

NIKOLAYEV, N.I.

Outline history of the relief of the U.S.S.R. and its division into geomorphological regions. Vop.geog. no. 39:103-129 '56. (MIRA 9:11)
(Physical geography)

NIKOLAYEV, N. I.

"On the Methods of Studying the Mechanisms of the formation of Folds and Faults Which are Developing at Present," paper presented at the First All-Union Conference on Tectonophysics, Moscow, 29 January through 5 February 1957.

Moscow Geological-Prospecting Institute

Sum in 1563

APUKHTIN, N.I.; BOGRETSOVA, T.B.; BOGH, S.G. [deceased]; GENESHIN, G.S.;
 GOLUBEVA, L.V.; GROMOV, V.I.; LEASNOV, I.I.; MIKHAYLOV, B.M.;
 MIKIFOROVA, K.V.; NIKOLAYEV, N.I.; POKROVSKAYA, I.M.; POPOV, Y.V.;
 PRINTS, R.M.; RAVSKIY, E.I.; SHAMTSER, Ye.V.; SPSHTEYN, S.V.;
 YAKOVLEVA, S.V.; FRODOT'YEV, K.M., redaktor izdatel'stva; KASHINA,
 P.S., tekhnicheskiy redaktor

[Concise field manual for a comprehensive geological survey of the
 Quaternary] *Kratkoe polevoe rukovodstvo po kompleksnoi geologiches-
 skoi s'emke chetvertichnykh otlozhenii*. Sost. N.I. Apukhtin i dr.
 Moskva, 1957. 201 p. (MLR 10:9)

1. Akademiya nauk SSSR. Geologicheskiy institut. 2. Moskovskiy
 geologo-razvedochnyy institut (for Shantser). 3. Geologicheskiy
 institut Akademii nauk SSSR (for Mikiforova, Ravskiy, Golubeva)
 3. Vsesoyuznyy Nauchno-issledovatel'skiy geologicheskiy institut
 Ministerstva geologii i okhrany nedr SSSR (for Geneshin, Bogretsova,
 Mikhaylov). 4. Voenno-inzhenernaya akademiya im. Kuybysheva (for
 Popov). 5. Trast "Moageolnerud" (for Prints). 6. Severo-Zapadnoye
 geologicheskoye upravleniye (for Apukhtin)
 (Geology, Stratigraphic)

NIKOLAYEV, N.I.

Categories of relief forms and the role of the tectonic factor in their development. *Izv.AN SSSR Ser.geog.no.1:56-61 Ja-F '57.*
(MLRA 10:4)

1. Moskovskiy geologo-rasvedochayy institut.
(Physical geography)

NIKOLAYEV, N.I.

~~_____~~
Desquamation of rocks under the effect of weathering. *Zemlevedenie*
4:242-243 '57. (MIRA 10:9)

(Rocks--Cleavage)

NIKOLAYEV, N.I.

M.V. Lomonosov's progressive materialist views on general problems
of physical geography and dynamic geology. *Zemlevedenie* 4:267-275
'57. (MLRA 10:9)

(Lomonosov, Mikhail Vasil'evich, 1711-1765)
(Geology)

SUKACHEV, V.N.; GROMOV, V.I.; NIKOLAYEV, N.I.; NIKIFOROVA, E.V.; IVANOVA,
I.K.; SHANTSIN, Ye.V.; POPOV, V.V.; GRICHUK, V.P.; FEDOROV, P.V.;
GORITSKIY, G.I.

Vladimir Afanas'evich Obruchev. Biul. Kou. chetv. per. no.21:3-4
'57. (WIRA 10:6)

(Obruchev, Vladimir Afanas'evich, 1863-1956)

~~НИКОЛАЙ С. П.~~

Problem of the genesis of leas. Biol. Kon. chetv. 909. no.21:150-
152 '57. (MIRA 10:6)
(Russia--Soils)

NIKOLAYEV, N.I.

Planning the legend for the neotectonic map of the U.S.S.R. Isv.
vys.ucheb.zav.; geol.i razv. 1 no.9:3-13 8 '58.
(MIRA 12:9)

1. Moskovskiy geologorazvedochnyy institut im. S.Orishonikidse.
Kafedra obshchey geologii.
(Geology, Structural--Maps)

NIKOLAYEV, N.I.

History of the development of the principal geomorphological concepts:
first study. Och. po ist. geol. stran. no. 61-96 '58. (MIRA 11:8)
(Physical geography)

SCN/10-59-4-4/89

On the Problems of Origin of Surface Loams

clearly articulated break. Polish geomorphologists J. Dylik, M. Klimashevskiy, A. Jahn, and others also made great contributions to this investigation, the most prominent being J. Dylik. His views are very close to those of the Soviet scientists A.I. Moskvitin, A.I. Popov, K.I. Garenchuk, and others who are considered leading in this field. In addition to this, the article mentions the names of the following Soviet scientists: A.P. Ivanov, N.M. Sibirtsev, N.D. Glinka, A. Krasnyuk, V.G. Khimenkov, A.G. Trutnev, N.A. Yakovlev, P.N. Panyukov, M.M. Shukevich, I.I. Krasnov, I.P. Gerasimov, N.I. Nikolayev, I.N. Salov, F.F. Markov, V.V. Okhotin, G.P. Mazurov, N.P. Vasil'kovskiy, M.V. Muratov, L.S. Berg, P.I. Chizhikov, G.F. Kirchink, A.D. Arkhangel'skiy, S.A. Dobrov, A.I. Spiridonov, B.M. Dan'shin, Ye.V. Golovina, N.N. Sokolov, N.A. Solntsev, V.P. Grichuk, V.S. Govorukhin, P.A. Tutkovskiy, and A.B. Missuna. Summing up the following must

Card 2/3

007/10-59-4-4/29

On the Problems of Origin of Surface Loams

be taken into consideration: 1) the term "surface loams" should not be used since it is antiquated and has merely a collective meaning; instead, the terms "primary and secondary loams" should be used; 2) none of the 10 hypotheses on loam origin and its age can be considered universal; 3) only comprehensive studies of geomorphologists, geographers, geologists, ground researchers, soil scientists, and permafrost specialists can solve this problem. There are 3 sets of diagrams, 1 table, and 28 references, 17 of which are Soviet, 6 English, 4 Polish and 1 German.

ASSOCIATION: Moskovskiy geologorazvedochnyy institut imeni Sergo Ordzhonikidze (Moscow Geological Exploration Institute imeni S. Ordzhonikidze)

Card 3/3

NIKOLAYEV, N.I.

Nature and morphological type of deep-seated fractures as
illustrated by the main fracture of the Kara-Tau. Sov.geol. 2
no.7:73-80 J1 '59. (MIRA 13:1)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordschonikidze
(MGRI).

(Kara-Tau--Faults (Geology))

NIKOLAYEV, N.I.; BARAK, V.I.; KATS, Ya.G.; KIZEL'VATER, D.S.; NIKITINA,
M.I.; PAVLINOV, V.M.; PAISOVA, N.K.; PEREPYELKINA, S.M.; RYZHOVA,
A.A.; SAPOZHNIKOV, D.G.

"Principles of structural geology and geological mapping" by
A.B.Mikhailov. Reviewed by N.I.Nikolaev and others. *Izv.vys.*
ucheb.sav.; geol.i razv. 2 no.11:125-127 # '59.
(MIRA 13:6)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordsbonkidse.
(Geology. Structural—Maps) (Mikhailov, A.B.)

