"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVICH, YU. M.

Electrochemistry

Dissertation: "The Kinetics of Nickel-Plating." Cand Chem Sci, Moscow Chemicotechnological Inst, Moscow, 1953. (Referativnyy Zhurnal--Khimiya, Moscow, No 3, Feb 54)

SO: SUM 213, 20 Sept 1954

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

[illegible]

USSR/[illegible]

Card

Authors

Title

Periodical : Zhur. fiz. khim. [illegible], [illegible] - 1126, June 1954

Abstract : New data on the electrolytic nickel-plating of metal surfaces, are [illegible]

Submitted [illegible]

[illegible]

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURTEVICH, YU. N.

USSR/Physical Chemistry. Electrochemistry. B-12

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22499.

Authors : S. V. Gorbachev, Yurkevich, Yu. N.
Inst : Not given
Title : Polarization of Nickel Electric Crystallization from Solutions $NiCl_2$ in Aqueous-Alcoholic Mixtures.

Orig Pub : Zh. fiz. khimii, 1956, 30, No 4, 922-927.

Abstract : By method described before (RZh Khim.,1955,7221), at the temperature range of 20-90°, the kinetics of cathodic processes on Ni-electrode in glycol, aqueous-glycol, aqueous glycerin, and aqueous glucose solutions of 0.1 Ml $NiCl_2$ and 0.1 Ml KCl were studied. On the basis of polarization curves (PC) (I,ΔE) analysis, some peculiarities of studied cathodic processes are noted namely: presence of maximum currents in $NiCl_2$ glycol solutions; analogy of hydrogen producing kinetics in aqueous and aqueous-glycol solutions containing KCl; the complex character of polarization potential ΔE dependence on glycol or glycerin contents in $NiCl_2$ aqueous-alcoholic solutions, ΔE for aqueous-glycerin colutions at all temperatures grows at first with the

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVICH, YU. N.

USSR/Physical Chemistry. Electrochemistry. B-12

Abs Jour : Ref Zhur - Khimiya, No 7,1957, 22498.

Author : S. V. Gorbachev, Yu. N. Yurkovich.
Inst : Not given
Title : Combination of concentration, chemical and phase polarisations

Orig Pub : Zh. fiz. khimii, 1956, 30, No 8, 1880-1882.

Abstract : In development of works published before (Gorbachev S. V. Zh. fiz. khimii, 1950, 20. 888, 1952, 26, 1303) an equation is offered, which, in opinion of authors, is applicable for the description of electric crystallization of metal kinetics in conditions of a combination of concentrations of chemical and phase polarization.

Card 1/1 -168-

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVICH, YU. N.

5(2); 21(5) PHASE I BOOK EXPLOITATION SOV/1900

Akademiya nauk SSSR. Komissiya po analiticheskoy khimii

Primeneniye radioaktivnykh izotopov v analiticheskoy khimii (Use of Radioactive Isotopes in Analytical Chemistry) Moscow Izd-vo An SSSR, 1958. 366 p. [Series: Its: Trudy, t. 9 (12)] Errata slip inserted. 3,000 copies printed.

Resp. Ed.: I.P. Alimarin, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: A.N. Yermakov; Tech. Ed.: T.V. Polyakova.

PURPOSE: The book is intended for chemists and chemical engineers concerned with work in analytical chemistry.

COVERAGE: The book is a collection of the principal papers presented in Moscow at the Second Conference on the Use of Radioactive Isotopes. The problems discussed at the Conference included coprecipitation, aging, and solubility of precipitates, determination of the instability constants

Card 1/10

of complex compounds, separation of rare earth metals, and ion-exchange chromatography. No personalities are mentioned. There are 301 references, 175 of which are Soviet, 33 German, 19 French, 8 Swedish, 2 Hungarian, and 2 Czech.

TABLE OF CONTENTS:

Use of Radioactive Isotopes (Cont.) SOV/1900

Yurkevich, Yu. N., and G.G. Besprozvannov. Quantitative Determination of an Element by Its Known Added Quantity with the Aid of a Tagged Reagent 226

Zimakov, I. Ye., and G.S. Rozhavskiy. Method of Multiple Radioactive Dilution for the Determination of Small Quantities of Admixtures 231

Gaydadymov, V.B., and L.I. Il'ina. Analysis of Tantalumniobium Binary Alloys by the β-radiation Reflection (Reverse Scattering) Method 240

Irving, G. Determination of Indium by the Radioactivation Method 249

Starik, I. Ye., F. Ye. Starik, and A.N. Appollonova. The Carbonate Method for Separation of Microquantities of Uranium from Iron 264

Card 7/10

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVICH, Yu. N.

YURKEVICH, Yu.N.; BESPROSKURNOV, G.G.

"Tagged reagent technique for quantitative determination of element according to known additions." Trudy kom.anal.khim. 9:226-230 '58. (MIRA 11:11)

(Chemistry, Analytical--Quantitative)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/137/61/000/011/111/123
A060/A101

AUTHORS: Shcherbakov, B. G., Yurkevich, Yu. N., Antonova, R. A.

TITLE: Determination of copper and zinc in molybdenum concentrate

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 2, abstract 11K6 ("Sb. tr. Vses. n.-i. in-t tverdykh splavov", 1960, no. 3, 31 - 36)

TEXT: A polarographic method utilizing alkali background is proposed for determining Cu and Zn in Mo-concentrate. 0.5 g of the concentrate is decomposed in concentrated HNO_3, is converted into sulfates by vaporization with H_2SO_4 (1:1) to SO_3 vapors. The contents of the retort are diluted with water and the hydroxides of Fe and Cu are precipitated by a 20% solution of NaOH. The hydroxide precipitate is dissolved and reprecipitated, collecting the filtrates into a measuring flask. The quantity of alkali in the solution should be about 1 normal. 0.5 - 1.0 g of citric acid is added to the solution, the mixture is brought up to the mark and the Zn is determined by the method of additions. The hydroxides of Fe and Cu are dissolved in HCl (1:1) and the Fe is separated by NH_4OH, collecting the filtrate into a 100-ml flask. To the solution one adds 10 ml HCl, neutralizes with NH_4OH the Congo indicator, adding an excess of 10 ml NH_4OH. The Cu is deter-

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/137/61/000/011/111/123
A060/A101

Determination of copper and...

mined by the method of additions. The polarographing of Zn is carried on from 1.05 v, and that of Cu from 0.18 v.

B. Melent'yev

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

FUNKE, V.F.; SHURSHAKOV, A.H.; YUDKOVSKIY, S.I.; KUZNETSOVA, K.F.; SHULEPOV, V.I.; YURKEVICH, Yu.N.

Electric resistance and structure of WC-Co alloys. Fiz. met. i metalloved. 10 no.2:207-215 Ag '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov.
(Tungsten carbide) (Cobalt-tungsten alloys—Metallography)
(Electric resistance)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVICH, YU.N.

14

PHASE I BOOK EXPLOITATION SOV/5994

Akademiya nauk Ukrainskoy SSR. Institut metallokeramiki i spetsial'nykh splavov. Seminar po zharostoykim materialam. Kiyev, 1960.

Trudy Seminara po zharostoykim materialam, 19-21 aprelya 1960 g. Byulleten' no. 6: Khimicheskiye svoystva i metody analiza tugoplavkikh soyedineniy (Transactions of the Seminar on Heat-Resistant Materials of the Institute of Powder Metallurgy and Special Alloys of the Academy of Sciences of the Ukrainian SSR. Held 19-21 April, 1960. Bulletin no. 6: Chemical Properties and Methods of Refractory Compound Analysis). Kiyev, Izd-vo AN UkrSSR, 1961. 124 p. 1500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut metallokeramiki i spetsial'nykh splavov.

Editorial Board: I. N. Frantsevich; G. V. Samsonov, Resp. Ed.; I. M. Fedorchenko, V. N. Yeremenko, V. V. Grigor'yeva, and T. N. Nazarchuk; Tech. Ed.: A. A. Matveychuk.

