Alkylation) (Ethyl ether)

ANDRIANOV, K.A.; PICHKHADZE, Sh.V.; NOGAYDELI, A.I.; VARDOSANIDZE, TS.N.

Poly-bis-(8-hydroxyquinoline)-titanomethylphenylsiloxanes.
Soob. AN Gruz. SSR 33 no.3:557-564 Mr '64 (MIRA 17:8)

1. Institut khimii imeni P.G. Melikishvili AN GruzSSR i Institut elementoorganicheskikh soyedineniy AN SSSR. Predstavleno akademikom G.V. TSitsishvili. 2. Chlen-korrespondent AN SSSR (for Andrianov).

NOGAYDELI, A. I.; RTVELIASHVILI, N. A.

α-Glycols of the vinylacetylene series. Part I: Synthesis, hydrogenation and acetylenation of 3, 4-dimethyl-5-octyn-7-ene-3, 4-diol. Zhur. ob Khim. 34 no.6:1737-1741 Je '64. (MIRA 17:7)

1. Tbilisskiy gosudarstvennyy universitet.

NOGAYDELI, A.I.; SKHIRTLADZE, N.N.

Synthesis of some derivatives of anthracene by means of organolithium compounds. Soob. AN Gruz. SSR 29 no.2:151-158 Ag '62. (MIRA 18:3)

1. Institut khimii imeni Melikishvili AN GruzSSR, Tbilisi.
Submitted February 12, 1961.

NOGAIDELI, A.I.; SKHIRTLADZE, N.N.; BAGRATSHVILI, G.D.; ONIASHVILI, N.I.

Preparation and spectra of 3,4,7,8,11,12-hexahydrotriphenylene. Zhur. ob. khim. 33 no.5:1517-1520 My '63. (MIRA 16:6)

1. Institut khimii AN Gruzinskoy SSR.

L 1128-66 EWT(m)/EPF(c)/EWP(j) RPL WW/RM

ACCESSION NR: AP5022931 UR/0062/65/000/008/1396/1402
546.287

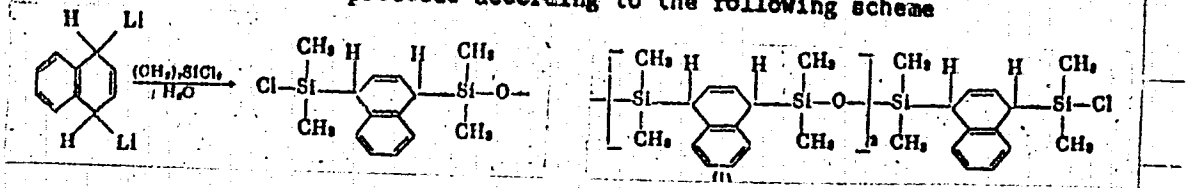
AUTHOR: Tkeshelashvili, R. Sh.; Andrianov, K. A.; Nogaydeli, A. I.

TITLE: Reaction of dimethyl- and phenylmethyldichlorosilanes with 1,4-dilithium--1,4-dihydronaphthalene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1965, 1396-1402

TOPIC TAGS: dimethyldichlorosilane, condensation reaction

ABSTRACT: The reaction of dimethyl- and phenylmethylchlorosilanes with dilithium derivatives of naphthane was studied to determine its usefulness in the synthesis of oligomers. The condensation reaction of 1,4-dilithium-1,4-dihydronaphthalene with dimethylchlorosilane proceeds according to the following scheme

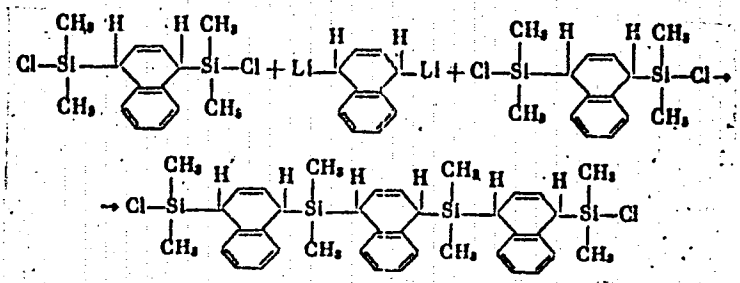


Card 1/3

L 1128-66

ACCESSION NR: AP5022931

The reaction product is a tetramer with a boiling temperature of 218-220°C (at 1 mm Hg). In the absence of moisture this reaction proceeds according to



This scheme was followed also in the case of condensation with phenylmethyldichlorosilane. In this case the products were: a dimer boiling at 200-205°C (1 mm Hg) and a tetramer boiling at 245-250°C (1 mm Hg). Boiling temperatures at reduced pressure, refractive indices, and molecular weights (elemental analysis) were determined for all reaction products. In order to confirm the structure, the reaction products were hydrolyzed to the corresponding dihydroxy-derivatives with various degrees of

Card 2/3

L 1128-66

ACCESSION NR: AP5022931

polymerization and transformed into other derivatives. Orig. art. has: 2 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds, Academy of Sciences, SSSR)

SUBMITTED: 09Jul64 ENCL: 00 SUB CODE: GC, OC

NO REF SOV: 001 OTHER: 000

Card 3/3

L 18726-66 EWT(m)/EWP(j) DS/RM

ACC NR: AP6005090 (A) SOURCE CODE: UR/0251/65/040/003/0607/0612

AUTHOR: Nogaydeli, A. I.; Dzhaparidze, K. G.; Brodzeli, M. I.; Devadze, L. V.; Maysuradze, D. P.; Kertsman, E. L.; Chuhabriya, M. Ya.

ORG: none

TITLE: Synthesis and certain photochemical properties of 7-nitro-1', 3', 3'-trimethyl-spiro-naphthopyran- 2,2'-indoline

SOURCE: AN GruzSSR. Soobshcheniya, v. 40, no. 3, 1965, 607-612

TOPIC TAGS: photoeffect, spiropyran compound, UV irradiation, spectrophotometry, cryogenic effect / 7-nitro-1', 3', 3'-trimethyl-spiro-naphthopyran- 2,2'-indoline

ABSTRACT: On the assumption that the change in color on heating of 1', 2', 3'-trimethyl-indoline-β-naphthopyrilo-spiran, a substance synthesized by Wizinger and Wenning in 1940 (Helv. Chem. Acta, v. 23, 1940, 247) is associated with the splitting of the pyran cycle and hence also with a change in internal configuration and redistribution of bonds in the molecule, and in view of the importance of this problem, the authors synthesized yet another representative of nonsymmetric spiropyrans, namely, 7-nitro-1', 3', 3'-trimethyl-spiro-naphthopyran- 2,2'-indoline (yellowish acicular crystals) through condensation of 8 g of Fisher's base with 8 g of 6-nitro-2-oxy-β-naphthaldehyde (Fig. 1) by heating to 60°C for 1 hr, thus obtaining a thermo-