NIKOLAYEV, N. I. and SHULIS, S. S.

"The Map of Recent Tectonics (neotectonics) of the USSR"

report to be submitted for the Intl. Geographical Union, 10th General Assembly
and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

NIKOLAYEV, N.I.

Study of the nature of recent tectonic movements in areas of large
hydraulic structures. Trudy MGRI 38:42-46 '60. (MIRA 14:5)
(Geology, Structural) (Hydraulic engineering)

NIKOLAYEV, N.I.

Studying the geomorphology and recent tectonics of China. Trudy MGRI
38:18-28 '60. (MIRA 14:5)

(China—Geology, Structural)

NIKOLAYEV, N.I.

Conference on the problem of sands and their reclamation.

Zemlevedenie 5:5-8 '60.

(MIPA 15:8)

(Reclamation of land)

(Sand)

NIKOLAYEV, N.I.

Methods of study and principles of compiling maps of recent
tectonics. *Zemlevedenie* 5:239-260 '60. (IGRA 15:8)
(Geology structural--Maps)

ABDULKABIROVA, H.A.; ALEKSANDROVA, M.I.; AFONICHEV, H.A.; BENDALITOV,
 S.M.; BESPALOV, V.F.; BOGDANOV, A.A.; BOLOVIKOV, L.I.; BORSUY,
 B.I.; BORUKAYEV, R.A.; BUVALKIN, A.K.; BYKOVA, H.S.; DVORTSOVA,
 K.I.; DEMBO, T.M.; ZHUKOV, M.A.; ZVORTSOV, V.S.; IVSHIN, N.K.;
 KOPIATKEVICH, R.A.; KOSTENKO, N.N.; KUMPAN, A.S.; KULDYUKOV,
 K.V.; LAVROV, V.V.; LYAPICHEV, G.F.; MAZURKEVICH, M.V.;
 MIKHAYLOV, A.Ye.; MIKHAYLOV, N.P.; MYCHNIK, M.B.; NIDLENKO, Ye.N.;
 NIKITIN, I.F.; NIKIFOROVA, K.V.; NIKOLAYEV, N.I.; PUPYSHEV, H.A.;
 RASKATOV, G.I.; RENGARTEN, P.A.; SAVICHVA, A.Ye.; SALIN, B.A.;
 SEVRYUGIN, N.A.; SEMENOV, A.I.; CHEFNYAZHOVSKIY, A.G.; CHUYKOVA,
 V.G.; SHLYGIN, Ye.D.; SHUL'GA, V.M.; EL'GER, L.S.; YAGOVKIN, V.I.;
 KALIVKIN, D.V., akademik, red.; PERMINOV, S.V., red.; MAKUSHIN,
 V.A., tekhn.red.

[Geological structure of central and southern Kazakhstan]
 Geologicheskoe stroenie Tsentral'nogo i Iuzhnogo Kazakhstana.
 Leningrad, Otdel nauchno-tekhn.informatsii, 1961. 496 p.
 (Leningrad. Vsesoiuznyi geologicheskii institut. Materialy, no.41)
 (MIRA 14:7)

(Kazakhstan--Geology)

NIKCLAYEV, N.I.; SHUL'TS, S.S.

Map of the recent tectonics of the U.S.S.R. Izv. AN SSSR. Ser.
geog. no. 4:25-32 Ji-Ag '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.
(Geology, Structural--Maps)

NIKOLAYEV, N.I.

Using the data on recent tectonics. Sov.geol. 4 no.5:110-120
Mg 1961. (MIRA 14:6)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordsbonikidse.
(Geology, Structural)

NIKOLAYEV, N.I.; SHUL'TS, S.S.

Map of the latest tectonics of the U.S.S.R. *Izv.vys.ucheb.zav.;*
geol.i rasv. 4 no.10:3-8 0 '61. (MIRA 14:12)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze,
laboratoriya aerometodov AN SSSR.

NIKOLAYEV, N.I.

Tectonics and metallogeny of the Kara-Tau (southern kazakistan).
Trudy MGRI 37:159-176 '61. (MIRA 15:1)
(Kara-Tau--Geology, Structural) (Kara-Tau--Ore deposits)

NIKOLAYEV, N.I.; BELYAKOV, L.V.; MAKARYCHEV, G.I.; FAZILOVA, V.I.

Ancient rocks in the Kara-Tau (southern Kazakhstan). Trudy MGRU
37:131-136 '61. (MIRA 15:1)

(Kara-Tau--Rocks)

POPOV, I.V., doktor geol. zin. nauk, prof, red.; BOGOMOLOV, G.V., akademik, red.; GVOZDETSKIY, N.A., doktor geogr. nauk, prof., red.; BODIONOV, N.V., kand. geol.-zin. nauk, red.; SOKOLOV, D.S., doktor geol.-min. nauk, red.; NIKOLAYEV, N.I., doktor geol.-min.nauk, prof., red.; SOKOLOV, N.I., doktor geol.-min. nauk, prof., red.[deceased]; PERVAKOV, I.P., red.isd-va; SUSHKOVA, L.A., tekhn. red.; GOLUB', S.P., tekhn. red.

[Special problems of the study of karst; its hydrogeology, hydrology, geochemistry, engineering geology, and minerals] Spetsial'nye voprosy karstovedeniia; gidrogeologiya, gidrologiya, geokhimiia, inzhenernaia geologiya i poleznye iskopae-mye. Doklady, Moskva, Izd-vo Akad. nauk SSSR, 1962. 182 p. (MIRA 15:12)

1. Nauchnoye soveshchaniye po izucheniyu karsta. 3d, Moscow, 1956. 2. Akademiya nauk Belorusskoy SSR (for Bogomolov). (Karst)

NIKOLAYEV, Nikolay Ivanovich; SMIRNOVA, Z.A., red.; GUROVA, G.A.,
tekh. red.

[Recent tectonic movements and their evidence in the structure
and relief of the territory of the U.S.S.R.] Neotektonika i ee
vyrashenie v strukture i rel'efe territorii SSSR; voprosy re-
gional'noi i teoreticheskoj neotektoniki. Moskva, Geogeoltekh-
izdat, 1962. 391 p. (MIRA 16:5)

(Geology, Structural)

NIKOLAYEV, N. I.

Structural forms of recent tectonics and their distribution in the
U.S.S.R. Sov.geol. 5 no.5:6-17 My '69. (MIR, 1969)

1. Moskovskiy geologo-razvedochnyy institut imeni S. Ordzhonikidze.
(Geology, Structural)

NIKOLAEV, N.I. (Nikolayev, N.I.); SULT, S.S. (Shul'ts, S.S.)

The newest tectonic map of the U.S.S.R. *Analele geol geogr* 16
no.2:118-126 Ap-Je '62.

KHAIN, Viktor Yefimovich; OGNEV, V.N., prof., reprintsent:
NIKOLAYEV, N.I., prof., reprintsent

[General geotectonics] Obshchaya geotekhnika. Moskva,
Nedra, 1964. 476 p. (MIP 17:10)

.. Zaveduyushchiy kafedroy obshchey geologii Leningradskogo
universiteta (for Ognev). 2. Zaveduyushchiy kafedroy ob-
shchey geologii Moskovskogo geologorazved. otdel. instituta
(for Nikolayev).

NIKOLAYEV, N.I.