Card 1/5

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

14

Transactions of the Seminar (Cont.) SOV/5994

PURPOSE: This collection of articles is intended for chemists, engineers, workers at scientific research institutes and plant laboratories, senior students, and aspirants at chemical and metallurgical schools of higher education.

COVERAGE: Articles of the collection present the results of studies of the chemical properties of refractory compounds (carbides, borides, nitrides, phosphorides, silicides), refractory and rare metals, and their alloys, and some original methods of analyzing these materials, which are now being utilized in the new fields of engineering. No personalities are mentioned. Each article is accompanied by references, mostly Soviet.

TABLE OF CONTENTS:

Foreword 3

Samsonov, G. V. Refractory Compounds, Their Properties, Pro-

Card 2/5

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

Kosolapova, T. Ya., L. N. Kugay, K. D. Modylevskaya, S. V. Radzikovskaya, and O. G. Seraya. Chemical Properties and Methods of Analyzing Some Silicides 69

Samsonov, G. V., L. O. Vereykina, and O. I. Eopova. Investigation of the Chemical Stability of Titanium-Phosphorous and Chromium-Phosphorus Alloys and Methods of Their Chemical Analysis 75

Klyachko, Yu. A., M. M. Shapiro, and Ye. F. Yakovleva. Extraction of Phase Components From Nickel-Base Alloys and Modern Methods of Their Chemical Analysis 80

Shcherbakov, V. G., and Z. K. Stegendo. Determination of Titanium, Tantalum, and Niobium in Carbide Mixtures 88

Kotlyar, Ye. Ye., and T. N. Nazarchuk. On the Analysis of Titanium-Carbide Alloys With Various Metals 93

Yurkevich, Yu. N., and V. G. Shcherbakov. Method of Determining Oxygen in Titanium Carbide 101

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/081/62/000/022/011/088
B177/B186

AUTHORS: Yurkevich, Yu. N., Shcherbakov, V. G.

TITLE: Method of determining oxygen in titanium carbide

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 125-126, abstract 22D83 (Byul. In-t metallokeram. i spets. splavov AN USSR, no. 6, 1961, 101-108)

TEXT: From a study of the reaction $TiO_2 + 3C \rightarrow TiC + 2CO$ at temperatures of 1180-1950°C, it is established that a quantitative reduction of TiO_2 is obtained with continuous exhaustion of the system to a vacuum of $1\text{-}2\cdot10^{-5}$ mm Hg at 1800-1850°C. A method is proposed on this basis for determining O in titanium carbide. A specimen with added carbon black is mixed in a mortar and a sample of the mixture is taken in a graphite cartridge. The furnace is degassed to a vacuum of $1\text{-}2\cdot10^{-5}$ mm Hg at $t > 2000°C$, the temperature is then reduced to the working level ($\sim 1800°C$), the corrections are determined for the uncharged apparatus, and the cartridge with the sample is dropped into the furnace. The evolved gases are collected, passed to a gas analyzer and the O content

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

Method of determining oxygen ... S/081/62/000/022/011/088
B177/B186

is determined. The value for a blank experiment is subtracted from the results obtained (obtained in the analysis of the carbon black).
[Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVICH, Yu.N.; SHCHERBAKOV, V.G.

Determination of small amounts of sulfur in tungsten and molybdenum. Zhur.anal.khim. 16 no.5:617-619 S-O '61. (MIRA 14:9)

1. All-Union Scientific Research Institute of Hard Alloys, Moscow. (Sulfur--Analysis) (Tungsten--Analysis) (Molybdenum--Analysis)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

SHAPIRO, K.Ya.; YURKEVICH, Yu.N.; SKOROV, V.A.

Treatment of intermediate molybdenum products for ammonium molybdate used in agriculture. TSvet. met. 35 no.9:67-70 S '62. (MIRA 16:1)

(Ammonium molybdate)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

SHAPIRO, K.Ya.; YURKEVICH, Yu.N.

Ferromolybdate ($FeMoO_4$). Zhur. prikl. khim. 36 no.12:2584-2587 D'63. (MIRA 17:2)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

SHAPIRO, K.Ya.; YURKEVICH, Yu.N.; KULAKOVA, V.V.

System Na_2HO_4 - NH_4Cl - HCl - H_2O at 25°C and pH 7,0. Zhur.neorg. khim. 10 no.4:961-964 Ap '65. (MIRA 18:6)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

SHAPIRO, K.Ya.; YURKEVICH, Yu.N.; KULAKOVA, V.V.

Solubility in the system ammonium paratungstate ammonium chloride-water at 25°C. Zhur. neorg. khim. 10 no.2:555-557 F '65. (MIRA 18:11)

1. Submitted Nov. 18, 1963.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVICH, Yu.N.; SHAPIRO, K.Ya.; SVIRIDOVSKAYA, R.M.

Acid processing of wolframite concentrates. Zhur. prikl. khim. 37 no.10:2112-2120 O '64. (MIRA 17:11)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

ZAKHARENKO, I.P., kand. tekhn. nauk; FEDOSEYEV, L.A.; YURKEVICH, Yu.V.

Machining glass-reinforced plastics with hard-alloy tools.
Mashinostroitel' no. 1:29 Ja '66 (MIRA 19:1)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURIEVSKIY, S.V.

KHALILOV, Agaoglan Aga Nagi ogly; YURIEVSKIY, S.V., prof., red.; SHTEYNGEL', A.S., red.izd-va

[New pipe wrenches for underground repair of oil wells] Novye trubnye kliuchi dlia podzemnogo remonta neftianykh skvazhin. Baku, Azerbaidzhanskoe gos. izd-vo neft. i nauchno-tekhn. lit-ry, 1957. 108 p. (MIRA 11:4)

(Oil wells--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVSKIY, S. V.

YURKEVSKIY, S. V. -- "THEORY OF THE THERMODYNAMIC DESIGN OF PISTON COMPRESSORS." SUB 20 MAR 52, POWER ENGINEERING INST IMENI G. M. KRZHIZHANOVSKIY, ACAD SCI USSR (DISSERTATION FOR THE DEGREE OF DOCTOR IN TECHNIAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

Yurkevskiy, S. V.

124-1957-10-11470

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 42 (USSR)

AUTHOR: Yurkevskiy, S. V.

TITLE: To the Determination of the Delivery Coefficient of a Reciprocating Compressor (K voprosu opredeleniya koeffitsiyenta podachi porshnevogo kompressora)

PERIODICAL: Tr. Azerb. n.-i. in-t neft. mashinostr., 1956, Nr 1, pp 143-155

ABSTRACT: An analysis of the working process of the reciprocating compressor is presented. Several recommendations are offered relative to the evaluation of factors that impair the compressor delivery, such as a decrease in pressure and an increase in air temperature at the compressor intake. Recommendations relative to air heating are based on experiments with a series of industrial compressors.

G. A. Varshavskiy

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

DANIYELYANTS, Armais Avakovich; YURKEVISKIY, S.V., prof., doktor tekhn. nauk, red.; AL'TMAN, T.B., red.izd-va

[Studying the loading in repairing directional wells during hoisting operations] Issledovanie nagruzok pri remonte naklonnykh skvazhin; v protsesse spusko-pod"emnykh operatsii. Baku, Azerbaidzhanskoe gos.izd-vo neft. i nauchno-tekhn.lit-ry, 1959. 77 p. (MIRA 13:3)

(Hoisting machinery)
(Oil wells--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

ALIVERDIZADE, K.S.; DANIYELYAN, A.A.; DOKUMENTOV, V.I.; IBATULOV, A.K.; PAKHLAVUNI, V.O. [deceased]; CHICHEROV, L.G.; YURKEVSKIY, S.V.; GOR'KOVA, A.A., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Calculations and designs of equipment for the exploitation of oil wells] Raschet i konstruirovanie oborudovaniia dlia ekspluatatsii neftianykh skvazhin. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 560 p. (MIRA 12:6)
(Oil wells--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKEVSKIY, S.V.