Card 1/3

L 18726-66

ACC NR: AP6005090

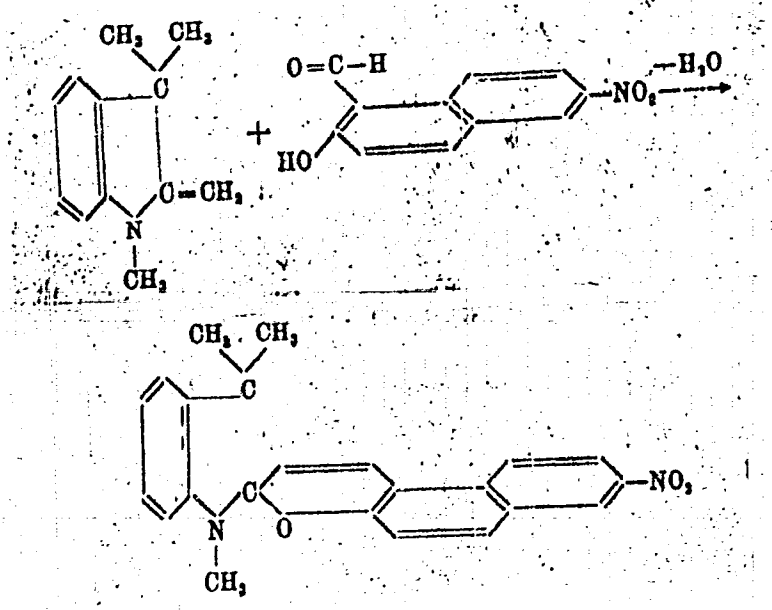


Fig. 1.

Card 2/3

L 18726-66
ACC NR: AP6005090 O

chromic compound which, in a ligroin solution, is colorless at room temperature but acquires a purple color when heated to 100-150°C. The photochromic properties of this new spironpyran were investigated in a specially designed cryostat (attachment to an SF-10 spectrophotometer). The investigation was performed in liquid (paraffin oil and a mixture of ethanol and methanol in the mutual ratio of 4:1) and solid (polystyrene-ethyl cellulose) solutions. Findings: ultraviolet irradiation at room temperature does not change the color of solution. A reduction in temperature to -10°C in the liquid solution, however, along with a subsequent brief irradiation with λ = 366 mμ causes the solution to acquire a purple color. A peak in the 580 mμ region appears in the absorption spectrum. The process is reversible with time. At still lower temperatures (-90 to -100°C), on the other hand, the process becomes irreversible so long as these temperatures apply. Increasing the temperature instantaneously restores the original pale-yellow color. Orig. art. has: 5 figures, 2 formulas.

SUB CODE: 03, 07, 20/ SUBM DATE: 06Jul65/ ORIG REF: 000/ OTH REF: 007

Card 3/3 SMV

L 41226-66 EWT(m)/T/EWP(j) IJP(c) RM

ACC NR: AP6023432 SOURCE CODE: UR/0190/66/008/007/1252/1256

AUTHOR: Andrianov, K. A.; Vardosanidze, Ts. N.; Nogaydeli, A. I.; Yakushkina, S. Ye.

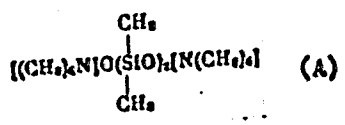
ORG: Institute of Hetero-organic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR) 54 B

TITLE: Polymerization of methylphenylcyclosiloxanes

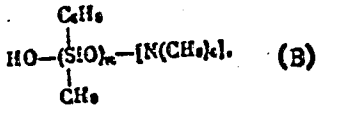
SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 7, 1966, 1252-1256

TOPIC TAGS: siloxane, organosilicon compound, polymerization catalyst, catalytic polymerization

ABSTRACT: In a study of the polymerization of organocyclosiloxanes in reactions of anionic polymerization, the polymerization of tetramethyltetraphenylcyclotetrasiloxane (I) and trimethyltriphenylcyclotrisiloxane (II) in the presence of various catalytic systems was investigated. Special catalysts having the formulas



(A)



(B)

where n = 8, 11, 15, were synthesized. In the presence of (A), the polymerization of

UDC: 66.095.264:678.84

Card 1/2

KUDRYAVTSEVA, E.P.; ZHUKOVETS, M.S.; ARUTYUNOV, I.S.; KOGAIKH, B.N.; SPITSYN, V.V.; RYAKINA, M.A.; NEKHAIEVA, G.G.; IKAIEV, N.V.; AVRAMENKO, L.M.; TSOGOIEV, T.Kh., otv.red.; BAZHAEOV, P.S., tekhn.red.

[Economy of the North Ossetian A.S.S.R.; statistics] Narodnoe khoziaistvo Severo-Osetinskoi ASSR; statisticheskii sbornik. Ordzhonikidze, 1958. 130 p. (MIRA 12:10)

1. North Ossetian A.S.S.R. Statisticheskoye upravleniye.
2. Nachal'nik Statisticheskogo upravleniya Severo-Osetinskoy ASSR (for TSogoyev).
(Ossetia--Statistics)

PA 18T13

NOMAYEV, V. A.

USSR/Petroleum Industry Aug 1947
Water - Purification

"Work of the Water-purifying Station for Flooding at the Artemneft Combine," V. A. Nogayev and K. K. Asaman, 3 pp

"Neftyanoye Khozyaystvo" Vol XXV, No 8

Discusses the purifying station operation at Artemneft Trust to clean and sterilize the water of the Caspian Sea before it is pumped into oil wells to float up the oil. Explains process of purification and sterilization and gives diagram of filtration plant.

18T13

BELEN'KIY, Aleksandr Davydovich; NUSHTAYEV, Vladimir Vasil'yevich; NOGAYEV, Vasiliy Mikhaylovich; VOROB'YEV, I.Ye., inzh., retsenzent; KISELEVA, N.P., inzh., red.; USENKO, L.A., tekhn. red.

[Performance of diesel locomotives on lengthened haul distances; experience of the Ashkhabad Railroad] Rabota teplovozov na udlinennykh uchastkakh obrashcheniia; opyt Ashkhabadskoi dorogi. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei sobshcheniia, 1961. 78 p. (MIRA 14:12)

(Diesel locomotives—Performance)

GINZBURG, L.B.; NOGAYEVA, Z.M.; YUSTUS, Z.L.

Photocolorimetric determination of thallium and germanium in the products of nonferrous metallurgy. Sbor. nauch. trud. Gintsvetmeta no.18:11-17 '61. (MIRA 16:7)

(Nonferrous metals—Analysis)
(Thallium—Analysis)
(Germanium—Analysis)

NOGAYTSEV, I., glavnyy zootekhnik;POKHIL'KO, G., tekhnik

Self-feeder and maintaining swine unconfined by pens. Nauka i pered. op v sel'khoz 9 no.10:24-26 O '59 (MIRA 13:3)

1. Sovkhoz "Kubanets", Timashevskogo rayona, Krasnodarskogo kraya.
(Swine houses and equipment)

NOGEA, V.

Socialist competition among the Brasov region enterprises.
Munca sindic 7 no.8:13-17 Ag '63.

1. Presedintele Consiliului regional al sindicatelor Brasov.

MESHCHERYAKOV, G.V.; NOSHCHENKOV, D.Yu.

Contraction of plugging cement in contact with highly mineralized formation waters. Trudy Inst. nefti AN Kazakh.SSR 4:187-189 '61.
(MIRA 16:4)

(Oil well cementing)

GAFAROVA, N.A.; DZHANAKHMETOVA, Zh.K.; NOGERBEKOV, B.Yu.;
BEN'KOVSKIY, V.G.