Problems of recent tectonics; on the conference results of the
Fourth Plenum of the Geomorphological Committee, May 19-23,
1964. Izv. AN SSSR Ser. geog. no.6:141-150 N-D '64.

(MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet.

NIKOLAYEV, N.I.

Problems of recent tectonics; concerning the results of the 4th
Plenary Session of the Geomorphological Commission. Sov. geol. 8
no.5:140-146 My '65. (MIRA 18:7)

LUNGERSCAUZEN, G.F.; NIKOLAYEV, N.I.

Ivan Semenovich Shchukin, 1909; on his 60th birthday. Sev. geol. 8 no.5;
154-156 Np '69. (MIRA 18:7)

RIKHTER, Vladislav Gavrilovich; NIKOLAYEV, N.I., red.

[Methods of studying the recent and latest tectonics of
the shelf zones of seas and oceans] Metody izucheniia
noveishei i sovremennoi tektoniki shel'fovyykh zon morni i
oceanov. Moskva, Nedra, 1965. 243 p. (MIRA 18:10)

14(5)

PHASE I BOOK EXPLOITATION

SOV/2400

Shamshev, F.A., N.P. Knyupfer, N.I. Nikolayev, S.N. Tarakanov, and Ye.A. Sal'ye

Razvedochnoye buvaniye (Exploratory Drilling) Moscow, Gosgeoltekhizdat, 1958. 485 p. Errata slip inserted. 20,000 copies printed.

Ed. (Title page): F.A. Shamshev; Ed. (Inside book): V.A. Boravlev; Ed. of Publishing House: N.B. Nekrasova; Tech. Ed.: O.A. Osova.

PURPOSE: This textbook is intended for petroleum geology and engineering students in schools of higher learning and for engineering personnel engaged in exploratory drilling.

COVERAGE: The book covers the main theoretical and practical aspects of exploratory drilling. Equipment and methods are described and their effectiveness evaluated. Data on oil drilling tools and auxiliary equipment include specifications and diagrams. N.P. Knyupfer prepared the chapter on measurement in directional drilling including the deflection of boreholes. N.I. Nikolayev contributed the data on rotary and turbo-drilling,

Card 1/12

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137110015-1"

Exploratory Drilling

SOV/2400

percussion and electrodrilling, and on flushing, blasting, and cementing operations. Part I of the book was written by S.N. Tarakanov, Parts II and III by F.A. Shamshev. The chapter on the organization of exploratory drilling was compiled by Ye.A. Sal'ye. The author thanks Ye.F. Epshteyn, N.I. Lyubimov, and V.A. Boravlev. Of particular interest are the chapters dealing with turbo-drilling and electrodrilling, and the information on shooting methods, bit design, and bit wear. Various approaches to rock penetration are analyzed and the specific considerations calling for the use of one or another type of bit are given. Extensive information is also available on percussion-type drilling techniques including the application of vibration methods. There are 114 references: 113 Soviet and 1 German.

TABLE OF CONTENTS:

Foreword	3
Introduction	4
Classification of Drilling Methods Based on the Mode of Rock Fracturing at the Bottom Hole	5

Card 2/12

NIKOLAYEV, N.I., inzh.

Economic efficiency of reorganizing Kuznetsk Basin mines. *Izv. vys. ucheb. zav.; gor. zhur. no.8:6C-64 '61.* (MIRA 15:5)

1. Kemerovskiy gornyy institut. Rekomendovana kafedroy ekonomiki i organizatsii proizvodstva Kemerovskogo gornogo instituta.

(Kuznetsk Basin—Coal mines and mining—Costs)

BELYAYEVSKIY, N.A., *otv. red.*; BERTEN, A.M., *otv. red.*; GHEHMAN, Yu.M., *otv. red.*; BELCUSEV, V.V., *red.*; BOGDANOV, A.A., *red.*; GASETSKIY, R.G., *red.*; GUBIN, I.Ye., *red.*; KROFOTKIN, F.N., *red.*; SHREYS, N.A., *red.*; MAZAROVICH, O.A., *red.*; MURATOV, M.V., *red.*; NIKOLAYEV, N.I., *red.*; PAVLOVSKIY, Ye.V., *red.*; FEYVE, A.V., *red.*; PETRUSHEVSKIY, B.A., *red.*; PUSHCHAROVSKIY, Yu.M., *red.*; YANSHIN, A.L., *red.*

[Tectonics, igneous activity and distribution of ore deposits; materials] Tektonika, magmatizm i zakonornosti razmeshcheniya rudnykh mestorozhdenii; materialy. Moskva, Nauka, 1964. 237 p. (MIRA 17:8)

1. Soveshchaniye po problemam tektoniki, Moscow, 1963.

NIKOLAYEV, N.I., inzh.

Economic and mathematical formulation and methods of solving
problems determining the effectiveness of capital investments
in the coal industry. Izv.vys.ucheb. zav.; gor.zhur. 7 no.3:
48-53 '64 (MIRA 17:8)

1. Kemerovskiy gornyy institut.

DEPBAREMUDER, M.I.; SEREBENNIKOVA, E.I.; TERNOVSKIY, V.A.; uchastnye
uchastnye: SHAROV, P.M.; NOVIKOV, L.Z.; LUBINS, P.I.; SIDOROV,
M.K.; KARABIN, A.I. (deceased); KOSTIN, L.I.; BOROY, V.B.;
MEDVEDEV, F.V.; GELIMKHANOV, S.G.; BONDAR', V.G.; TIMOFEEV,
P.I.; MININA, L.V.; AREFKOV, F.F.; NIKOLAYEV, N.I.; YAROSLAV,
T.Ye.; NUDEL'MAN, V.G.

Gasification of mazut under pressure in a steam-oxygen blast.
Gaz. prom. 9 no.11:49-50 '64. (MIPA 17-12)

BELOUSOV, V.V., red.; BELYAYEVSKIY, N.A., red.; BOGDANOV, A.A.,
red.; GARETSKIY, R.G., red.; GUBIN, I.Ye., red.; K
KROPOTKIN, P.N., red.; LEITES, A.M., red.; MAZAROVICH,
O.A., red.; MURATOV, M.V., red.; NIKOLAYEV, N.I., red.;
PAVLOVSKIY, Ye.V., red.; FEYVE, A.V., red.; PETRUSHEVSKIY,
B.A., red.; PUSHCHEVSKIY, Yu.M., red.; SHEYNMANN, Yu.M.,
red.; SITSEY, N.A., red.; YANSHIN, A.L., red.

[Problems of the comparative tectonics of ancient platforms;
materials] Voprosy sravnitel'noi tektoniki drevnikh platfom;
materialy. Moskva, Nauka, 1964. 152 p. (MIRA 17:8)

GARETSKIY, R.G., otv. red.; YANSHIN, A.L. akademik, otv. red.;
BELOUSOV, V.V., red.; BELYAYEVSKIY, N.A., red.; BOGDANOV,
A.A., red.; GUBIN, I.Ye., red.; KROPOTKIN, P.N., red.;
LEYTES, A.M., red.; MAZAROVICH, O.A., red.; MURATOV, M.V.,
red.; NIKOLAYEV, N.I., red.; PAVLOVSKIY, Ye.V., red.; PEYVE,
A.V., red.; PETROSHCHEVSKIY, B. red.; PUSHCHAROVSKIY, Yu.M.,
red.; SHEINMANN, Yu.M., red.; SHTEYNS N.A., red.