11(4) PHASE I BOOK EXPLOITATION SOV/2476

Aliverdizade, K.S., A.A. Demiyelyan, V. I. Dokumentov, A.K. Ibatulov, V.O. Pakhlavuni (Deceased), L.G. Chicherov, and S.V. Yurkevskiy

Raschet i konstruirovaniye oborudovaniya dlya ekspluatatsii neftyanykh skvazhin (Design and Construction of Equipment for Oil Well Exploitation) Moscow, Gostoptekhizdat, 1959. 652 p. Errata slip inserted. 3,500 copies printed.

Exec. Ed.: A.A. Gor'kova; Tech. Ed.: N.A. Mukhina.

PURPOSE: This book is intended for engineers and technicians of oilfields, machine-building and repair plants, and scientific research institutes. It may also be useful to students of petroleum vuzes and departments.

COVERAGE: The authors discuss calculation and design principles of equipment used in oil well operation. In some instances the design of production equipment is also discussed. No personalities are mentioned. There are 66 references, all Soviet.

Design and Construction of Equipment (Cont.) SOV/2476

TABLE OF CONTENTS:

Ch. 1. Equipment for Extracting Petroleum by the Flowing-well Method 3
1. Accessory equipment for flowing wells 3
2. Tubing head 9
3. Main parts and subassemblies of accessory equipment for flowing wells 10
4. Calculation and design of accessory equipment for flowing wells 11
5. Basic trends in the development and improvement of the design of accessory equipment for flowing wells 23

Ch. 2. Equipment for Extracting Petroleum by the Compressor Method, and Equipment for Gas Injection for Maintenance and Restoration of Formational Pressure 27
1. Use of compressors in oilfields 27
2. Main types of oilfield compressors 30
3. Designing oilfield compressors 68
4. Theoretical principles and thermodynamic calculation of the piston compressor 77
5. Design and calculation of the basic parts of a compressor 94
6. Design and calculation for auxiliary equipment 121
7. Foundations for oilfield compressors 134

Card 2/4

Ch. 3. Equipment for Extracting Petroleum by the Deep-well Pump Method 139
1. Drives for deep-well pumps 142
2. Deep-well rod pumps 244
3. Submersible rodless pumps 282

Ch. 4. Equipment and Tools for Subsurface Repair of Wells 334
1. Hoists 334
2. Flushing assemblies 329
3. Power equipment 398
4. Lowering and lifting equipment and tools 398
5. Drilling derricks and masts 419
6. Drilling tools 431

Ch. 5. Equipment for Well Sealing, and for Gathering, Storing, and Transporting Petroleum and Gas 455
1. Equipment for gathering petroleum and gas 455
2. Equipment for storing petroleum at field gathering stations and tank farms 466
3. Pumps 485

Design and Construction of Equipment (Cont.) SOV/2476

Ch. 6. Equipment for Hydraulic Fracturing of Formations 543
1. Nature of hydraulic fracturing process and equipment used 543
2. Portable pump units 553
3. Sand-mixing units 553
4. Truck tanks 555
5. Packers 557
6. Equipment for well mouths 558

AVAILABLE: Library of Congress

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKHANOVA, D.Sh.

DUBROVSKIY, V.G.; YURKHANOVA, D.Sh.

Regular earth current variations during a solar day in the Ashkhabad area. Izv.AN Turk.SSR no.4:100-104 '57. (MIRA 10:10)

1. Institut fiziki i geofiziki AN Turkmenskoy SSR.
(Ashkhabad District--Terrestrial electricity)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

AKMAMEDOV, A.; KOLODIY, V.; KUZ'MIN, A.; YURKHAN'YAN, B., inzh., red.

[Turkmenian oil field waters, a valuable chemical raw material] Vody neftianykh mestorozhdenii Turkmenii - tsennoe khimicheskoe syr'e. Ashkhabad, Turkmengosizdat, 1963. 38 p. (MIRA 17:6)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

AUTHOR: Yurkin, A.V., Electrician SOV/91-58-3-7/28

TITLE: The Automatic Washing of Rotating Sieves (Avtomatizatsiya promyvki vrashchayushchikhsya setok) Exchange of Experience (Obmen opytom)

PERIODICAL: Energetik, 1958, Nr 3, pp 11-13 (USSR)

ABSTRACT: Two machine sets with rotating sieves have been installed to achieve mechanical filtration of the water used in waterside pump stations. Three men were needed to keep the sieves clean. Now the working process is automated and controlled by the personnel of the pump station itself. Automation was introduced in June 1956 and still works faultlessly. The author describes the automatic equipment, which operations are executed automatically, how the electric circuitry is installed, and how the whole system operates. The KEP-3 commanding electric equipment with time-constants between 12 minutes and 6 hours was used in the circuitry installation. There are 3 sets of circuit diagrams and 1 diagram.

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

PROKHOROVA, A.M., kand.tekhn.nauk; BULAVITSKIY, Yu.M., inzh.; YURKIN, D.S., inzh.

Shortcomings in the design of TKZ ion exchange filters and their correction. Elek. sta. 34 no.9:81-83 S '63. (MIRA 16:10)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

USSR/Farm Animals. General Problems. Q

Abs Jour: Ref Zhur-Biol., No 20, 1958, 92491.

Author : Yurkin, E.I.
Inst : Kirovsk Agricultural Institute.
Title : Histomorphological Changes in Pig Testis Tissue and in Spleen Tissue of Cattle Preserved in Cold Storage for Therapy according to the Method of V.P. Filatov, Member of the Academy.

Orig Pub: Tr. Kirovskogo s.-kh. in-ta, 1956, 11, No 23, 207-214.

Abstract: It was shown by the testes of 29 domestic pigs and spleens of 12 heads of cattle that preservation at a temperature of 2 to 4°C. for 5 days does not cause any morphological changes in these organs. After 6 to 11 days weak destructive changes were observed, which do not prevent, however, the implantation of these

Card : 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

8 (6) SOV/91-59-11-15/27

AUTHORS: Yurkin, E.V., Electrician, Shvetsov, M.S., Senior Electrician

TITLE: The Automatic Connection of the 380 Volt Reserve Power Supply

PERIODICAL: Energetik, 1959, Nr 11, pp 23-24 (USSR)

ABSTRACT: The authors describe a relay system used for connecting automatically the 380 volt reserve power supply for a pumping station. At the author's power plant, the pump motors work on 3 kv, but the electric motors operating the valves by remote controls work on 380 volts. In case of power failures an emergency power supply of 380 volts must be provided for operating the valves. According to the existing circuit arrangement, the 380-volt power supply is provided by two 3000/400 volt transformers which are connected to different buses of the auxiliary power supply system. In case one of the 3kv bus bars, or one of the transformers, will fail, the relay system will connect the other transformer. There is 1 circuit diagram.

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, E.V., elektroslesar'

Decrease in the potential on signaling lamps. Energetik 9 no.7: 24-25 Jl '61. (MIRA 14:9)

(Electric protection)
(Electric substations--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, I. A.

Prepare for the spring work in order to fulfill the obligations of Soviet farms to the State. Moskva, Sel'khozgiz, 1933. 19 p.

Yudin HD1306.I87

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

GORDINSKIY, Ya.; YURKIN, S.

Weed control in Siberia and Kazakhstan. Zemledelie 27 no.3:83-87 Mr '65. (MIRA 19:1)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, S.