Surface-active substances from the petroleum products of the Gur'ev Petroleum Refinery. Khim. i tekh. topl. i masel 8 no.6: 30-33 Je '63. (MIRA 16:6)

1. Institut khimii nefti AN KazSSR.
(Gur'ev(Gur'ev Province)--Petroleum refineries)
(Surface-active agents)

Solidity of the vessels engaging in Arctic Navigation,
Novosti Tekhniki (Technology News).
Issues Nos. 56-57, 1934.

NOGID, L.M.

Problems of the modern Soviet icebreaker construction, Sudostroenie (Ship Construction). Issue No. 6, Gosstroyizdat (National Construction Publishing House), 1934

NOGID, L.M., professor.

Ship rolling on stormy seas; from data obtained by investigating the rolling of the steamer "Meteor" in 1913). Trudy VNITOSS 6 no. 1:77-89 '53. (MLRA 9:11)

(Stability of ships) (Meteor (Steamer))

KOGAN, Lev Markovich; BRONNIKOV, A.V., redaktor; ALEKSEYEVA, M.N., redaktor; KONTOROVICH, A.I., tekhnicheskiy redaktor.

[Theory of ship design] Teoriia proektirovaniia sudov. Leningrad. Gos.soiuznoe izd-vo sudostroitel'noi promyshl., 1955. 479 p. (Naval architecture) (MLRA 9:5)

NOGID, L.M.

Generalized differential equation of weight and incremental displacement coefficient. Trudy LKI no.16:116-121 '55.
(MIRA 13:4)

1. Kafedra proyektirovaniya sudov Leningradskogo korablestroitel'nogo instituta.
(Displacement (Ships))

NOGID, L.M., doktor tekhnicheskikh nauk.

Some particularities in the design of fishing vessels. Sudostroenie 22 no.4:1-10 Ap '56. (MLRA 9:9)
(Shipbuilding) (Fishing boats)

NOGID, L.M., doktor tekhnicheskikh nauk.

Frame lines of transport vessels. Sudostroenie 22 no.12:36-42 D '56.
(United States--Ships) (MLRA 10:2)
(Ship models--Testing)

10(4); 31(4,5) PHASE I BOOK EXPLOITATION SOV/3045

Nogid, Lev Markovich

Teoriі podobiya i razmernostey (Theory of Similitude and of Dimensional Analysis) Leningrad, Sudpromgiz, 1959. 95 p. 3,500 copies printed.

Scientific Ed.: M.F. Fedosov; Ed.: A.I. Kuskova; Tech. Ed.: P.S. Frumkin.

PURPOSE: This book is intended for students at shipbuilding vuzes. It may also be useful to a large number of scientists engaged in experimental work or concerned with methods of similitude and dimensional analysis in theoretical investigations.

COVERAGE: The book treats the fundamentals of the theories of similitude and dimensional analysis, illustrated by examples from the field of hydrodynamics, ship theory, and strength theory. The author thanks Ya.I. Voytkunskiy, K.K. Fedyayevskiy, and A.A. Kurdyumov. There are 18 references: 15 Soviet, 2 English, and 2 German.

Card 1/4

NOGID, L.M.

Ice impact on a ship. Trudy LKI no.26:123-135 '59. (MIRA 14:9)

1. Kafedra proyektirovaniya sudov Leningradskogo korablestroitel'nogo instituta.

(Ice on rivers, lakes, etc.) (Ships)

NOGID, L.M.

Modeling ship propulsion in an unbroken ice field and in broken ice. Trudy LKI no.28:45-62 '59. (MIRA 15:5)

1. Kafedra proyektirovaniya sudov Leningradskogo korablestroitel'nogo instituta.
(Ice on rivers, lakes, etc.) (Ship propulsion--Models)

NOGID, L.M.

Resistance to icebreaker motions in broken ice, according to model testing data in 1949-1951. Trudy LKI no.29:83-89 '59.
(MIRA 14:7)

1. Leningradskiy korablestroitel'nyy institut, kafedra proyektirovaniya sudov.
(Ice-breaking vessel -Models)

NOGID, L.M., doktor tekhn.nauk

Indices of technical characteristics of a ship. Sudostroenie 26 no.9:13-14 S'60. (MIRA 13:10)
(Ships)

NOGID, Lev Markovich; GIRS, I.V., kand.tekhn.nauk, retsenzent; SHPAKOV, V.S., kand.tekhn.nauk, retsenzent; DORIN, V.S., nauchnyy red.; SHAKHNOVA, V.M., red.; SHISHKOVA, L.M., tekhn. red.

[Planning the shape of a ship and preparing preliminary drawings]Proektirovanie formy sudna i postroenie teoreticheskogo chertezha. Leningrad, Sudpromgiz, 1962. 242 p. (MIRA 15:8)

(Hulls (Naval architecture))

NOGID, L.M., doktor tekhn.nauk; DUBROVIN, O.V., inzh.

Frictional resistance of icebreakers. Frictional resistance of icebreakers. Sudostroenie 28 no.6:10-14 Je '62. (MIRA 15:6)

(Frictional resistance (Hydrodynamics))
(Ice-breaking vessels)

NOGID, L.M., doktor tekhn.nauk

The most advantageous coefficients of displacement and the operational speed of a ship. Sudostroenie 29 no.2:5-11 F '63. (MIRA 16:2)

(Displacement (Ships)) (Ships—Speed)

NOGID, L.M., doktor tekhn.nauk

Making use of the variational method. Sudostroenie 29 no.6: 8-11 Je '63. (MIRA 16:7)
(Naval architecture--Tables, calculations, etc.)

NOGID, Lev Markovich; POPOV, G.I., kand. tekhn. nauk, retsenzent; BRONNIKOV, A.V., red.; SHAKHNOVA, V.M., red.

[Design of seagoing ships] Proektirovanie morskikh sudov. Leningrad, Izd-vo "Sudostroenie." Pt.1.[Methods of determining the elements of a proposed ship] Metodika opredeleniia elementov proektiruemogo sudna. 1964. 358 p. (MIRA 17:5)

NOGID, L.M., doktor tekhn. nauk

Justifying the propulsive speed and the structural elements of a proposed vessel. Sudostroenie 30 no.5:18-20 My '64. (MIRA 17:6)

NOGIEC, Jerzy

By express through the diabase. Przegl techn 84 no.30:5
28 Jl '63.

NOGIEC, Jerzy

New roofing material. Przegl techn 84 no.33:6 18 Ag '63.

NOGIN, M.V., inzh.; SHMYREVA, L.M., inzh.

Spot welding of hot-rolled metal without preliminary cleaning.
Svar. proizv. no.3:15-17 Mr '65. (MIRA 18:5)

1. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya.

ALEKHIN, N.I.; NOGIN, M.V.; FEDOROV, I.V.; SHMYREVA, L.M.

Welding hot-rolled metals without cleaning the place under welding. Trakt. i sel'khozmash. no.3:37-39 Mr '65. (MIRA 18:5)

1. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya.

NOGIN, M.V., inzh.

Automation and mechanization of welding processes in tractor and agricultural machinery manufacture. Trakt. i sel'khozmash. no.9:31-32 S '64. (MIRA 17:11)

GRIGOR'YEVA, M.N., inzh.; KIPNIS, S.B., inzh.; NOGIN, M.V., inzh.