[Young platforms, their tectonics, and prospects for find-
ing oil and gas; materials] Molodye platformy, ikh tektonika
i perspektivy neftegazonosnosti; materialy. Moskva, Nauka,
1965. 223 p. (MIRA 18:3)

1. Soveshchaniye po problemam tektoniki, Moscow, 1963.

SAKS, V.N., plav. red.; ANTONOV, N.A., zap. glav. red.; BLIKB,
S.F., red.; BOGIN, V.V., red.; VOLKOVA, V.S., red.;
GRONOV, V.I., red.; IVANOVA, I.K., red.; LAURENT'YEV, A.I.
red.; MARTYNOV, V.A., red.; MIKOLAYEV, M.I., red.; STRELKOV,
S.A., red.; TRITSKIY, S.L., red.; CHOCHIA, N.G., red.;
SHANTSER, Ye.Z., red.; SHATSKIY, S.B., red.

[Basic problems in the study of the Quaternary period; for
the 7th Congress of INQUA, U.S.A., 1965] Osnovnye problemy
izucheniya chetvertichnogo perioda: k VII Kongressu INQUA
(SSHA, 1965). Moskva, Nauka, 1965. 296 p. (MIRA 18:9)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut
geologii i geofiziki. 2. Chlen-korrespondent AN SSSR (for
Saks).

SUKACHEV, V.H.; BOGDANOV, A.A.; IVANOVA, I.K.; LAZUKOV, G.I.; NIKOLAYEV, N.I.;
YANUSHOVA, A.F.; GELLER, S.Yu.; GRICHUK, V.P.; MOLESNIK, S.V.;
SOKOLOV, N.N.; LICHKOV, B.L.; GORETSKIY, G.I.; SHCHUKIN, I.S.;
BYKOV, V.D.; SAUSHKIN, Yu.G.; GLAZOVSKAYA, M.A.; GVOZDETSKIY, N.A.;
TUSHINSKIY, G.K.

Konstantin Konstantinovich Markov's role in the creation and develop-
ment of the paleogeography of the anthropogenic (the Quaternary)
period; on his 60th birthday and the 40th anniversary of scientific
work. Izv. Vses. geog. ob-va 97 no.4:377-379 J1-Ag '65.

(MIRA 18:8)

NIKOLAYEV, N.I.

Problem of the nature of tectonic movements. Vest. Mosk. un.
Ser. 4: Geol. 20 no. 6:3-17 N-D '65 (MIRA 1961)

1. Kafedra dinamicheskoy geologii Moskovskogo universiteta
imeni M.V. Lomonosova. Submitted April 5, 1965.

Handwritten: A. K. LAYEV, V. I. I.

Complexes of Alkylolithium and ...
A. K. LAYEV and V. I. I.
...
...
...

3

NIKOLAYEV, N.I.

**AUTHORS
TITLE**

Kropachev, V.A., Dolgoplosk, B.A., Nikolayev, N.I., 20-5-26/59
Complex Formation and Chain Structure in the Polymerisation of
Divinyl by Lithium Butyl.
(Kompleksobrazovaniye i struktura tsepi pri polimerizatsii divini-
la litiybutilom - Russian)
Doklady Akademii Nauk SSSR, 1957, Vol 115, Nr 5, pp 516-517 (U.S.S.R)

**PERIODICAL
ABSTRACT**

In a series of papers it was determined that on the occasion of the catalytic polymerization of monoolefines and dienes the chain structure is to a great extent determined by the nature of the catalytic complex which takes part in the polymerization. Thus the catalytic initial complex has an immediate relation to every prolongation of the chain. The isolation of the pure lithium organic compounds is rather difficult. On this occasion also complex mixtures of the oxidation products of the metal-organic compounds are formed besides the latter. It was expedient to study the influence of oxygen in order to explain the influence exercised by the mentioned oxidation products on the chain structure on the occasion of the butadien polymerization. The authors proved that, as the title says, on the occasion of the polymerization the introduction of relatively small oxygen quantities into the system leads to an essential increase of the members 1,2 in the polybutadien at the cost of a reduction of the members 1,4. Similar was the influence of alcohol and carbo-lic acid. This knowledge is of fundamental interest since it points out the necessity of protecting the system against the penetration of oxygen, if divinyl on the occasion of its polymer synthesis con-

Card 1/2

87168

S/062/60/000/012/007/020
B013/B0555 3100
AUTHORS:Zgonnik, V. N., Kropachev, V. A., Nikolayev, N. I.,
and Dolgoplosk, B. A.

TITLE:

Reactions of Organometallic Compounds With Heavy-metal
Salts. IV. Interaction of Ethyl Lithium With Titanium
Trichloride

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1960, No. 12, pp. 2157-2161

TEXT: The present work is a study of the reaction of ethyl lithium with the purple, crystalline α -modification of titanium trichloride in hydrocarbon mediums. The reaction was performed at 0, 20, 55, and 100°C applying various molar ratios of ethyl lithium and titanium trichloride. The yields and compositions of the gaseous reaction products are summarized in Table 1. It can be seen that the ratio of the reactants has a stronger influence on the composition of the gases than the reaction temperature. The yields of gaseous reaction products increase with increasing temperature and at 100°C approach the theoretical amount with regard to the initial ethyl lithium. ✓

Card 1/3

87168

Reactions of Organometallic Compounds With Heavy-metal Salts. IV. Interaction of Ethyl Lithium With Titanium Trichloride

9062/60/007/012/007/020
P013/B055

proceeds much more rapidly and at lower temperatures in the presence of titanium trichloride. At 55-100°C this reaction is very rapid. In experiments at these temperatures, 1 mole titanium trichloride caused decomposition of up to 7 mole ethyl lithium (Table 3). The results obtained show that titanium halides catalyze the decomposition of ethyl lithium to ethylene and lithium hydride. There are 1 figure, 3 tables, and 11 references: 2 Soviet, 3 German, and 7 US. ✓

ASSOCIATION: Institut vysokomolekulyarnykh soedineniy Akademii Nauk SSSR (Institute of High-molecular Compounds of the Academy of Sciences USSR)

SUBMITTED: July 11, 1959

Card 3/3

ZGORNIK, V.N.; DOLGOPLCSK, B.A.; NIKOLAYEV, N.I.; KROPACHEV, V.A.

Polymerization under the influence of homogeneous catalytic
"cobalt" systems. Vysokom.soced. 4 no.7:1000-1004 JI '62.
(MIRA 15:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Polymerization) (Cobalt compounds)

15,9201

40387
9/020/62/145/006/011/015
B106/B144

AUTHORS:

Zgonnik, V. N., Dolgoplosk, B. A., Corresponding Member AS
USSR, Kropachev, V. A., and Nikolayev, N. I.

TITLE:

Some regularities observed in the polymerization of butadiene
under the action of catalytic systems containing cobalt

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 6, 1962, 1205-1207

TEXT: The authors studied the polymerization of butadiene under the ac-
tion of a homogeneous catalytic system consisting of a cobalt chloride -
pyridine complex and diisobutyl aluminum chloride, using a technique
already described (Vysokomolek. soved., 4, no. 7 (1962)). With benzene
as a solvent, temperatures between 5 and 50°C, and with contents of:

1.2 moles/l butadiene, $2.1 \cdot 10^{-5}$ moles/l $CoCl_2 \cdot Py_2$, $1.5 \cdot 10^{-2}$ moles/l

$Al(iso-C_4H_9)_2Cl$, the yield of polymer was ~40%. Table 1 gives the
mean values from several determinations of the polymerization rate and
molecular weight of polymer. These correspond with a total activation
energy of 8.2 kcal/mole. The polymerization rate at 20°C is directly
Card 1/3

Some regularities observed in ...

