RABINOVICH, Ye.Ya., inzh.

Hydraulic drive for trenching and road machinery. Stroi. i dor. mash. 10 no.3:16-18 Mr '65. (MIRA 18:5)

YUDIN, Vladimir Andreyevich, prof.; PETROKAS, Leonid Venediktovich, prof.; RABINOVICH, Ye.Z., red.; GAVRILOV, S.S., tekhn.red.

[Laboratory practical manual on the theory of mechanisms and machinery] Laboratornyi praktikum po teorii mekhanizmov i mashin. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 170 p. (MIRA 14:4)

(Mechanical engineering--Study and teaching)
(Engineering laboratories)

SAFARYAN, Misak Karapetovich, kand. tekhn.nauk; IVANTSOV, Oleg Maksimovich, inzh.; RABINOVICH, Ye.Z., red.; SOLCHANIK, G.Ya., red.; FEDOTOVA, I.G., tekhn.red.

[Design and construction of steel tanks for petroleum products] Proektirovanie i sooruzhenie stal'nykh rezervuarov dlia nefteproduktov. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 325 p. (MIRA 14:5)
(Petroleum products--Storage)

BERLIN, Meyer Abramovich; NAYDIN, Boris Abramovich; RABINOVICH, Ye.Z., red.; SOLGANIK, G.Ya., ved. red.; POLOSINA, A.S., tekhn. red.

[Repairing pumps and turbines of petroleum refineries] Remont nasosov i turbin neftepererabatyvaiushchikh zavodov. Moskva, Gos. nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1961. 227 p. (MIRA 14:12)

(Petroleum refineries--Equipment and supplies)

RABINOVICH, Yefim Zinov'yevich; ARKHANGEL'SKIY, V.A., red.; PLAKSHE, L.Yu., tekhn. red.

[Hydraulics] Gidravlika. Izd.3., ispr. i perer. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 403 p. (MIRA 15:2)
(Hydraulics)

KLIMENKO, Aleksandr Petrovich; RABINOVICH, Ye.Z., vedushchiy red.; VORONOVA, V.V., tekhn.red.

[Liquefied hydrocarbon gases; storage, transportation, regasification, and utilization] Szhizhennye uglevodorodnye gazy; khranenie, transport, regazifikatsiia i ispol'zovanie. Izd.2., perer. i dop. Moskva, Gostoptekhizdat, 1962, 419 p. (MIRA 15:5)

(Liquefied petroleum gas)

RABINOVICH, Abram Mendelevich; RABINOVICH, Ye.Z., red.; STAROSTINA, L.D., tekhn. red.

[Pneumatic devices for the drive of the deep equipment]Gidropnevmaticheskie ustroistva v prirode glubinnonasosnoi ustanovki. Moskva, Gostoptekhizdat, 1962. 98 p. (MIRA 16:4)

(Sucker rods)

KRYLOV, Aleksey Vasil'yevich; RABINOVICH, Ye.Z., red.; SVYATITSKAYA, K.P., ved. red.; VORONOVA, V.V., tekhn. red.

[Single-screw pumps]Odnovintovye nasosy. Moskva, Gostoptekhizdat, 1962. 153 p. (MIRA 16:4)
(Rotary pumps)

YUDIN, Vladimir Andreyevich, prof.; PETROKAS, Leonid Venediktovich, prof.; RABINOVICH, Ye.Z., red.; KOLESNIKOVA, A.P., tekhn. red.

[Laboratory manual on the theory of mechanisms and machines] Laboratornyi praktikum po teorii mekhanizmov i mashin. Moskva, Fizmatgiz, 1962. 171 p. (MIRA 16:6)
(Mechanisms) (Machinery)

AL'TSHUL', Adol'd Davydovich; RABINOVICH, Ye.Z., kand. tekhn. nauk, red.; RASTOVA, G.V., ved. red.; BASHMAKOV, G.M., tekhn. red.