Quality of the welded constructions in agricultural machinery. Trakt. i sel'khozmash. no.11:43-45 N '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.

SOKOLOV, A.V.; NOGIN, P.A.; KHRIPIN, I.P.; IOSIF, Ye.A., kandidat tekhnicheskikh nauk, redaktor; TELESHEV, A.N., redaktor; PANKRATOVA, M.A., tekhnicheskiy redaktor.

[Cameras, optics and determination of exposure] Fotoapparaty, optika i opredelenie vyderzhki. Pod red. E.A.Iofisa. Moskva, Gos. izd-vo "Iskusstvo", no.1. 1955. 157 p. (MLRA 9:4)
(Photography--Exposure) (Cameras)

NOGIN, P.A.

Permissible speeds in the panoramic filming of motion pictures. Zhur. nauch. i prikl. fot. i kin. 2 no.5:358-363 S-O '57. (MIRA 10:11)

1. Vsesoyuznyy gosudarstvennyy institut kinematografii.
(Cinematography)

NOGIN, P.

News photography is not a genre but a method. Sov. foto 17 no.9: 4-8 S '57. (MLRA 10:9)

(Photography, Journalistic)

SOKOLOV, Aleksandr Vladimirovich; MOGIN, Pavel Alekseyevich; IOFIS, Ye.A., kand.tekhn.nauk, red.; TELESHEV, A.N., red.; MALEK, Z.N., tekhn.red.

[Photographic apparatus and optics] Fotoapparaty i optika. Izd.2., ispr. i dop. Pod red. E.A. Iofisa. Moskva, Gos. izd-vo "Iskusstvo," 1958. 158 p. (Biblioteka fotoliubitelia, no.1) (MIRA 12:1)
(Optics) (Photography--Equipment and supplies)

IL'IN, R., kand. iskustvovedeniya; NOGIN, P., kand. iskustvovedeniya

Answer to a fumbler. Sov.foto 18 no.10:35-38 O '58.
(MIRA 11:11)
(Photography--Portraits) (Konenkov, Sergei Timofeevich, 1874-)

NOGIN, Pavel Alekseyevich; IOFIS, Ye.A., kand. tekhn. nauk, red.; FOMIN, A.A., red.; SUSHKEVICH, V.I., tekhn. red.

[Photographic lenses] Fotograficheskii ob"ektiv. Pod red. E.A. Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1961. 124 p. (Biblioteka fotoliubitelia, no.22) (MIRA 15:2)
(Lenses, Photographic)

NOGIN, P.I.

Characteristics of the growth and development of sugar beets in Irkutsk Province. Agrobiologiia no. 3:449-450 My-Je '61. (MIRA 14:5)

1. Irkutskiy sel'skokhozyaystvennyy institut.
(Irkutsk Province—Sugar beets)

GUSEV, Yu. (Moskva); LOBACHEV Yu. (Kaluga); MOVCHIKOV, N. (Tambov); BERMES, N. (Baku); KUCHIS, Ye. (Vil'nyus); LAMEKIN, V. (Riga); NOGIN, S. (Sevastopol'); UL'YANENKO, N. (Murmanskaya obl.); ZEL'DIN, Ye. (Leningrad); CHIBIRYACHKO, V. (Severomorsk); SIMONOV, V. (Orel); ZHBANOV, Ye. (Ivanovo); VOTLOKHIN, B. (Groznyy); MAKASHEV, M. (Leningrad); MAMEDOV, V. (Balashov); GORDOV, V. (Yevpatoriya); LYAMETS, V. (Severodonetsk).

Exchange of experience. Radio no.3:31,37,44,51,53,54,55,56,58,61 Mr'64 (MIRA 17:7)

TERESHCHUK, Romual'd Mikhaylovich; DOMBRUGOV, Rem Matveyevich; BOSYY, Nikolay Dmitriyevich. Prinimal uchastiye NOGIN, S.I. KOVAL'CHUK, A., red.; MATUSEVICH, S., tekhn.red.

[Radio amateur's handbook] Spravochnik radioliubitelia. Izd.2., perer. i dop. Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1960. 840 p. (MIRA 14:2)
(Radio--Amateurs' manuals)

RYABUKHA, N.I., inzhener; NOGIN, S.I., inzhener.

Ultrasonic devices for testing and investigating concrete. Shakht. stroi. no.7:18-21 Jl '57. (MLRA 10:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii montazha Promshilstroy.
(Ultrasonic testing) (Concrete--Testing)

POPOVICH, G. [Popovych, H.], kand.tekhn.nauk; MOGIN, S. [MOHIN, S.], inzh.; ALTSHULER, M., inzh.

Using the ultrasonic method in testing the strength of concrete construction elements. Bud.mat.i konstr. 2 no.1: 47-52 F '60. (MIRA 13:6)
(Ultrasonic waves--Industrial applications)
(Precast concrete--Testing)

89963

S/097/60/000/011/004/007
A053/A029

241800 1160 2209 1063

AUTHOR: [redacted], Engineer

TITLE: Investigation Into Structural Disturbances of Concrete Under Load by Means of Ultrasound

PERIODICAL: Beton i zhelezobeton, 1960, No. 11, pp. 516-518

TEXT: The author refers to the method developed by R. Jones (Ref. 1) by which structural changes taking place in concrete cubes under stress were investigated by an ultrasonic impulse device, measuring the velocity of the ultrasonic impulse passing through the cube. Reference is also made to investigations by O. Berg (Ref. 2) confirming the findings of Jones. With the aid of the УЛ-3 (UP-3) ultrasonic impulse device developed by NIISK ASiS UkrSSR experiments were conducted along somewhat different lines. In addition to taking measurements along the center line section of the cube (A-A) perpendicular to the direction of uniaxial stress, measurements were also taken across the sections adjoining the top and bottom surfaces, as shown in Figure 1 (B-B). Along section A-A the impulse velocity varies constantly while the load increases, in accordance with the findings of Jones. On the

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A053/A029

Investigation Into Structural Disturbances of Concrete Under Load by Means of Ultrasound

other hand there is practically no change of impulse along sections B-B until destruction takes place, which contradicts the conclusions of Jones about the uniform character of changes in the velocity of sound in a concrete cube under uniaxial stress. These changes differ according to the zone through which they pass. With the same ultrasonic device experiments were conducted with a view to determining the change in the impulse velocity when the load is removed. The findings of these experiments permit conclusions to be drawn about the reversibility of structural defects caused by stress and the effect to be explained of a volume decrease during the first phase of load removal from samples under uniaxial stress (Ref. 4). This method opens interesting perspectives for its practical application by checking the state of structural condition of reinforced concrete constructions and the degree of fatigue in the dynamic condition. The ultrasonic impulse device has also been used for static tests of constructions observing the development of destruction, in particular by measuring the impulse velocity in the lower part of a prestressed monolithic reinforced concrete beam under

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A053/A029

Investigation Into Structural Disturbances of Concrete Under Load by Means of Ultrasound

load in the extended zone of pure bending. As the load increases the velocity of the passing impulse decreases until 3 microseconds, when microfissures begin to develop. The author describes an ultrasonic ПИК-5А (PIK-5A) impulse device (Ref. 5) developed by NIIZhelezobeton, which enabled A. Nadareyshvili (Ref. 6) to conclude that in the extended zones of bending of reinforced concrete beams the velocity of ultrasonic impulse decreases by 70 - 100 % under a load which coincides with the beginning of crack formations; any consecutive slight increase of load decreases the impulse velocity by hundreds of percents. Another type of device, the "Betonoskop" (Ref. 7), enabled A. Savchuk and P. Filipchinski to determine the beginning of change in the impulse velocity at loads corresponding to 50 - 70 % of the breaking strength. It should be remembered that the initial elastic and plastic deformations do not cause any changes in the sound velocity; these appear only in the case of structural interferences or compression of material. There is 1 diagram, 3 graphs, 1 table and 7 Soviet references.