S/020/62/145/006/011/015

B106/B144

proportional to the monomer concentration between 6 and 23 moles butadiene on the one hand, and to the CoCl_2Py_2 concentration between $9 \cdot 10^{-6}$ and $7.6 \cdot 10^{-5}$ moles/l on the other hand. The molecular weight of the polymer is directly proportional to the monomer concentration. Experiments showed that many molecules of polymer were formed for each molecule of CoCl_2Py_2 . Chain rupture was found to be attended by a regeneration of the active centers. The distribution curves of the molecular weights of polybutadiene samples with a conversion $< 10\%$ showed that the molecular weight increases and the distribution width decreases (\bar{M}_w/\bar{M}_n changes from 1.05 to 1.5) when the CoCl_2Py_2 content decreases. When using the catalytic system $\text{CoCl}_2\text{Py}_2\text{-Al(iso-C}_4\text{H}_9)_2\text{Cl}$, the distribution width of the molecular weight was found to increase as polymerization progresses. There are 4 figures and 3 tables. The English-language references are: G. J. Natta, Pol. Sci., 48, 150, 221 (1960); K. Gippin, Rubb. Age, 89, 802 (1961).

Card 2/3

NIKOLAYEV, N.I.; GELLER, N.M.; DOLGOPLOSK, B.A.; ZGOMNIK, V.N.; KEGACHEV, V.A.

Polymerization of isoprene and butadiene under the effect of insoluble
organolithium compounds. Vysokemolekul. Soedin. 5 no.6:811-815 Je '63.
(MIRA 16:9)

1. Institut vysekemolekulyarnykh soedineniy AN SSSR.
(Butadiene) (Polymerization) (Lithium organic compounds)

L 12433-23 EFR/EWP(j)/EFF(c)/EWT(m)/BDS ASD Fb-h/Pc-h/Pr-h 74
EP/WF
ACCESSION NR: AP300118 S/0190/63/005/006/0311/0815 73

AUTHOR: Nikolayev, N. I.; Geller, N. M.; Dolgoplosk, B. A., Zgonnik, V. N.; Kropachev, V. A.

TITLE: Polymerization of isoprene and butadiene by insoluble organo-lithium compounds

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 5, no. 6, 1963, 811-815

TOPIC TAGS: polymerization, isoprene, butadiene, methyllithium amide, dialkyl-lithium amide

ABSTRACT: Organic lithium compounds insoluble in hydrocarbons and monomers were selected so as to allow the polymerization process to proceed gradually, with a chance of formation of longer chains. Such lithium compounds could also be of higher purity to eliminate side reactions with the impurities. Polymerization of isoprene and butadiene in benzene or petroleum ether solutions was conducted in sealed ampules by standard methods, using methyllithiumamide and dialkyl-lithiumamide as catalysts. The obtained polymers were precipitated by ethanol and dried at 20C, and their viscosity and molecular weight determined. It was shown that methyllithiumamide leads to the formation of polyisoprene with 91-92% of 1,4-chains of 500 000--2 500 000 molecular weight, while dialkyl-lithiumamide

Card 1/2

L 12433-63
ACCESSION NR: AP3001148

produces a polyisoprene rich in 3,4-chains, the distribution of cis- and trans-forms being nearly equal. Under similar conditions both catalysts produced polybutadienes containing 85-89% of 1,4-units in their chains, with 10-5% of them in transconfiguration. Orig. art. has: 2 formulas and 2 tables.

ASSOCIATION: Institut vyssokomolekulyarnykh soyedineniy AN SSSR (Institute of High-Molecular Compounds, Academy of Sciences SSSR)

SUBMITTED: 09Nov61

DATE ACQ: 01JUL53

ENCL: 00

SUB CODE: 00

NO REF SOV: 003

OTHER: 003

Card 2/2

Авторы: В.А. Ковалев, В.А. Ковалев, М.А. Ковалев, М.А. Ковалев.

Effect of water on the polymerization of butadiene in the presence of "bait" catalysts. *Vysokom. soob.* (no. 3) 318-321, 1964.

1. Institut vysshel'skikh nauchnykh soedineniy AN SSSR.

L 24400-66 EWT(1)

ACC NR: AP6011007

SOURCE CODE: UR/0056/66/050/003/0821/0826

AUTHORS: Borman, V. D.; Nikolayev, B. I.; Nikolayev, N. I.

ORG: Moscow Engineering-Physics Institute (Moskovskiy inzhenerno-fizicheskiy institut)

TITLE: Transport phenomena in a polar gas

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 3, 1966, 821-826

TOPIC TAGS: transport phenomenon, thermal conduction, tensor gas kinetics, kinetic equation, Stark effect

ABSTRACT: The authors use a kinetic equation proposed by Yu. M. Kagan and A. M. Afanas'yev (ZhETF v. 41, 1536, 1961) to derive an expression for the thermal conductivity tensor of polar gases with linear molecules in an electric field. This is done by solving the kinetic equation for the gases in an approximation which is quadratic in the parameter of nonsphericity of the interaction, and determining

Card

1/2

НИКОЛАЕВ, Н.И., кандидат технических наук.

Determining the diameter of rollers for removing ears with a corn picker.
Sel'khoz mashina no.10:11-14 0 '53). (MLBA 6:11)

- 1. Rostovskiy na Donu institut sel'skokhozyaystvennogo mashinostroyeniya.**
(Corn picker (Machine))

NIKOLAYEV, N.I., kandidat tekhnicheskikh nauk.

**Effect of the working surface form of corn snapping rolls on
performance indexes. Sel'khozmaschina no.1:12-13 Ja '55.
(MIRA 8:3)**

- 1. Moskovskiy n/D institut s-kh.mashinostroyeniya.
(Corn picker (Machine))**

NIKOLAYEV, N.I., otv. red.; LENSKAYA, G.H., zam. otv. red.; PASTUKHOV,
B.W., zam. otv. red.; FENYUK, B.K., zam. otv. red.; ISHUNINA, T.I.,
red.; AKIYEV, A.K., red.; DCMARADSKIY, I.V., red.; DROZHEVSKINA,
M.S., red.; ZHOVTYY, I.F., red.; KOROBKOVA, Ye.I., red.;
KRAMINSKIY, V.A., red.; KRATINOV, A.G., red.; LEVI, M.I., red.;
LOBANOV, V.N., red.; MIRONOV, N.P., red.; PETROV, V.S., red.;
PLANKINA, Z.A., red.; PYPINA, I.M., red.; SMIRNOV, S.M., red.;
TER-VARTANOV, V.N., red.; TIFLOV, V.Ye., red.; FEDONOV, V.N.,
red.; PARNES, Ya.A., red.; PRONINA, N.D., tekhn. red.

[Especially dangerous natural focus infections] Osobo opasnye i
prirodnoochagovye infektsii; sbornik nauchnykh rabot protivo-
chumnykh uchrezhdenii. Moskva, Medgiz, 1962. 271 p.
(MIRA 16:5)

(COMMUNICABLE DISEASES)

NIKOLAYEV, N.I.(Saratov), red.; FENYUK, B. .(Saratov), red.;
AKYEV, A.K.(Saratov), red.; LENSK YA, G.M., red.;
ISHUNINA, T.I., red.; PARNES, Ya.A , red.