Strengthen the measures for the control of suslikis. Zashch. rast. ot vred. i bol. 10 no.6:55-56 '65. (MIRA 18:7)

1. Uchenyy sekretar' Nauchno-tekhnicheskogo soveta Ministerstva sel'skogo khozyaystva SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, S.; KHIZHNYAK, P.; CHENKIN, A.; KUZNETSOVA, Ye.; SHAKHRAY, L.; KALASHNIKOV, K., kand. sel'skokhoz. nauk (Pushkin)

Meetings, conference and seminars. Zashch. rast. ot vred. i bol. 10 no.7:55-58 '65. (MIRA 18:10)

1. Uchenyy sekretar' Nauchno-tekhnicheskogo soveta Ministerstva sel'skogo khozyaystva SSSR (for Yurkin). 2. Zamestitel' nachal'nika Upravleniya zashchity rasteniy Ministerstva sel'skogo khozyaystva RSFSR (for Chenkin). 3. Zaveduyushchaya sektorom signalizatsii i prognozov po RSFSR Upravleniya zashchity rasteniy Ministerstva sel'skogo khozyaystva RSFSR (for Kuznetsova).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

VIKTOROV, A.K., agronom; YURKIN, S.N., agronom

Again groundless recommendations. Zemelelie 27 no.6:47-48 Je '65. (MIRA 18:9)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, S.N.; ROTIN, Ya.P., kand. sel'skokhoz. nauk

Reviews and bibliography. Zemledelie 27 no.10:90-96 O '65. (MIRA 18:10)

1. Glavnyy spetsialist Nauchno-tekhnicheskogo soveta Ministerstva sel'skogo khozyaystva SSSR (for Yurkin). 2. TSelinogradskiy sel'skokhozyaystvennyy institut (for Rotin).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

KODANEV, I.M., prof.; YURKIN, S.N., agronom

Overall reclamation of sandy soils. Zemledelie 25 no.11: 91-94 N '63. (MIRA 17:2)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, S.N.

Problem of Phylloxera. Zashch. rast. ot vred. i bol. 9 no.8:53-54 '64. (MIRA 17:12)

1. Uchenyy sekretar' Nauchno-tekhnicheskogo soveta Ministerstva sel'skogo khozyaystva SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, Tikhon Aleksandrovich

Methods for a radical improvement in the work of sovkhozes; completed public lecture. Moskva, Znanie, 1955

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

ACC NR: AP7006072 (A) SOURCE CODE: UR/0025/66/000/011/0097/0099

AUTHOR: Yurkin, V. (Engineer)

ORG: none

TITLE: A tower is being built. [New TV tower near Moscow]

SOURCE: Nauka i zhizn', no. 11, 1966, 97-99 and 3 insert pages preceding p. 97

TOPIC TAGS: TV tower, TV broadcasting, TV antenna

ABSTRACT: Structural and functional characteristics of the 525 meter TV broadcasting tower at Ostankina, near Moscow, slated for operation in 1967 are presented. The tower will have a reinforced concrete base 385 meters high and a metallic antenna 148 meters high. It will make possible the transmission of TV programs over a radius of not less than 150 kilometers. The transmitter power will be seven times greater than what is currently used at the Moscow Television Center. Color TV broadcasts will start in 1968. The tower will include an observation deck and a three story restaurant at the 280-337 meter level. The floors of the restaurant will rotate around the axis of the tower at a rate of one revolution per hour to give the guests a better view of Moscow. The following key personnel were responsible for the design of the tower: design engineer N. Nikitin, architects D. Burdin, L. Batalov, V. Milashevskiy, design engineer B. Zlobin, and sanitary engineer T. Melik-Arakelyan. Twenty organiza-

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

ACC NR: AP7006072

tions participated in the design and development work and the State Union Project Institute of the Ministry of Communication managed the entire project. I. Ostrovskiy headed the technical group. Orig. art. has: 4 figures.

SUB CODE: 09,13/ SUBM DATE: none

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, V. A.

7699. YURKIN, V. A.- Programma po Kursutekhnologiya sel'skokhozyaystvennykh produktov Dlyagr. spetsial'nostey s-Kh vuzov. (Ytv.28/ IX 1954g.) M., 1955.12s.20sm. (M-vysh. obrazovaniya) 6.000 ekz. B.Ts. -V Kontesetekst sost. Trisvyatskiy L. A. Turkin V. A., Yurkin V. A.-(55-4293) 664(071.1)

SO: Knizhnaya Letopis', Vol. 7, 1955

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, V. A.

USSR / Cultivated Plants. General Problems. M-1

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58499

Author : Yurkin, V. A.
Inst : Leningrad Agricultural Institute
Title : The Importance of Hygroscopic Nature of Variety Grain for Storage

Orig Pub : Zap. Leningr. s.-kh. in-ta, 1956, vyp 11, 383-389

Abstract : No abstract given

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

ROZEN, A.M.; KHORKHORINA, L.P.; YURKIN, V.G.; NOVIKOVA, N.M.

Interaction of tributyl phosphate and tributyl phosphate solvate with diluents. Dokl. AN SSSR 153 no.6:1387-1390 D '63. (MIRA 17:1)

1. Predstavleno akademikom A.N. Frumkinym.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

ROZEN, A. M.; YURKIN, V. G.; et al

"Extraction Processes and their Mathematical Description."

report submitted for 2nd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

L 47205-66

ACC NR: AP6027192 SOURCE CODE: UR/0078/66/011/008/1910/1913

AUTHOR: Korovin, S. S.; Yurkin, V. G.; Mironenko, A. P.

ORG: Department of Technology of Rare and Trace Elements, Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Kafedra tekhnologii redkikh i rasseyannykh elementov, Moskovskiy institut tonkoy khimicheskoy tekhnologii)

TITLE: Extraction of boric acid with tri-n-butyl phosphate

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 8, 1966, 1910-1913

TOPIC TAGS: boric acid, phosphate

ABSTRACT: The object of the work was to determine the extractability of boric acid with tri-n-butyl phosphate (TBP) and the extent to which it is affected by concentration, temperature, acidity and presence of salts. Use of the method of extractant dilution showed that the extraction involves the formation of a solvate according to the equation

$$H_3BO_3 + 2TBP \rightleftharpoons H_3BO_3 \cdot 2TBP.$$

The heat of this reaction was found from the equation

$$\frac{d \ln K}{dT} = \frac{\Delta H}{RT^2}$$

Card 1/2 UDC: 546.273-325.04:542.61

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

L 47205-66

ACC NR: AP6027192

by determining the equilbirium constant at several temperatures; $\Delta H = -0.48$ and -0.53 kcal/mole at boric acid concentrations of 0.51 and 1.35 g/l respectively. The distribution of boric acid in the presence of HCl, HNO_3, $HClO_4$, H_2SO_4 and HF was studied; a slight acidification (< 0.1 N) of the boric acid solution decreases its extraction into the organic phase for reasons as yet unknown. Further acidification produces a salting-out effect. In the presence of the salt $MgCl$, the distribution coefficient of boric acid increases, and at a constant concentration of the salting-out agent it remains constant. Orig. art. has: 4 figures and 2 formulas.

SUB CODE: 07/ DATE SUBM: 10Nov64/ ORIG REF: 005/ OTH REF: 001

Card 2/2 fv

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/114/62/000/008/004/006
E194/E455

AUTHORS: Sheynkman, A.G., Engineer, Yurkin, V.S., Engineer, Tokmantsev, N.K., Engineer

TITLE: The influence of blade bottom overlap on turbine stage efficiency

PERIODICAL: Energomashinostroyeniye, no.8, 1962, 28-29

TEXT: The blade bottom overlap in turbines is usually made positive, i.e. the aperture between runner blades extends further towards the shaft axis than does the adjoining nozzle aperture. This design assumes the presence of pressure equalizing holes in the discs, so that there is no leakage through the axial clearance at the blade roots. The steam particles from the nozzle tend to spread radially outwards and not inwards, so it might seem possible to use negative overlaps. Accordingly, the Ural'skiy turbomotornyy zavod (Ural Turbine Works) carried out a series of tests on a full-scale stage of a turbine type BP-6-3 (VR-6-3). The initial stage had zero overlap and the overlap was altered by fixing inserts into the radial surface of the nozzle ducts. Tests were made with and without pressure-relief holes in

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

The influence of blade bottom ... S/114/62/000/008/004/006
E194/E455

the discs. The test conditions are described; the mean diameter of the blades was 612 mm. The efficiency was highest with zero overlap, but a positive overlap of 2 mm reduced it by only 0.5%. As the overlap is increased the reaction alters more at the root than at the periphery. Although zero overlap gives optimum efficiency, there is risk that a negative overlap might accrue from manufacturing tolerances. As this could lead to impact of steam flow against the blade edge, a positive overlap of 0.5 to 1.0 mm is recommended for high-pressure stages. There are 2 figures and 1 table.