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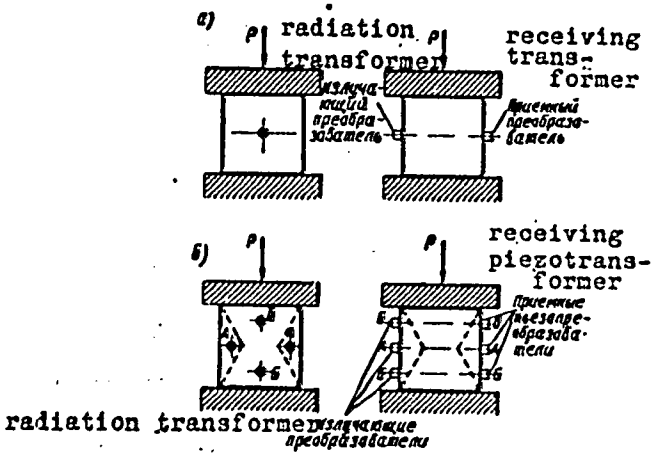
Investigation Into Structural Disturbances of Concrete Under Load by Means of Ultrasound

Figure 1:

Ultrasonic measurements taken on concrete cubes under static load.
a - method of P. Jones
b - method of the author



Card 4/4

BOROVSKIY, N.V., inzh.; NOGIN, S.I., inzh.

Study of processes of crack formation in mesh-reinforced concrete. (MIRA 14:10)
Bet. i zhel.-bet. no.9:398-401 S '61.
(Precast concrete--Testing)

ACC NR: AP6011254 (A) SOURCE CODE: UR/0413/66/000/006/0094/0095

AUTHOR: Nogin, S. I.

ORG: none

TITLE: A method for determining the structure of a concrete body. Class 42, No. 179980

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 94-95

TOPIC TAGS: concrete, flaw detection, ultrasonic vibration

ABSTRACT: This Author Certificate presents a method for determining the structure of a concrete body of a structure or an object. The method involves passing pulsed low-frequency ultrasonic vibrations, and of registering their attenuation. To uncover the presence of conchoidal flaws, holes, etc in the body, the forms of numerous reflection impulse amplitudes passing around such defects in the tested body and in a control specimen are compared.

SUB CODE: 13/ SUBM DATE: 07Feb63

UDC: 620.192.63:620.179.16

Card 1/1

L 46788-66 EWT(1)

ACC NR: AR6004322 SOURCE CODE: UR/0274/65/000/009/A017/A017

37
B

AUTHOR: Nogin, V. N.

TITLE: Logarithmic method of generalized amplitude detection 25

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9A134

REF SOURCE: Tr. Gor'kovsk. politekhn. in-ta, v. 20, no. 5, 1964, 18-29

TOPIC TAGS: amplitude modulation, signal distortion, rectification

ABSTRACT: Detection of AM-oscillations, in which the carrier can have any value down to zero, is considered. Such oscillations arise with the simultaneous action of two AM-signals with overlapping spectra. To separate the envelopes in this case the logarithmic detection method is proposed, which involves full-wave rectification at an active load and subsequent logarithmation of the generalized AM-oscillation. The degree of nonlinear distortions arising from the nonlinearity of the logarithmic characteristics is estimated. It is shown that the nonlinear distortion factor K_r is comparatively small and does not exceed 8% for a modulation index of m=30%. Its magnitude can be estimated from the formula

Card 1/2 UDC: 621.376.23

ACC NR: AP6032928 SOURCE CODE: UR/0142/66/009/003/0371/0373

AUTHOR: Nogin, V. N.

ORG: none

TITLE: Experimental investigation of the generalized logarithmic amplitude detection

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 3, 1966, 371-373

TOPIC TAGS: signal detection, amplitude detector

ABSTRACT: A method of detecting radio signals with overlapping spectra was suggested by the author earlier (Trudy Gor'k. Polytechn. in-ta, 1964, v. 20, no. 5, 18). The result of taking logarithm from the rectified signal is given by: $u_{sor} = \log_N |\sin(\Omega t + \Delta\psi)| + \frac{1}{\ln N}\left[m\xi(t) - \frac{m^2}{2}\xi^2(t) + \ldots\right]$, where the first term in brackets is