[Epidemiology and epizootiology of especially dangerous
infections] Epidemiologia i epizootologia osobo opasnykh
infektsii; sbornik nauchnykh rabot protivochumnykh uch-
rezhdenii. Moskva, Meditsina, 1975. 415 p.
(MIRA 18:4)

TITLE: In vitro selection of virulent *P. pestis* variants with vaccinal properties

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 6, 1965, 64-69

TOPIC TAGS: plague vaccination, plague, *Pasteurella pestis*

ABSTRACT: The first step in obtaining subcultures of *Pasteurella pestis* with vaccinal properties is to select variants with weakened virulence.

PURPOSE: This criterion indicates only a weakening of virulence; it tells nothing about the degree of virulence needed for development of the vaccinal process. Additional means for selection of variants are suggested.

4-10-64

4 HR APR 10 1964

virulence; they are avirulent to mice (in a dose of 1×10^8) but their virulence is restored when administered with a dose of 1×10^8 of their parent strain (pigment formation and without restoration of virulence). In a dose of 1×10^8 these bacteria should produce immunity in guinea pigs and in guinea pigs infected with a dose of 1×10^8 of their parent strain.

ASSOCIATION: Vsesoyuzny nauchno-issledovatel'skiy prikladnyy Institut Mikrobiologii (Microbe) All-Union Scientific Research Institute

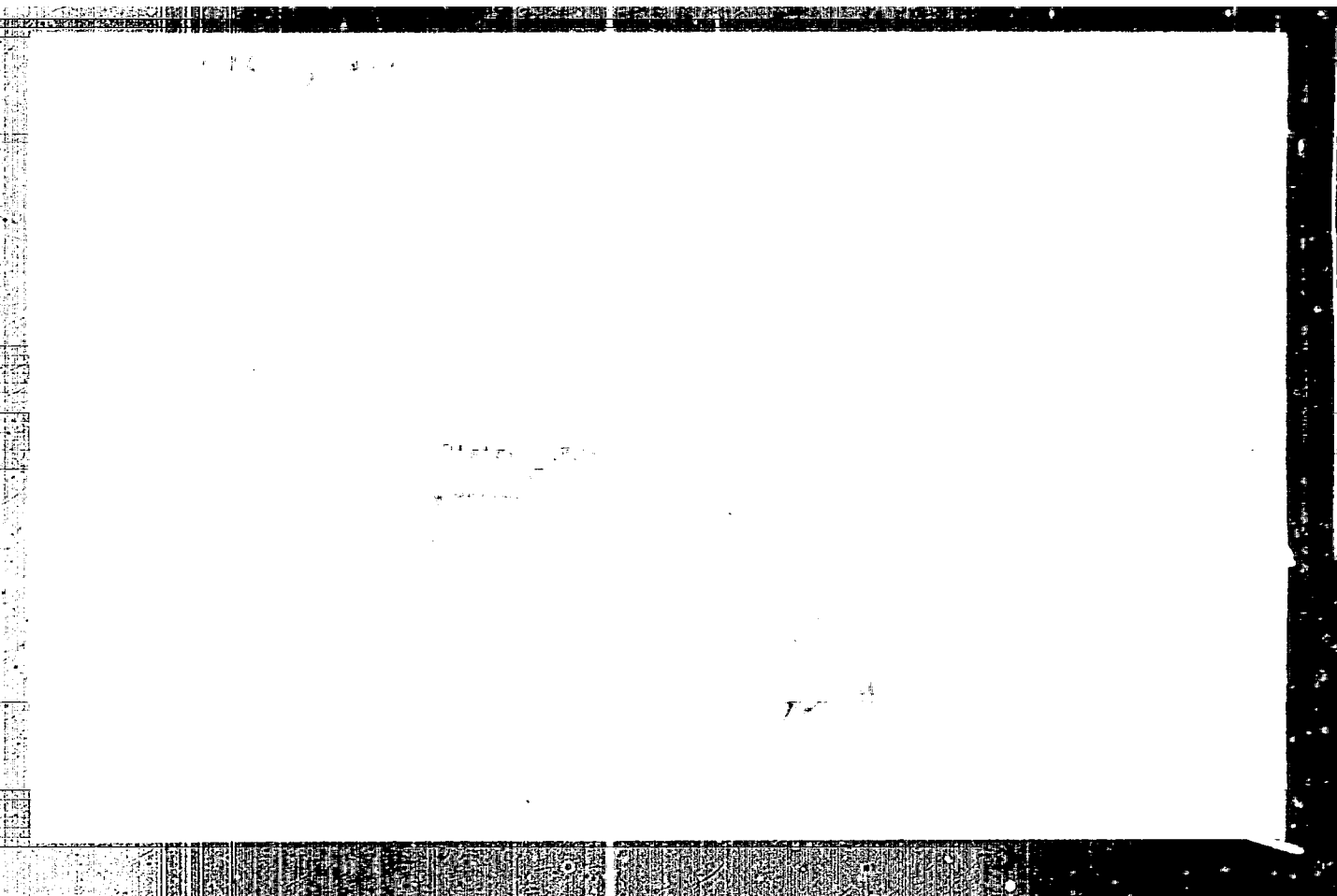
19 May 64

19 May 64

19 May 64

RE: SOV: 001

OTHER: 002



GRIGORIYEV, I.S., Kapitán 2-go ranga; NIKOLAYEV, N.K., polpolkovnik

The training and conducting of amphibious operations. Mor.
zbor. 47 no.4:81-88 Ap '64. (MIRA 18:7)

NIKOLAYEV, Nikolay Leonidovich; GUSEL'NIKOV, I.I., otvetstvennyy redaktor;
KOROVENKOVA, Z.A., tekhnicheskiy redaktor

[Mine geology of coal deposits] *Shakhtnaya geologiya ugol'nykh
mestorozhdenii. Moskva, Ugletekhnisdat, 1956. 170 p. (MLRA 9:11)*
(Coal geology)

MARINE, U.S., Captain 1-go rank; NIKOLAYEV, N.K., podpolkovnik

The Atlantic Fleet of the U.S.A. Nav. star. 49 no. 1102-88
N 66. (NIA 1802)

KOVALENKO, P.P. (Rostov-na-Donu, ul. Ingul'skaya, d.50, kv.60); MELIKAYEV, N.M.;
ANISIMOVA, A.T. (Rostov-na-Donu)

Single-stage bilateral rhinococotomy on the lungs. Grad. kniz.
6 no.5:113-114 S-O '64. (MIRA 1814)

NIKOLAYEV, N.N.; GOL'BERG, N.V.

Continuous production of cotton hosiery. Leg.prom.15 [i.e.16]
no.3:16-19 Nr '56. (MLRA 9:7)
(Hosiery industry)

25(1)

PHASE I BOOK EXPLOITATION SOV/2446

Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii

Title: Izgotovleniye izdeliy metodami poroshkovoy metallurgii (The Manufacture of Products by the Methods of Powder Metallurgy) Moscow, Filial Vsesoyuznogo instituta nauchnoy i tekhnicheskoy informatsii, 1957. 23 p. (Series: Peredovoy nauchno-tekhnicheskoy i proizvodstvennoy opyt. Tema 4, No. M-57-320/3) 1,400 copies printed.

Ed.: A. N. Malov, Candidate of Technical Sciences; Exec. Ed.: L. Ye. Shobik, Engineer; Tech. Ed.: T. M. Sorokina.