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, V.S., inzh.

The ANM-5 machines for winding and stretching annular reinforcements on reinforced concrete tanks. Stroi. i dor. mash. 10 no.9: 24-25 S '65. (MIRA 18:10)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, V.S., inzh.

First construction stage of the Lyubertsy aeration station.
Vod. i san. tekh. no.7:14-16 Jl '65. (MIRA 18:8)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKIN, Ye.N.

CA

1

New apparatus for the determination of small amounts of carbon in steels by the barium hydroxide method. O. M. Korovin and E. N. Yurkin. *Zavodskaya Lab.* 5, 1131-2(1936).—A simple modification of the Dickens app. (cf. C. A. 22, 4011) is illustrated and described. C. B.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

19 4 ESC

Preventing the adhesion of iron sheets during annealing. G. A. Zykov and E. N. Yurkin. U.S.S.R. 101,548, Dec. 31, 1956. To prevent the adhesion of sheet iron while it is being annealed in piles, the sheets are coated with an aq. som. of Fe or Mn nitrate. M. Hosch

Rb fra VII

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, A.I.

Significance of palpation in tuberculosis of mesenterial lymph nodes in children. Sovet. med. No. 2:25-27 Feb 52. (CLML 21:5)

1. Of the Children's Division of the Institute of Tuberculosis of the Academy of Medical Sciences USSR (Director--Z.A. Lebedeva).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, A.I.

POKHITONOVA, M.F., professor; YURKINA, A.I.

Tuberculosis in adolescents and prevention of the development of open forms. Probl.tub. no.1:14-19 Ja-F '55. (MIRA 8:4)

1. Iz detskoy kliniki Instituta tuberkuleza Akademii meditsinskikh nauk SSSR (dir. Z.A.Lebedeva)
(TUBERCULOSIS, PULMONARY,
in adolescents, ther. of primary complex)
(ADOLESCENCE, diseases,
tuberc., pulm., ther. of primary complex)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, A. I.

USSR/Pharmacology. Toxicology. Chemotherapeutical Preparations V

Abs Jour : Ref Zhur-Biol., No 8, 1958, 37701

Author : Yurkina A. I.
Inst : Institute of Tuberculosis Academy of Medical Sciences USSR
Title : Comparative Effect of Metazid and Phthivazid on the Course of Primary Tuberculosis in Children. (Sravnitel'noye deistviye metazida i ftivazida na techeniye pervichnoho tuberkuleza u detei).

Orig Pub : Tr. in-ta tuberkuleza Akad. med. nauk, SSSR, 1956, 8, 158-165

Abstract : Metazid (1) in combination with PASK was administered to 22 children suffering mainly from primary tuberculosis. The drugs were administered in 24 hour doses of 0.45 to 0.6 g to children

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

USSR/Pharmacology. Toxicology. Chemotherapeutical Preparations V

Abs Jour : Ref Zhur-Biol., No 8, 1958, 37701

Abstract : of preschool age, and in doses of 0.5 to 0.9 g to children of school age. The course of treatment was 5 months. A rapid decrease in general intoxication, resolution of the inflammatory changes of the lungs, resolution of alectasis, a diminution and healing of the tumor-like lymphatic ganglia was the result of the application of 1 with PASK. The specific therapeutic action of 1 was similar to that of phthivazid. A comparison of the immediate results of the application of 1 and phthivazid revealed that combined therapy with 1 and PASK produced better results than the combined therapy with phthivazid and PASK.

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, A.I., kand.med.nauk

Chemotherapy of tuberculous mesadenitis and peritonitis in children [with summary in French]. Probl.tub. 36 no.2:29-34 '58 (MIRA 11:5)

1. Iz detskogo otdeleniya Instituta tuberkuleza AMN SSSR (dir. Z.A. Lebedeva).

(TUBERCULOSIS, LYMPH NODE, in inf. and child
ther., PAS, streptomycin & TB_1 in tuberc. mesadenitis & peritonitis (Rus))
(PERITONITIS, in inf. and child
ther., PAS, streptomycin & TB_1 in tuberc. peritonitis (Rus))
(TUBERCULOSIS, in inf. and child
same)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

POKHITONOVA, M.P., prof.; YURKINA, A.I., kand.meditsinskikh nauk

Pathogenesis of open forms of tuberculosis in adolescents and ways of preventing their rise. Trudy Inst. tub. AMN 7:143-153 '58. (MIRA 13:10)

(TUBERCULOSIS—PREVENTION)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, A.I.

Results of treating tuberculosis in children with metazide.
Khim. i med. no.14:81-88 '60. (MIRA 14:12)

1. Detskoye otdeleniye (zav. - prof. M.P.Pokhitonova) Institute tuberkuleza (dir. - prof. N.A.Shmelev) AMN SSSR.
(TUBERCULOSIS) (METAZIDE)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

17(3)

AUTHORS: Gubin, G. D., Yurkina, A. K. SOV/20-125-1-50/67

TITLE: Histochemical Determination of Ribonucleic Acid and Glycogen in the Tissues of Animals in Different Physiological States (Gistokhimicheskoye opredeleniye ribonukleinovoy kisloty i glikogena v tkanyakh zhivotnykh, nakhodyashchikhsya v razlichnykh fiziologicheskikh sostoyaniyakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 185-187 (USSR)

ABSTRACT: The amount of ribonucleic acid varies in the case of tissue-injuries in 3 phases both in tissues of the intact organism and in isolated tissues (Refs 6 - 10). In the case of "entering the place of injury" the amount of ribonucleic acid (RNA) decreases (I phase). With increasing degree of injury the amount of RNA increases considerably. (II phase). In the case of an irreversible injury and a destruction of the cell, the amount of RNA decreases rapidly (Refs 1, 2, 4, 6, 8) in consequence of a washing-out process (III phase). An injury implies also a change of glycolysis, i. e. an

Card 1/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

Histochemical Determination of Ribonucleic Acid and Glycogen in the Tissues of Animals in Different Physiological States

SOV/20-125-1-50/67

increase occurs (Refs 3, 11). It is the aim of the present investigation to clarify the character of the RNA and glycogen concentration in the tissues of healthy animals and of those suffering from avitaminosis or starving for a certain period of time. For this purpose the liver-tissue of 20 guinea-pigs was used (8 control animals, 4 with C-avitaminosis, 8 were in a complete state of starvation : for 15, 18, 22 hours, 1, 2, 4, 8 and 9 days). The animals were decapitated and from their livers sections with microtome were made. The investigation produced the following results: 1. The liver-cells of the animals suffering from avitaminosis or from starvation (especially up to 24 hours) show a higher RNA-concentration than those of the healthy and normally nurished ones. 2. In the case of increasing RNA-content the glycogen decreases as a rule. It is possible that both variations are in connection with the intensification of the glycolytic processes. It is a well-known fact that in the case of regeneration and injury

Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

Histochemical Determination of Ribonucleic Acid and Glycogen in the Tissues of Animals in Different Physiological States SOV/20-125-1-50/67

of the cell, glycolysis is increased (Refs 3, 11). At the same time, however, the RNA-content increases too (Refs 2, 12). The problem is intended to be further investigated. There are 2 figures and 12 Soviet references.

ASSOCIATION: Sverdlovskiy gosudarstvennyy meditsinskiy institut (Sverdlovsk State Medical Institute)

PRESENTED: October 14, 1958, by A. I. Oparin, Academician

SUBMITTED: June 2, 1958

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, E.T.