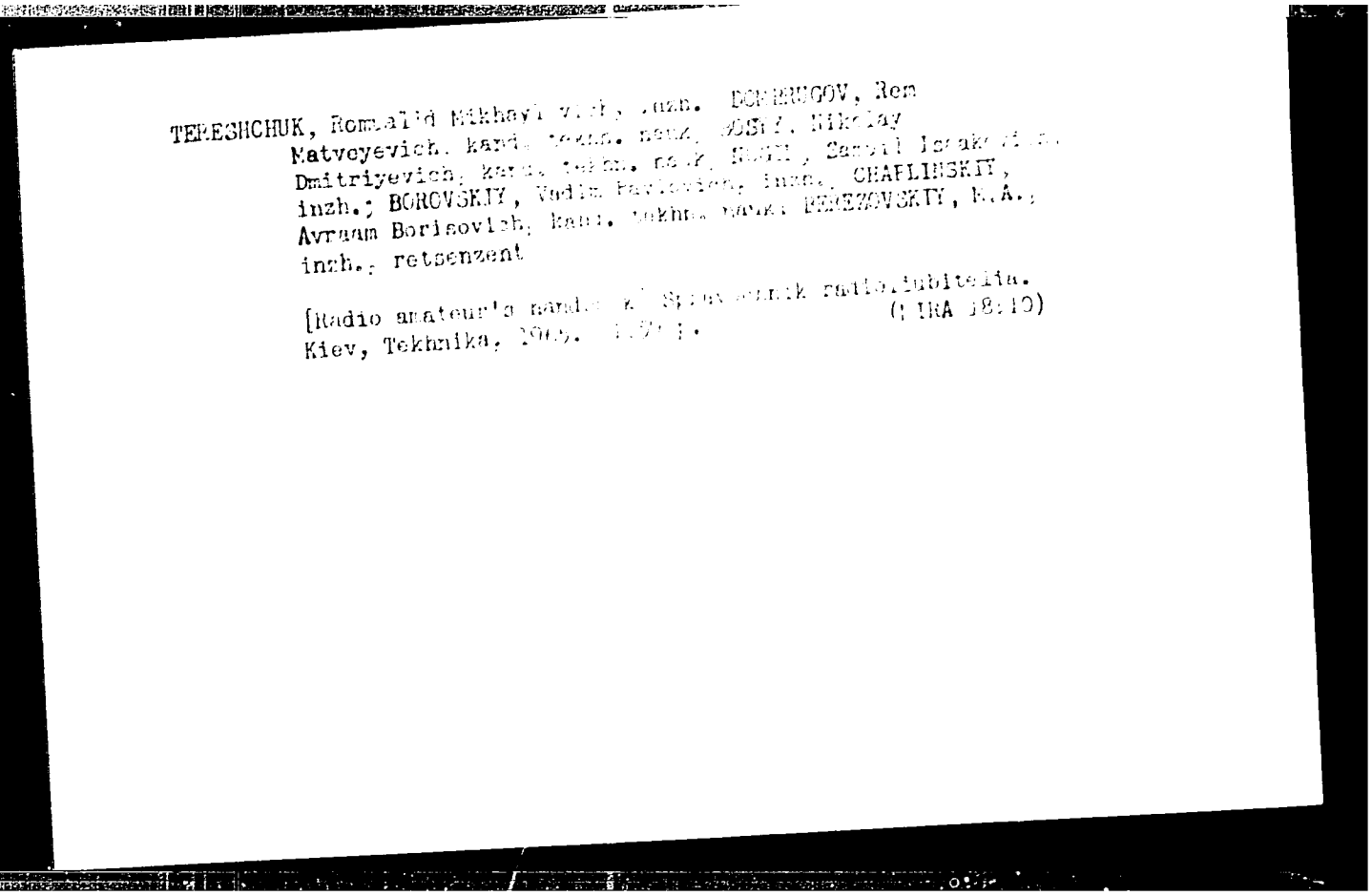
Card 1/2 UDC: 621.376.23

ACC NR: AP6032928

the isolated modulating signal and the first summand is the additive interference to be filtered out or compensated for. The article briefly reports the results of an experimental verification of the signal separation by using compensation methods. It is claimed that the above generalized log-detection method ensures practically distortionless detection of AM signals when their carrier frequency lies within the audio-frequency band. Orig. art. has: 3 figures and 3 formulas.

SUB CODE: 09 / SUBM DATE: 08Oct64 / ORIG REF: 004 / OTH REF: 002

Card 2/2



TERESHCHUK, Romalid Mikhaylovich, inzh. DOMBROVOV, Rem
Matveyevich, kand. tekhn. nauk, GOSHI, Nikolay
Dmitriyevich, kand. tekhn. nauk, KOZIN, Samuil Isaakovich,
inzh.; BOROVSKIY, Vadim Pavlovich, inzh., CHAPLINSKIY,
Avraam Borisovich, kand. tekhn. nauk; PEREZOVSKIY, M.A.,
inzh., retsenzent

[Radio amateur's handbook] Spravochnik radiolyubitelia.
Kiev, Tekhnika, 1965. [illegible]. (MIRA 18:10)

1. NOGIN, T.A.

2. USSR (600)

4. Technology

7. New way of setting up axonometric projections in machine-building. Sverdiovsk Mashgiz,1952

9. Monthly List of Russian Accessions,Library of Congress,February,1953.Unclassified.

NOGIN, T. G.

NOGIN, T. G. (Senior Veterinarian, Executive Committee of the Aktyubinsk City Soviet.) About the vitaminoprophylaxis and vitaminotherapy of young animals.

So: Veterinariya; 23; 7; July 1946; Uncl.
TABCON

NOGIN, V., inzh.; USOV, P.

Receivers with "earth" battery power supply. Radio no.10:48-49, 50 O '63. (MIRA 16:11)

GREYTS, B.V., inzh.; NOGIN, V.A., inzh.

Ground pressure on the tunnel lining of pylon-type subway stations in Cambrian clays. Transp. stroi. 14 no.2:49-50 F '64. (MIRA 17:4)

NOGIN, V.A., inzh.

Investigation of statics of carrying structures of subway stations without lateral landing platforms. Sbor. trud LIIZHT no.225:71-88 '64. (MIRA 18:8)

L 24290-66 EWT(d)/FSS-2

ACC NR: AR6005242 SOURCE CODE: UR/0058/65/000/009/H002/H003

AUTHOR: Nogin, V. N.

TITLE: Logarithmic method of generalized amplitude detection

SOURCE: Ref. zh. Fizika, Abs. 9Zh16

REF SOURCE: Tr. Gor'kovsk. politekhn. in-ta, v. 20, no. 5, 1964, 18-29

TOPIC TAGS: amplitude modulation, signal detection, nonlinear effect, signal distortion

TRANSLATION: The author investigates theoretically the problem of detection of AM oscillations, in which the carrier can have an arbitrary value bound to zero. Such oscillations occur when two AM signals with overlapping spectra act simultaneously. To separate the envelope in this case, it is proposed to use a logarithmic detection method, consisting of full-wave rectification into an active load and subsequent taking of the logarithm of the common AM oscillation. The degree of nonlinear distortion resulting from the nonlinearity of the logarithmic characteristic is estimated, and it is shown that the nonlinear distortion factor K_z is relatively small and does not exceed 8% at a modulation depth m = 30%. The distortion due to certain other features of the characteristic of real equipment is analyzed and the total distortion, which does not exceed 10%, is calculated. Recommendations are made concerning reduction of the distortion. L. Subbotin.

SUB CODE: 17

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NOGIN, V.V., inzh.

Design and calculation of devices for continuous thread accumulation and transfer. Nauch.-issl. trudy VNIILTEKMASHa no.10:5-16 '63. (MIRA 18:2)

E-2

USSR/Virology - Human and Animal Viruses.

Abs Jour : Ref Zhur - Biol., No 8, 1958, 33555

Author : Nogina, B.T.
Inst :
Title : Typing of Foot-and-Mouth Disease Virus with Sera of Recovered Large Horned Cattle.
(Tipirovanie virusa yashchura s syvorotkami perebolevshego krupnogo rogatogo skota).

Orig Pub : Veterinariya, 1957, No 4, 50-54

Abstract : The neutralization reaction of foot-and-mouth disease virus from aphtha epithelium by sera of convalescent large horned cattle was found to be typospecific. Virus-neutralizing antibodies appeared in the blood by the 7th day of disease and were preserved for 8 months. The reaction is recommended as an additional method of virus typing.