PURPOSE: This booklet is intended for specialists in the field of powder metallurgy.

COVERAGE: The three articles in this brief collection deal with several aspects of the manufacture of sintered-metal and cemented-carbide products. The first article is concerned with the effect of various factors (chemical composition, surface treatment, carbide grain size, and temperature) on the fatigue
Card 1/3

IRELAYEV, N.R., PINKHANE, N. S., SIBIRKIN, G. V., STAVITSKIY, Y. Y.,
TALNIKOV, D. A., URBADZHIY, F. I., URASOV, L. I., LYUBINSKIY, A. I.,
KALASHNIKOVSKIY, D. D., AGALOV, A. I., KUKHARENKO, Y. A., ANTONOV, N. I.,
BONDARENKO, I. I., KRASHINSKIY, N. V., MOROZOV, V. N.,

Physical characteristics of the Ir.-5 reactor

report submitted for the IAEA Seminar on the Physics of Fast and Intermediate
Reactors, Vienna, 3-11 August 1961
(report presented by G. I. Marchuk)

Acad. Sci. USSR, Moscow

XXXXXXXXXX, XXXX

Nikol'sev, N. M. - "Porozhki i lety (fil'tery) i naibol'shie usloviya funktsionirovaniya tankovoy obratki," Sbornik nauchnykh i inzh. in-ta Mosk. sovetsk. Issue 2, 1948. . 117-19

SO: U-3600, 10 July 53, (Leto is 'Zhurnal Inzh. Stroy. No. 6, 1949).

ALL INFORMATION CONTAINED

NIKOLAYEV, E.V., dotsent, kandidat tekhnicheskikh nauk.

Calculation of air filters allowing for sedimentation. Trudy
Stroi. inst. Mologorispolkhom no.4:127-132 '53. (MIRA 8:3)
(Water—Aeration)

NIKOLAINI, Nikolay Nikolayevich; KOGAN, A.S., red.; RACHIVKAYA, M.I.,
red.is4-va; SALANOV, N.P., tekhn.red.

[Technical and economic principles of the design of purification
works for urban sewerage systems] Tekhniko-ekonomicheskie osnovy
proektirovaniya ochistnykh sooruzhenii gorodskikh kanalizatsii.
Moskva, Izd-vo M-va kommun.khoz.HOZSTB, 1959. 133 p. (MIRA 13:3)
(Sewage disposal plants)

NIKOLAYEV, N. N.

Modernized respirator. Okhr. truda i zots. strakh. 4 no.8:37
Ag '61. (MIRA 14:11)

(Air—Purification)

NIKOLAYEV, N.O. (Moskva)

Use of pyramidon and phenacetine in the postoperative stage in thyrotoxicosis. Probl. endok. i gorm. 2 no.1:20-26 Ja-P '56.

(NLR 9:10)

1. in Gosptital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta (dir. - prof. V.B.Salishchev)

(HYPERTHYROIDISM, surgery,

postop.care, aminopyrine & acetophenetidin ther. (Rus))

(AMINOPYRINE, therapeutic use,

hyperthyroidism, in postop.care (Rus))

(ACETOPHENETIDIN, therapeutic use,

same)

(POSTOPERATIVE CARE, in various diseases,

hyperthyroidism, acetophenetidin & aminopyrine (Rus))

NIKOLAYEV, N.O.

Treatment of a pancreatic cyst. *Khirurgia* 32 no.2:61-62 P '56.
(MLA 9:7)

1. In gosital'noy khirurgicheskoy kliniki I Moskvskego ordena
Lenina meditsinskogo instituta (dir. - prof. V.B.Salishchev)
(PAPREAS, cyste
ther.)
(CYSTS
pancreas, ther.)

PETKOVSKIY, B.V., prof.; BABICHEV, S.I., doc.; NIKOLAYEV, N.O.

Alloplasty with polyvinyl alcohol prosthesis in recurrent inguinal hernia.
Khirurgiya 34 no.12:26-31 D '58. (MIRA 12:1)

1. In kafedry gosital'noy khirurgii I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M. Sechenova.

(INGUINAL HERNIA, surg.)

alloplasty using polyvinyl prosth. (Ris))

(VINYL COMPOUNDS

polyvinyl prosth. in inguinal hernia alloplasty (Ris))

NIKOLAYEV, N.O.

Results of surgical treatment of relaxation of the diaphragm.
Khirurgia 36 no.9:104-111 8 '60. (MIRA 13:11)

1. In gosital'noy khirurgicheskoy kliniki (nav. - deystvitel'-
nyy chlan ANU SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M. Sechenova.
(REAPPEARANCE--ASSOCIATIONS AND DISPOSITIONS)

PETROVSKIY, B. V., prof.; NIKOLAYEV, N. O.

Diagnosis and treatment of tumors of the diaphragm. Khirurgiya
38 no.7:25-30 J1 '62. (MIRA 15:7)

1. Is kafedry gosital'noy khirurgii I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I. M. Sechenova.

(DIAPHRAGM--TUMORS)

NIKOLAYEV, N.P., inzh.; KUMOFYATNIK, G.P., inzh.; SHEKINER, A.A., inzh.

A useful book. *Tranzp. stroi.* 10 no.4:59 Ap '60. (MIRA 13:9)
(Building machinery--Maintenance and repair)

BOVE, Ye.O., kand. tekhn. nauk; KHATKEVICH, G.N., inzh.;
DANILOV, V.I., inzh.; ZEL'VYANSKIY, Ya.A.; NIKUSHIN, A.I., inzh.;
NIKOLAYEV, N.S., inzh.

Replies to the inquiries of our readers. Elek. i topl. tiaga
no.5:34-36 My '63. (MIRA 16:8)

1. Starshiy inzh. Glavnogo upravleniya elektrifikatsii i
energeticheskogo khesyaystva Ministerstva putey soobshcheniya
(for Zel'vyanskiy).
(Diesel locomotives) (Electric railroads)

NIKOLAEV, N. G. Engineer

"Specialized Grid Electric Simulator of the EI-S Type" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

HEMILAYEV, N. N., Engineer

"Use of Computation Techniques in Railroad Transport" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

✓ К ВОПРОСУ О ПРИКЛЮЧЕНИИ К ВОПРОСУ
ДИФФЕРЕНЦИАЛЬНЫХ УРАВНЕНИЙ ЧАСТ-
НОГО ПРОИЗВОДНЫХ ПРИ ПОМОЩИ ИЛИ
ТЕОРИИ ИСКЛЮЧЕНИЯ. К. С. Косов, 1964 г.
Математический институт им. Степановича, Уфа
1964 г. 100 стр. (1964) Study of the prob-
lem of differential equations of partial
derivatives in the theory of the com-
pactness of the system of the con-
tinuity and the unity

2

NIKOLAYEV, N.S.

The EL-8 continuous electronic calculators. Bul. tekhn.-eksp. inform.
no.3:8-10 '98. (NIRA 11:6)
(Electronic calculating machines)

M. K. LAYEN, A.

1957-1958

Abstracts with Bibliography-1957-1958

- **Procy S. Laidov** *Summaries of mathematical and physical sciences* (Outline of Reports of the Conference on Computational Mathematics and the Use of Computer Techniques) **1957, 1958**. 53 p. 500 copies printed.
- Additional Sponsoring Agencies:** *Mathematics and Physics*. *Mathematical Physics*, and *Abstracts and Reviews*. *Mathematical Sciences* and *Mathematics*.
- No contributors mentioned.**
- PURPOSE:** This book is intended for pure and applied mathematicians, scientists, engineers and scientific workers, those who involve computers and the use of digital and analog electronic computers.
- SCOPE/IN:** This book contains summaries of reports made at the Conference on Computational Mathematics and the Application of Computer Techniques. The book is divided into two main parts. The first part is devoted to computational mathematics and contains 19 summaries of reports. The second section is devoted to computing techniques and contains 10 summaries of reports. No personalities are mentioned. No references are given.