Standard design of a sanatorium for parturients. Vop.okh.mat. i det. 5 no.4:88-92 Jl-Ag '60. (MIRA 13:7)
(HOSPITALS, GYNECOLOGIC AND OBSTETRIC)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

30793
S/181/61/003/011/038/056
B104/B102

24.7700 (1035,1043,1055)

AUTHORS: Zhurkin, B. G., Zemskov, V. S., and Yurkina, K. V.

TITLE: Hall mobility of electrons in highly alloyed n-type germanium

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3509 - 3513

TEXT: The Hall mobility of electrons in n-type germanium monocrystals alloyed with antimony (up to $2.5 \cdot 10^{19}$ cm^{-3}) and arsenic (up to $6.0 \cdot 10^{19} cm^{-3}$) was studied. Specimens cut from monocrystal ingots were used for measurements carried out at room temperature. The specimens had the dimensions 7·3·1 mm, the ingots had been produced by crystal pulling. The method of manufacturing strongly alloyed germanium was described in previous papers (B. G. Zhurkin et al., Izv. AN SSSR, OTN, no. 5, p. 86, 1959; V. S. Zemskov et al., Tezisy dokl. na konf. po udarnoy ionizatsii i tunnel'nomu effektu v poluprovodnikakh, Baku, 14 - 17, 1960). Electron-electron collisions were not taken into account because of degeneration in alloyed germanium. The Hall mobility was computed by the relation

Card 1/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

30793
S/181/61/003/011/038/056
B104/B102

Hall mobility of electrons in highly...

$\mu = R/\rho$, where R is the Hall constant and ρ the resistivity. The two latter quantities were measured with the use of a ППТН-1 (PPTN-1) voltmeter and an М25/3 (M25/3) galvanometer by a d-c compensation method. Magnetic fields of 3800-4200 oe were employed to measure R. The measuring error of ρ was $\pm$ 5 %, that of the Hall-emf $\pm$ (10-20)%. The results showed that the Hall mobility of the electrons in germanium alloyed with antimony (10^{18} - 10^{19} cm^{-3}) by far exceeds that of germanium of equal arsenic concentration. At an impurity concentration of about 10^{19} cm^{-3} the Hall mobility of electrons in germanium alloyed with antimony is almost twice that in germanium alloyed with arsenic. It is assumed that this difference is due to a change in effective electron mass m_n with the impurity. When electron scattering from impurity atoms and lattice vibrations was taken into account, an estimation of the effective masses $m_{n(Sb)}$ and $m_{n(As)}$ showed that within the concentration range of $5 \cdot 10^{17}$ - $2.5 \cdot 10^{19}$ cm^{-3} $m_{n(Sb)}$ was changed from 0.19 m to 0.30 m. In the range of arsenic concentration

Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

30793

Hall mobility of electrons in highly... S/181/61/003/011/038/056
B104/B102

of $5.10^{17} - 5 \cdot 10^{19}$ cm^{-3}, $m_{n(As)}$ was changed from 0.195 m to 0.52 m. The authors thank B. M. Vul', L. V. Keldysh, and V. A. Chuyenkov for discussions. There are 1 figure, 2 tables, and 10 references: 3 Soviet and 7 non-Soviet. The three most recent references to English-language publications read as follows: W. Waring, D. Pitman, S. Steele, J. Appl. Phys., 29, no. 6, 1002, 1958; W. E. Baker, D. M. Compton. J. B. M. J. Res. and Develop., 4, no. 3, 275, 1960; M. Cardona, W. Paul, H. Brooks. Helv. phys. acta, 33, no. 5, p. 329, 1960.

ASSOCIATION: Institut metallurgii im. A. A. Baykova AN SSSR Moskva (Institute of Metallurgy imeni A. A. Baykov AS USSR, Moscow)

SUBMITTED: March 3, 1961 (initially) July 3, 1961 (after revision)

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/058/63/000/002/045/070
A062/A101

AUTHOR: Zemskov, V. S., Zhurkin, B. G., Suchkova, A. D., Yurkina, K. V.

TITLE: Production and properties of strongly alloyed germanium

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 71, abstract 2E473 ("Tr. Soveshchaniya po udarn. ionizatsii i tunnel'n. effektu v poluprovodnikakh, 1960". Baku, AN AzerbSSR, 1962, 130 - 150)

TEXT: By the method of extracting the solid phase from a smelt with a large content of alloying admixture, single crystals of Ge were obtained with a concentration of Al up to $1.0 \cdot 10^{21}$ cm^{-3}, with a concentration of As up to $6.0 \cdot 10^{19}$ cm^{-3}, with a concentration of Sb up to $2.5 \cdot 10^{19}$ cm^{-3} and with a concentration in In up to $2.0 \cdot 10^{19}$ cm^{-3}. It is established that there is an increase of solubility of In and Sb in Ge at a combined alloying, and this is explained on the basis of the electron-hole interaction in the solid phase. Applying the method of quantitative radiography and measuring the Hall effect made it possible to determine separately the concentration of In and Sb in the solid phase of Ge, while the data on the Hall mobility show an absence of neutral ion pairs $[In^{-} Sb^{+}]^{o}$. It was found that

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

Production and properties of...

S/058/63/000/002/045/070
A062/A101

at room temperature the Hall mobility in Ge with Sb, in the range of Sb concentrations from $2 \cdot 10^{18}$ to $5 \cdot 10^{19}$, is about twice as high as the Hall mobility in Ge with As at equal concentrations of the admixtures.

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

37736

S/180/62/000/002/015/018
E040/E535

18.1200

AUTHORS: Zemskov, V.S., Zhurkin, B.G. and Yurkina, K.V. (Moscow)

TITLE: The solubility of arsenic in germanium

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo, no.2, 1962, 134-135

TEXT: Arsenic is one of the most commonly used alloying elements of germanium but, in spite of this, the available technical data for the solubility of arsenic in germanium are incomplete and often conflicting. The present investigation was carried out using a technique involving the extraction of samples from molten germanium solution containing various concentrations of arsenic and subsequent investigation, of the specimens thus obtained, by X-ray structural and microscopic analyses, determination of the quantity of current carriers from measurements of the Hall constant and measurement of the specimen resistivity at room temperature. The starting materials for the investigations were germanium with the resistivity ρ = 35-40 ohm·cm and diffusion length of the minority current carriers of not less than 2-2.5 mm.

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

The solubility of arsenic ... S/180/62/000/002/015/018
E040/E535

The arsenic contained calcium and magnesium impurities in concentrations not exceeding 10^{-3} and 10^{-4}%, respectively. A partial phase composition diagram for the As-Ge system is constructed in semi-logarithmic coordinates in the temperature range 700 - 937°C and the solidus line is drawn in, together with the liquidus line quoted on the basis of data reported by H. Stöhr and W. Klemm (Ref.6: Z.anorgan.und allgem.Chem., 1940, 244, p.205). It was established that the highest solubility of arsenic in germanium does not exceed 0.12 at.%. The above figure for the maximum solubility of arsenic in germanium-base solid solution agrees well with the value recently reported in the paper by P. L. Moody and A. J. Strauss (Ref.9: J. Electrochem.Soc., 1960, v.107, p.64). There are 1 figure and 1 table.

SUBMITTED: May 31, 1961

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, L. S.

SHAPIRO, D. D., SKRIPNICHENKO, V. G. i YURKINA, L. S. Lecheniye infektsionnykh ekzem otkhodami karternogo masla. Vracheb. Delo, 1948, No. 11, S. 1017-18.

SO: Letopis'Zhernal'nykh Statey, Vol. 7, 1949

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M. I.

"Investigation of the Shape of the Physical Surface of the Earth for the Territory of Crimea." Sub 15 Jun 51, Moscow Inst of Engineers of Geodesy, Aerial Photography and Cartography, Ministry of Higher Education USSR

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M.I.

Methods of studying the figure of the earth in mountainous regions. Trudy TSNIIGAIK no.103:65-117 '54. (MIRA 13:4)

(Crimea--Geodesy)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YEREMEYEV, V.F.; YURKINA, M.I.