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2

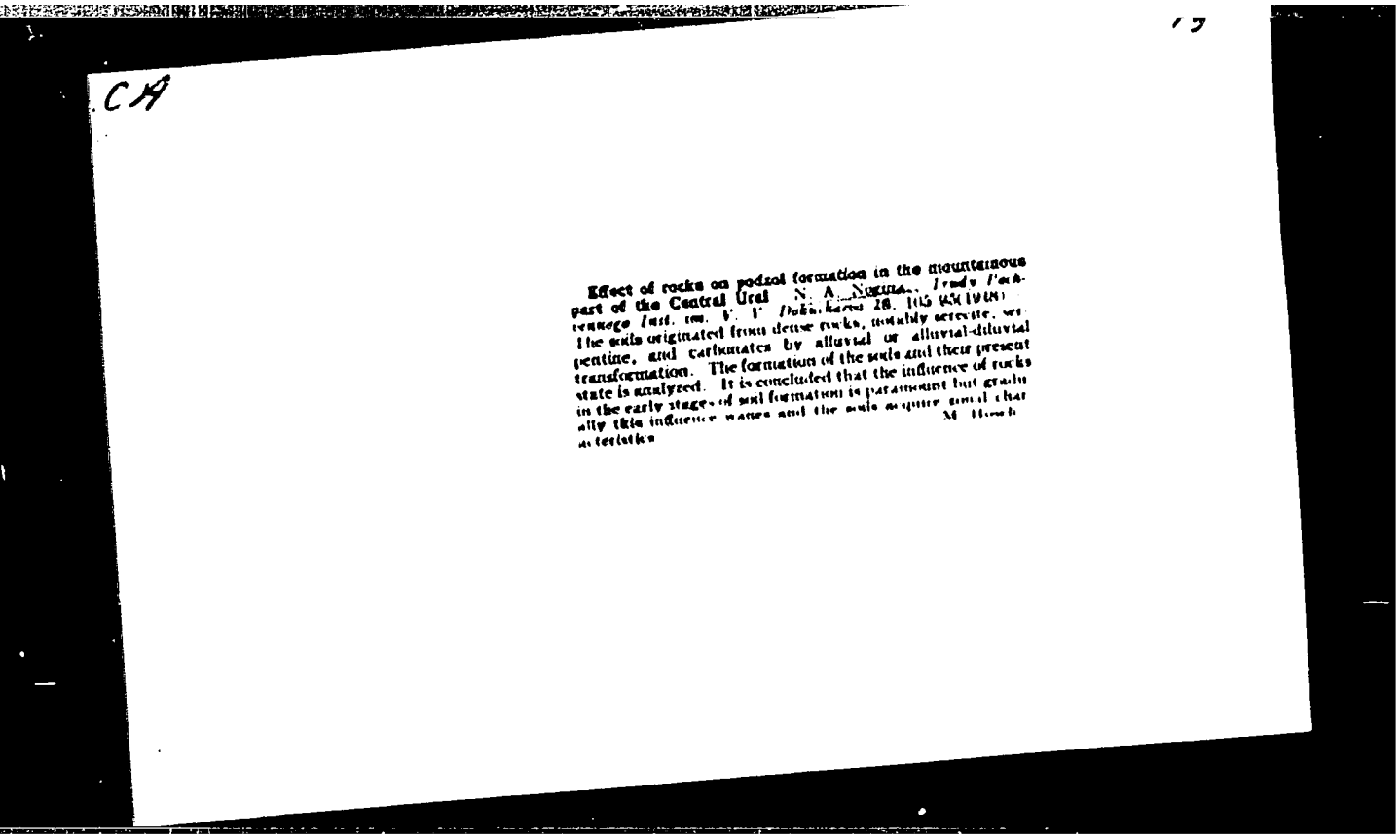
NOGINA, Nina Aleksandrovna; KANTER, A.I., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Align with the beacons of progressive practice] Kurs na maiaki peredovogo opyta. Moskva, Izd-vo "Znanie," 1962. 39 p. (MIRA 15:6)

(Moscow—Wool industry—Quality control)
(Socialist competition)

NOGINA, N. A.

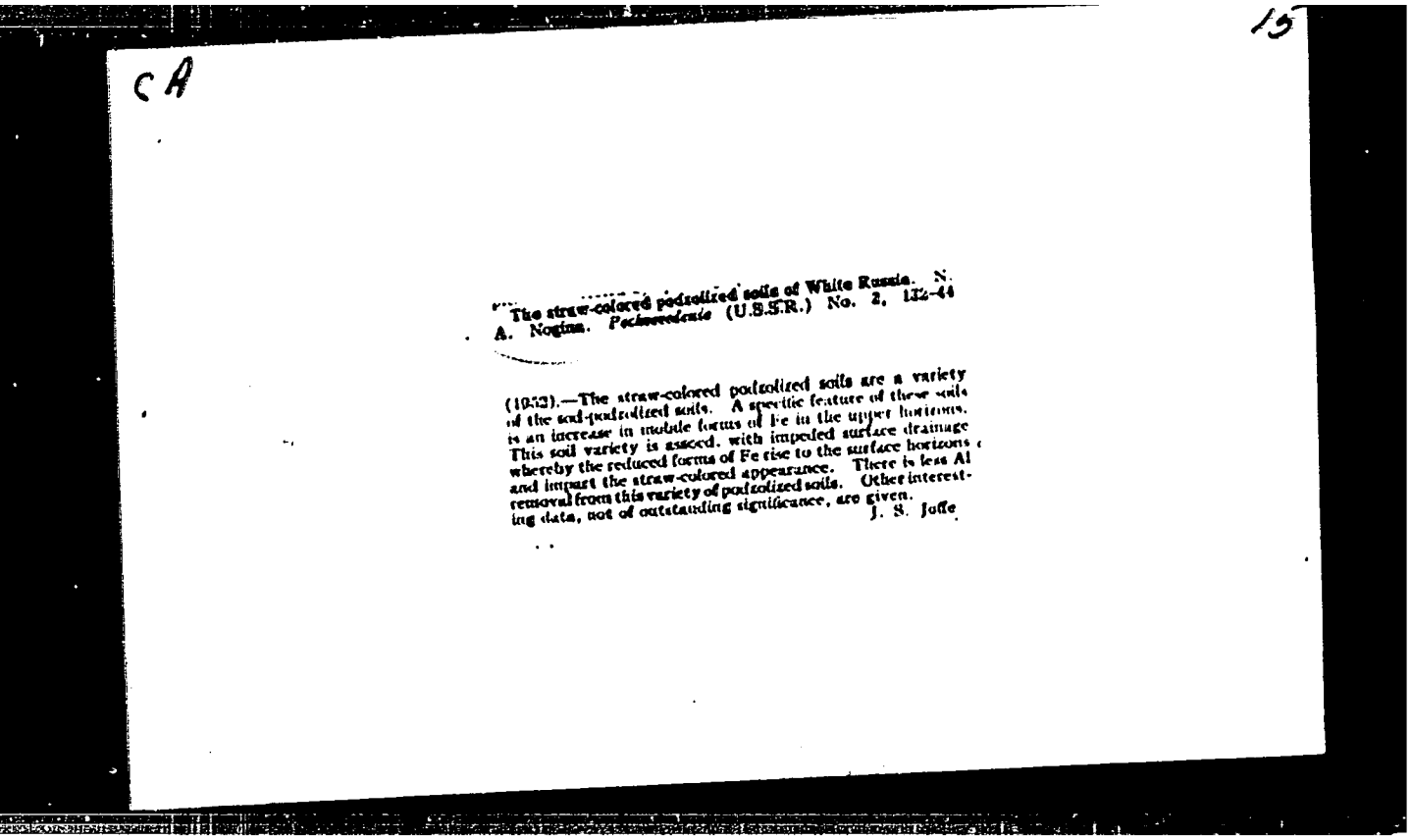
"History and Modern Status of Soil Science (The All-Union Conference on Methods of Agrochemical Research on the Fertility of Soils; All-Union Conference on Methods of Research on the Erosion of Soils; Resolution of the Conference on Methods for Research on Erosion of Soils, Moscow, 15-25 Nov. 1947; Conference for Classification of Soils and Methods of Soil Surveying)," Pochvoved., No. 3, 1948.