Smith, W.A. On the Solution of a Liquid in Submergence State	50
Shubert, W.A. System of Instructions for a Universal Digital Computer with Storage (Review) (Summary and Use of Reports)	50
Shubert, W.A. The Mechanically Operating Mathematical Machine for the Solution of Mathematical Physics Problems	50
Shubert, W.A. Application of Mathematical Machines for the Solution of a Number of Scientific and Engineering Problems of Previous Publications (Summary Reports)	50
Smith, W.A. Application of Electronic Digital Computers to National Economic Planning	50
Shubert, W.A. Operational Aspects of the M-20 and M-20-2 Analog Devices and Certain Possibilities for Increasing the Number of Problems They Are Able to Solve	50
Shubert, W.A. On the Structure of the Solution of a Finite-Difference System, Which Approximates the Poisson Equation, on Electronic Grids	50

End of 1/7

SOV/93-58-8-11/15

AUTHOR: Belash, P., Goflin, A. L., and Nikolayev, N. S.

TITLE: A Unique Electrical Integrator for Studying Oilfield Development Processes (Unikal'nyy elektroiintegrator dlya issledovaniya protsessov razrabotki neftyanykh mestorozhdeniy)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 8, pp. 53-60 (USSR)

ABSTRACT: The article presents detailed data on the design and operation of the EI-S electrical integrator which is to be used in studying oilfield formations. The requirements of an electrical integrator have been established by the Neftyanoy institut imeni akademika I. M. Gubkina (Petroleum Institute imeni Academician I. M. Gubkin) on the basis of its long experience with electrical models. P. M. Belash, L. I. Biryukova, A. L. Goflin, Yu. V. Knigavko, E. S. Kozlov, M. I. Maksimov, B. A. Matkin, N. S. Nikolayev,

Card 1/3

A Unique Electrical Integrator (Cont.)

SOV/93-58-8-11/15

P. V. Pekorin, A. P. Pekrovskiy, Ye. B. Rasskazov, and N. G. Sazonov of the Vsesoyuznyy nefte-gazovyy nauchno-issledovatel'skiy institut (All-Union Oil and Gas Scientific Research Institute), the konstruktorskoye byuro (Bureau of Design), and of the zavod schetno-analiticheskikh mashin (Calculating and Analyzing Machine Plant) took a leading part in the development, construction, and mastery of the EI-S integrator. The integrator consists of seven blocks interconnected by a special wiring system. Fig. 1 gives a general view of this unit and Fig. 2 shows the scheme of the individual blocks. The principle of action of blocks 1 and 2 is based on Darcy's law of filtration and Ohm's law of electric conduction. These blocks contain up to 20,000 grid nodes capable of handling 60,000 numerical values of oilfield formation characteristics. The control and outlets of 750 channels (wells), assigned to the study of boundary conditions, are located in block 3. The electronic control and the PDV - programnyy delitel' vremeni

Card 2/3

A Unique Electrical Integrator (Cont.)

SOV/93-58-8-11/15

(program time divider) are located in block 4. One cell of the electronic control is shown in Fig. 3. Block 5 of the integrator is designed to transform the functions, and block 6 is assigned to the study of BNU - nachal'nyye usloviya (initial conditions). Block 7 contains the feed units, the transformers, rectifiers, and stabilizers. Isobar maps are produced during the study of the oilfield formations. Fig. 4 shows an isobar map based on field data obtained from the electrical integrator. Fig. 5 shows a pressure variation curve photographed by the electrical integrator. The authors conclude that the new electrical integrator will make it possible to solve the problems of developing large oilfields. There are 5 figures.

1. Petroleum industry--Development 2. Electronic integrators
--Design 3. Electronic integrators--Performance

Card 3/3

~~SECRET~~ ~~U.S.~~ ~~Inst.~~

Automatic train control with the aid of calculating machines.
Blk. 1 topl. tiaga 2 no.10:17-19 0 '58. (MIRA 11:11)
(Railroads—automatic train control) (Electronic calculating machines)

ORLOV, A.P., kand.tekhn.nauk; NIKOLAYEV, N.S., inzh.; KARYUKIN, S.Ye.,
inzh.

Electronic analog computers for designing hump yards. Zhel.dor.
transp. No. 8:55-56 Ag '59. (MIRA 12:12)
(Electronic analog computers)
(Railroads--hump yards)

S/194/61/000/009/013/053
D222/D302

9,7200

AUTHORS: Morozov, M.A. and Nikolayev, N.S.

TITLE: Electronic analogue computer for traction calculations

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1961, 17, abstract 9 B115 (V sb. Kibernetika i avtomatiz. trasp. protsessov, M., Transzheldorizdat, 1960, 233-245)

TEXT: An analogue computer ATP -1 (ATR-1) is described which has been developed by the NII control VM, Mosgiprotrans and MPS to facilitate and accelerate traction calculations. The principle of mathematical analogues was used in the construction. The number of variables that can be represented in the model is practically unlimited. The general form, block-schematic diagram, circuit diagrams of the units, the method of setting up problems and solving them are given. 7 figures. 5 references. [Abstracter's note: Complete translation.]

Card 1/1

✓
②

S/194/6*/000/012/023/097
D201/D303

AUTHOR: Nikolayev, N. S.
TITLE: New analogue computers for problems of mathematical physics
PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 13, abstract 12B.4 (Tr Vses. soveshchaniya po vychisl. matem. i primeneniyu sredstv vychisl. tekhn. Baku, AN Azerb SSR, 1961, 200-215)

TEXT: Grid analogues, permitting a solution of equations of mathematical physics, are considered. The equations are of the Laplace, Poisson, Fourier and of bi-harmonic types, to which problems in determining the hydrodynamics of crude oil strata, the analysis of elastic and thermal properties of dams, walls and other structures are reduced. The problems of subterranean hydraulics are described, as related to locating of oil deposits. The pressure distribution in a shaft, under the effect of water pressure, corresponds to the Fourier equation. Solution of the above equations makes it possible

Card 1/3

NIKOLAYEV, N.S.; KOZLOV, E.S.; POLODODNIK, N.P.; VITENBERG, I.M.,
Izd. tekhn. nauk, reprints; VOSKRESENSKIY, N.N., inzh., red.;
BUBENVA, G.V., tekhn. red.; GORDUYEVA, L.P., tekhn. red.

[The USM-1 analog computer for solving boundary value problems of
equations in mathematical physics]Analogovaya matematicheskaya ma-
shina USM-1; dlia resheniia kraevykh zadach uravnenii matematiches-
koi fiziki. Moskva, Mashin, 1962. 293 p. (MIRA 15:12)
(Analog computers)

NIKOLAJEV, N.S. [Nikolayev, N.S.] (Moskva); EPSTEIN, V.L. [Epshteyn, V.L.]
(Moskva)

Automatic control of making and cutting the rolled products
by means of digital control computers. Hut listy 17 no.5:349-353
My '62.