Application of dynamic heights. Sbor.st.po geod.no.10:23-38 '55.
(Altitudes--Measurement) (MLRA 10:2)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M.I.

YEREMEYEV, V.F.; YURKINA, M.I.

Computing the effect of far zones on the height of the quasigeoid and on the deflection of the vertical. Trudy TSNIIGAIK no.121:17-24 '57. (MIRA 10:10)

(Geodesy)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M.I.

Elliptical transparent sheet divided into squares designed by M.S.Molodenskii for the computation of the distance of the quasi-geoid. Trudy TSNIIGAIK no.121:25-40 '57. (MIRA 10:10)
(Geodesy)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M.I.

Solution of an integral equation describing the figure of the Earth. Trudy TSNIIGAIK no.121:41-42 '57. (MIRA 10:10)
(Earth--Figure)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

6-58-3-12/16

AUTHOR: Yurkina, M. I., Candidate of Technical Sciences

TITLE: Answering Letters to the Editor (Otvety na voprosy chitateley)

PERIODICAL: Geodeziya i Kartografiya, 1958, Nr 3, pp. 71-72 (USSR)

ABSTRACT: Question: in the article by M. I. Yurkina "The Theory of the Earth's Shape in Foreign Countries" in Geodeziya i Kartografiya, 1957, Nr 7 the method of the analytical continuation of the gravity anomalies, suggested by A. K. Malovichko, was not illustrated.
Answer: in paragraph 11 of the book by M. S. Molodenskiy "The Fundamental Problems of Geodetical Gravimetry" ("Trudy TsNIIGAiK Nr. 42, 1945) it was proved that according to the measurements performed at the earth's surface it is not possible to determine the elements of the inner gravitational field. The values of gravity within the attractive mass cannot be determined either without using the data on the distribution of density within the earth. The content of this paragraph entirely

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

disproves the considerations made by A. K. Malovichko on the possibility of a determination of the geoid. A detailed analysis of this method was given in the article by V. A. Kuzivanov (1956). Here, too, the way for the determination of the geoid, as suggested by Malovichko, is refuted. The proof by Molodenskiy and the conclusion by Kuzivanov are here illustrated with the aid of an example. There are 1 figure and 2 references, which are Soviet.

AVAILABLE: Library of Congress

1. Gravity--Determination

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M.I

AUTHORS: Scientific Collaborators of the TsNIIGAiK: Yurkina, M.I., Yeremeyev, V.F., Fedosov, F.I., Uspenskiy, M.S., Meshchanskiy, F.L. 6-58-4-14/18

TITLE: Letter to the Editor (Pis'mo v redaktsiyu)

PERIODICAL: Geodeziya i Kartografiya, 1958, Nr 4, pp. 66-66 (USSR)

ABSTRACT: It is pointed out that different tables published for the same quantities, which differ only by the distribution of the material, by the reduction of the number of figures of tabulated amounts, and by the modification of the intervals between them are being published by various persons who describe themselves as authors and claim authors' rights. It is demanded that this state of affairs be ended and that in no case these persons, who merely carry out some modifications of existing tables, be allowed to claim authorship. The calculation of tables must be entrusted to the care of organizations, so that the costs of editions would be reduced.

AVAILABLE: Library of Congress

Card 1/1 1. Tables— Material distribution

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

3(4)

SOV/6-59-4-16/20

AUTHORS: Yurkina, M. I., Candidate of Technical Sciences,
Yeremeyev, V. F., Candidate of Technical Sciences,
Makarov, N. P., Candidate of Physical and Mathematical Sciences

TITLE: On a Result of the 11th General Assembly of the International Union of Geodesy and Geophysics in Toronto (Ob odnom itoge XI General'noy assamblei MGGS v Toronto)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 4, pp 59-62 (USSR)

ABSTRACT: At the meeting of the International Gravimetric Commission in Paris in 1956, M. S. Molodenskiy delivered a short report on his method of determining the figure of the real earth. Special attention was then paid to this communication. It eliminated the need of a regulation. In this case, the accuracy of determining the figure and dimensions of the earth only depends on the density and completeness of the gravimetric, astronomic and geodetic surveys on the physical earth's surface. The only condition required for Molodenskiy's method is that the earth's surface has no acute angles, i.e. that a certain tangential surface can be laid on each point of the same. Many countries have already provided their areas with a gravimetric survey with one point to every 10 km^2. With

Card 1/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

SOV/6-59-4-16/20

On a Result of the 11th General Assembly of the International Union of Geodesy and Geophysics in Toronto

the use of gravimetric surveys of such accuracy and density, and of the theory by Molodenskiy, the deflections from the vertical, for instance, can be determined with an accuracy of up to 0".1. According to the theory by Stokes such accuracy can only be attained by carrying out the present gravimetric surveys not on the earth's surface but on a regulated geoid which is, however, physically impossible. As, however, the elements of the external gravitation field, and particularly the deflections from the vertical, are necessary to solve different geodetic tasks, attempts were carried out abroad to improve the old traditional way basing on Stokes' theory in order that the accuracy of the conclusions should correspond to the accuracy of the survey. Such an attempt is represented by a suggestion made by Graf Hunter at the 11th Assembly of the International Union of Geodesy and Geophysics in September 1957. He suggested to consider the gravitational anomalies to be measured in points on the physical earth's surface. Graf Hunter did, however, not consider the changes in the deflections from the vertical, nor did he put forward methods of considering these changes. As can be seen from

Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

SOV/6-59-4-16/20

On a Result of the 11th General Assembly of the International Union of Geodesy and Geophysics in Toronto

the paper by A. A. Izotov (Ref 3), the Assembly did not recognize the importance of the report by M. S. Molodenskiy though it had been submitted to it. In this connection, the fault in Izotov's paper is pointed out. He asserts that Graf-Hunter is in agreement with Molodenskiy's method but suggests to solve the problem in a different way. Also the assertion by Izotov (Geodeziya i kartografiya, 1958, Nr 7) that Molodenskiy suggests a formula of the Stokes type generalized by him is not correct. The known Stokes'formula is obtained as a special case of Molodenskiy's theory. Finally, the authors of the present paper express their astonishment at the fact that the Assembly approved the method by Graf-Hunter as corresponding to the requirements of Stokes' theorem. There are 4 references, 2 of which are Soviet.

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

3 (4)

AUTHOR: Yurkina, M. I., Candidate of Technical Sciences SOV/6-59-11-18/21

TITLE: A Few Remarks on the Book "Fedor Alekseyevich Sludskiy, a Scientist and Land Surveyor"

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 11, pp 68-70 (USSR)

ABSTRACT: This article reviews the book by V. N. Gan'shin and N. N. Bol'shakov on Fedor Alekseyevich Sludskiy (published in the Geodezizdat 1957). Incorrect statements regarding Sludskiy are corrected. The opinions of I. D. Zhongolovich on Sludskiy are quoted in connection herewith. Mention is made of an inaccurate evaluation of two works by M. S. Molodenskiy in the same book. The work by S. V. Gromov and N. I. Idel'son are also mentioned in connection with this review. There is 1 Soviet reference.

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

MOLODENSKIY, Mikhail Sergeyevich; YEREMEYEV, Vladimir Fedorovich; YURKINA, Mariya Ivanovna; MAKAROV, N.P., otv.red.; SHAMAROVA, T.A., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Methods for studying the exterior gravitational field and the figure of the earth] Metody izucheniia vneshnego gravitatsionnogo polia i figury zemli. Moskva, Izd-vo geodez. lit-ry, 1960. 151 p. (Leningrad. TSentral'nyi nauchno-issledovatel'skii institut geodezii aeros"emki i kartografii. Trudy, no.131). (MIRA 13:6)

(Earth—Figure) (Gravity)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M.I.