CA

Effect of rocks on podzol formation in the mountainous part of the Central Ural N. A. Nogina. Trudy Pochvennogo Inst. im. V. V. Dokuchaeva 28. 165 pp (1948)

The soils originated from dense rocks, mainly acid, serpentine, and carbonates by alluvial or alluvial-diluvial transformation. The formation of the soils and their present state is analyzed. It is concluded that the influence of rocks in the early stages of soil formation is paramount but gradually this influence wanes and the soils acquire zonal characteristics



CA

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The straw-colored podzolized soils of White Russia. N. A. Nogina. *Pochvovedenie* (U.S.S.R.) No. 2, 132-44 (1952).—The straw-colored podzolized soils are a variety of the sod-podzolized soils. A specific feature of these soils is an increase in mobile forms of Fe in the upper horizons. This soil variety is associd. with impeded surface drainage whereby the reduced forms of Fe rise to the surface horizons and impart the straw-colored appearance. There is less Al removal from this variety of podzolized soils. Other interesting data, not of outstanding significance, are given.

J. S. Joffe

NOGINA, N.A., YEROKHINA, A.A, NOSIN, V.A.(Cand. Agr. Sci.); IVANOVA, Ye. N. (Prof. Dr. Agr. Sci.); ROZOVM N. N. UFINTSEVA, KA., and FRIDLAND, V. M.

"Brief Description of the Soils in the Areas of New Land Reclanation," published in - An Aid to Agricultural Specialists in the Reclanation of Virgin and Fallow Lands, Shornik Materialov i Statey, Vol. 1, pp 25-144, 1954.

Translation No. 431, 30 Jun 1955.

NOGINA, N. A. -U.R.S.S.

"Sols ferrugineux de Taiga en Sibérie"

report submitted for the 6th Intl. Congress of Soil Science,
Paris, France
28 August 1956

USSR/Soil Science - Genesis and Geography of Soils. J

Abs Jour : Ref Zhur Biol., No 22, 1958, 99966

Author : Ivanova, Ye.N., Lobova, Ye.V., Nogina, N.A., Fridland, V.M.

Inst :

Title : Development of the Study of Soil Genesis in the Soviet Soil Science.

Orig Pub : Pochvovedeniye, 1957, No 12, 1-19

Abstract : Results of the development of the study of soil genesis for the past 40 years are submitted. Following the Great October Socialist Revolution, there appeared the outstanding accomplishments of K.K. Gedroyts on the study of the soils' absorbing power, which marked a new period in the development of soil science. Pedology, as a science, takes its place among the exact sciences; laboratory investigations of the soils' absorbing power are the basis for the study of soil genesis and of

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USSR/Soil Science - Genesis and Geography of Soils. J

Abs Jour : Ref Zhur Biol., No 22, 1958, 99966

solutions of ameliorating and agronomic problems. The union of laboratory and field investigations, especially, contributed a great deal towards the study of the genesis of saline soils; towards the creation of the hypothesis of continental salt accumulation and of the study of the types of crust weathering and their conformities to geographic distribution; towards the stationary investigations (dynamics of substances in the process of soil formation, water regime of the soils), and also towards the development of ideas concerning the biochemical role of organisms. Development of the basic problems of genesis in the more widely distributed soil types (tundra, podzolic, creyogenic, grey-forest, brown-forest, chernozem, grey-brown desert, subtropical, saline (solonetz and solonchak, are examined. The essential feature in the study of the genesis of soils is its many-sidedness (the adaption of a wide selection of

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NOGINA, N. A.

3(2);30(1) P.4 PHASE I BOOK EXPLOITATION SOV/2059

Akademiya nauk SSSR. Pochvennyy institut im. V. V. Dokuchayeva

Pochvennaya s"yemka; rukovodstvo po polevym issledovaniyam i kartirovaniyu pochv (Soil Surveying; A Manual on Field Surveying and Mapping of Soils) Moscow, Izd-vo AN SSSR, 1959. 346 p. 7,000 copies printed. Errata slip inserted.

Resp. Eds.: I.V. Tyurin, Academician, I. P. Gerasimov, Academician, Ye. N. Ivanova, Professor, and V. A. Nosin, Candidate of Sciences; Ed. of Publishing House: V. Ya. Markov; Tech. Ed.: I. F. Kuz'min.

PURPOSE: This book is intended for students and practitioners of soil science and land utilization. It will also be of interest to geographers and cartographers engaged in soil surveying and mapping projects.

COVERAGE: This work on soil surveying was prepared by a group of scientists of the Department of Soil Geography and Cartography of the Pochvennyy institut AN SSSR (Soil Institute, AS USSR). The book discusses the methods used in both general and special-

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purpose surveys. The basic aim of all operations is to raise agricultural productivity and introduce wise land utilization. The book includes representative maps and samples of the forms and reports to be used by the soil scientist. No personalities are mentioned. There are 46 Soviet references.

TABLE OF CONTENTS:

Soil Surveying (Cont.)

PART II

Soil Surveying (Cont.) SOV/2059

3. Forms from the soil record book 341

AVAILABLE: Library of Congress

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IVANOVA, Ye.N.; NOGINA, N.A.

Soils of Poland and their classification. Pochvovedenie no.3:63-67 Mr '59. (MIRA 12:11)

(Poland--Soils--Classification)

MOGINA, N.A.; RODE, T.A.

Effect of rocks on soil formation. Pochvovedenie no.10: 34-43 O '59. (MIRA 13:2)

1. Pochvennyy institut im. V.V.Dokuchayeva AN SSSR.
(Soil formation)

KOBZUN, Mikhail Adamovich; MAKEYEV, Oleg Vladimirovich; [redacted], Nina Alekseyevna; UFIMTSEVA, Klavdiya Andreyevna; SUMKIN, A.N., red.; SKRYLEV, A.F., tekhn.red.

[Soil zoning in the Lake Baikal portion of Siberia] Pochvennoe raionirovanie Baikal'skoi Sibiri. Ulan-Ude, Buriatskii kompleksnyi nauchno-issl.in-t, 1960. 66 p. (MIRA 14:3)
(Baikal Lake region--Soils)

NOGINA, N.A.

"Soil surveys." Reviewed by N.A. Nogina. Pochvovedenie no.10: 118-119 O '61. (MIRA 14:9)

1. Uchenyy sekretar' V Komissii Vsesoyuznogo obshchestva pochvovedeniya.

(Soil surveys)
(Nogina, N.A.)

IVANOVA, Ye.N.; ROZOV, N.N.; YEROKHINA, A.A.; NOGINA, N.A.; NOSIN, V.A.; UFIMTSEVA, K.A.; Prinimali uchastiye: IVANOVA, Ye.N.; ROZOVYY, N.N.; BUDINA, I.F.; VISHNEVSKAYA, I.V.; GERASIMOV, I.P.; KARAVAYEVA, N.A.; KOSHELEVA, I.T.; NAUMOV, Ye.M.; SEMINA, Ye.V.; SOKOLOV, I.A.; SOKOLOVA, T.A.; TARGUL'YAN, V.O.

New materials on general geography and soil classification of the polar and boreal belts of Siberia. Pochvovedenie no.11:7-23 N '61. (MIRA 14:12)

(Siberia, Northern--Soils--Classification)
(Siberia, Northern--Geography)