PHASE I BOOK EXPLOITATION SOV/4291
SOV/42-S-131

Molodenskiy, Mikhail Sergeyevich, Vladimir Fedorovich Yeremeyev, and Mariya Ivanovna Yurkina

Metody izucheniya vneshnego gravitatsionnogo polya i figury zemli (Methods of Studying the Outer Gravitational Field and the Figure of the Earth). Moscow, Geodezizdat, 1960. 250 p. Series: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aeros"yemki i kartografii. Trudy, vyp. 131)

Additional Sponsoring Agency: USSR. Glavnoye upravleniye geodezii i kartografii.

Ed.: N.P. Makarov; Ed. of Publishing House: T.A. Shamarova; Tech. Ed.: V.V. Romanova.

PURPOSE: The book is intended for geodesists, surveyors, and cartographers. It may also be used by students of geodesy and cartography.

COVERAGE: This issue of the Transactions of the Central Scientific Research Institute of Geodesy, Aerial Survey, and Cartography deals with methods of investigating the outer gravitational field in a system of coordinates applicable to the entire Earth. The authors analyze the possibilities of a geometric method, i.e.,

Card 1/7

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

combination of precise linear and angular measurements (triangulation, astronomic determination of latitudes, longitudes and azimuths and trigonometric levelling). Authors give methods for the determination of anomalies of the gravitational field and methods of numerical integration and the possible errors in gravimetric conclusions. Chapters I to VII are based mainly on the work of M.S. Molodenskiy, and Chapter VIII on the work of V.F. Yeremeyev. The authors thank I.D. Zhongolovich, L.P. Pellinen and N.P. Makarov. There are 111 references; 83 Soviet, 12 English, 10 German, 4 French, 1 Italian, and 1 Czech.

TABLE OF CONTENTS:

Introduction 3

Foreword (In German) 8

Ch. I. Geometrical Method for the Study of the Figure of the Physical Surface of the Earth 14
1. Principles of the method 14
2. Geodetic system of coordinates 15
3. Differential formulas for the transformation of coordinates into a new system 20
4. Geodetic constructions using straight lines 24

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

YURKINA, M.I.; MAKAROV, N.P.; YEREMEYEV, V.F.

Present state of theories applied to the study of the earth's physical surface. Trudy TSNIIGAIK no.139:45-59 '60. (MIRA 14:7)

(Earth—Figure)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

BROVAR, Vsevolod Vladimirovich; MAGNITSKIY, Vladimir Aleksandrovich; SHIMBIREV, Boris Pavlovich; YURKINA, M.I., retsenzent; MAKAROV, N.P., retsenzent; VIROVTS, A.M., retsenzent; VASIL'YEVA, V.I., red. izd-va; SONGUROV, V.S., tekhn. red.

[Theory of the earth's figure] Teoriia figury Zemli. Pod obshchei red. V.A.Magnitskogo. Moskva, Izd-vo geodez. lit-ry, 1961. 256 p. (MIRA 15:3)
(Earth—Figure) (Gravity)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/547/62/000/145/001/002
E032/E414

AUTHORS: Molodenskiy, M.S., Yeremeyev, V.F., Yurkina, M.I.

TITLE: An estimate of the accuracy of Stokes's series and some attempts to improve his theory

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aeros"yemki i kartografii. Trudy. no.145. 1962. Issledovaniya po geodezicheskoy gravimetrii, 3-21

TEXT: It is pointed out that because the regularization of the Earth cannot be carried out with sufficient accuracy, the accuracy of Stokes's series may be appreciably lower than the nominal accuracy. For high order harmonics there is no simple relation between the coefficients of expansions representing anomalies defined on the Earth's surface and the Stokes constants characterizing the external gravitational field. This effect is now investigated with a model in the shape of a sphere girded along the equator by a toroidal belt half buried in the sphere and covered by lateral conical surfaces in order to reduce the angle with the sphere to about 10°. Various methods of expanding the disturbing potential are then tried and numerical values for the

Card 1/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/547/62/000/145/001/002
E032/E414

An estimate of the accuracy ...

expansion coefficients are tabulated. The expansion coefficients are computed (1) for the given distribution of anomalous masses, (2) by formally referring the quasigeoidal heights at points on the model's surface to the reference sphere and (3) by formally referring the gravitational anomalies to the sphere and applying the Stokes series. Marked discrepancies are found between the numerical values obtained for these coefficients in the three cases, and it is concluded that these discrepancies can only be explained by high harmonics in the formal expansions for the anomalies and the heights of points on the physical surface. The present results are in full agreement with earlier calculations of quasigeoidal and geoidal heights at the equator and the pole. The error in the integral Stokes formula at the pole of the model, i.e. well away from the region with large gravitational anomalies and large slopes, turns out to be greater than the possible departure of the quasigeoid from Listing's geoid. It is concluded that current practical methods of computing the coefficients in the expansion for the disturbing potential from gravity measurements are inadequate. In order to achieve acceptable accuracy the theory

Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

of the external gravitational field and the shape of the Earth's physical surface must be used. A survey is then made of the various theoretical treatments available in the literature. It is shown that the methods of S.V. Gromov (Vestnik Leningradskogo universiteta, no.19, 1956, 174-185: no.19, 1957, 145-152: Uch. zap. LGU, no.273, 1958, 208-249) and of R.A. Hirvonen (Sarja A. III Geologica-Geographica, 56, Helsinki, 1960) cannot lead to an improvement in Stokes's theory, whereas the method due to Arne Bjerhammar (Series A III, Geologica - Geographica, 1961, 61) leads to the same accuracy as Stokes's formula. The authors also disagree with the model of J. de Graaff-Hunter which is said to lead to the same difficulties as the application of Stokes's theory to the real Earth. Finally, the integral equation for the disturbing potential developed by J.J. Levallois (Bull. Geod., 1958, N50) and Bjerhammar is shown to be subject to an error of the order of the slope of the Earth's physical surface at the point under investigation. This error may reach up to 40%.
There are 5 figures and 7 tables.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/006/62/000/005/002/002
D054/D113

AUTHORS: Yurkina, M.I. and Yeremeyev, V.F.

TITLE: Three-dimensional geodesy

PERIODICAL: Geodeziya i kartografiya, no. 5, 1962, 63-71

TEXT: The theory of determining the Earth's shape by geodetic measurements on its surface, proposed and substantiated in 1945 by M.S. Molodenskiy, gives a full, practically realizable solution to all problems of three-dimensional geodesy. Whereas Western geodesists are still discussing these problems, Soviet geodesists have been accurately working out problems of three-dimensional geodesy since the beginning of the 1950's. Molodenskiy's theory, little known and insufficiently understood abroad, was exposed in his works published in 1945 and 1948 and in the following articles: (1) "Izucheniye figury Zemli geometricheskim (astronomo-geodezicheskim) metodom" ("The study of the Earth's shape by a geometric (astronomic-geodetic) method"), Sbornik statey GUGK 1949, no 27, and reprinted in the Trudy TsNIIGAiK, 1950, no 75; (2) "Novyy metod resheniya geodeziche-

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

S/006/62/000/005/002/002
D054/D113

Three-dimensional geodesy

skikh zadach" ("A new method of solving geodetical problems"), Trudy TsNIIGAiK, 1954, no 103. Problems of three-dimensional geodesy were discussed at the Toronto and Helsinki assemblies of the IGGA held in 1957 and 1960, respectively, as well as at the 1959 Venice Symposium devoted exclusively to problems of three-dimensional geodesy. Theories exposed there by several specialists including Brigadier Martin Hotin, Director of Overseas Surveying in England, and Antonio Marussi, Director of the Institute of Geodesy and Topography at Trieste University, only repeated the findings and formulas published long ago by Molodenskiy. H. Dufour, Levallois, R.A. Hirvonen, Byerhammar, Bodemueller, Vignal, C.F. Baeschlin, Kobold and Hunziker are mentioned.

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1

MOLODENSKIY, M.S.; YEREMEYEV, V.F.; YURKINA, M.I.

Evaluation of the accuracy of Stokers' series and some attempts to make his theory more accurate. Trudy TSNIIGAIK no.145:3-21 '62. (MIRA 15:11)

(Earth—Figure)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210017-1"