[Local hydraulic resistances in the flow of viscous fluids] Mestnye gidravlicheskie soprotivleniia pri dvizhenii viazkikh zhidkostei. Moskva, Gostoptekhizdat, 1962. 114 p.
(MIRA 15:6)

(Fluid mechanics)

KAMERSHTEYN, Anatoliy Grigor'yevich; ROZHDESTVENSKIY, Vladimir Vladimirovich; RUCHIMSKIY, Mark Nikolayevich; RABINOVICH, Ye.Z., red.; POLOSINA, A.S., tekhn. red.

[Calculating the strength of pipelines]Raschet truboprovodov na prochnost'; spravochnaia kniga. Moskva, Gostoptekhizdat, 1963. 427 p. (MIRA 16:4)

(Pipelines)

YABLONSKIY, Vsevolod Sergeyevich; ISAYEV, Ivan Anan'yevich; RABINOVICH, Ye.Z., red.; KRYUCHKOVA, V.N., tekhn. red.

[Collection of problems and exercises in applied hydromechanics] Sbornik zadach i uprazhnenii po tekhnicheskoi gidromekhanike. Moskva, Fizmatgiz, 1963. 200 p. (MIRA 16:10)

(Fluid mechanics--Problems, exercises, etc.)

RABINOVICH, Ye.Z., kand.tekhn.nauk

Faulty edition. Mashinostroitel' no.7:47-48 Jl '63. (MIRA 16:9)
(Mechanical engineering)

RABINOVICH, Ye. Z.

"Significance of the Variation of the Level of Carbon Anhydrase Enzymes in the Physiology and Pathology of Fetuses and New Born Infants," Vop. Ped. i Okhran. Mater. i Det., 17, No. 4, 1949. Cand. Medical Sci. Chair Mbr., Biochemistry, Gor'kiy Med. Inst. im. S. M. Kirov, -c1949-. Gynecological Dept., 12th Gor'kiy Hosp., -c1949-.

RABINOVICH, Ye.Z., kandidat meditsinskikh nauk; TUHOV, A.I.

Uterine chondroma. Akush.i gin. no.1:70 Ja-F '54. (MLRA 7:6)

1. Iz ginekologicheskogo otdeleniya (zaveduyushchiy Ye.Z.Rabinovich, konsul'tant - professor G.K.Cherepakhin) 12-y bol'nitsy g. Gor'kogo.
(Uterus--Tumors)

RABINOVICH, Ye.Z., kandidat meditsinskikh nauk

Results of mass prophylactic surveys in industrial enterprises. Akush. i gin. no.3:54-56 My-Je '55. (MLRA 8:10)

1. Iz ginekologicheskogo otdeleniya (zav. Ye.Z.Rabinovich, konsul'tant-prof. G.K.Cherepakhin) 12-y bol'nitsy g. Gor'kogo

(GENITALIA FEMALE, neoplasms,
prev. mass surveys in indust. in Russia)
(INDUSTRIAL HYGIENE
in Russia, mass surveys for prev. of female genital cancer)

RABINOVICH, Ye.Z., kandidat meditsinskikh nauk.

Modified technique for the cone-shaped amputation of the uterine cervix. Akush. i gin. no.5:70-72 S-O '55. (MLRA 9:1)

1. Iz ginekologicheskogo otdeleniya (zav.-Ye.Z. Rabinovich, konsul'tant-prof. G.K. Cherepakhin) bol'nitsy no.12 g. Gor'kogo.
(CERVIX, UTERINE, surg.
amputation, cone-shaped)

RABINOVICH, Ye.Z.

Case of severe anuria following per os administration of sulfathiazole. Sov.med. 21 Supplement:24-25 '57. (MIRA 11:2)

1. Iz ginekologicheskogo otdeleniya bol'nitsy No.12 g. Gor'kogo.
(SULFATHIAZOLE) (URINE--SUPPRESSION)

RABINOVICH, Ye.Z., kand.med.nauk

Novocaine-penicillin lumbar block in the treatment of acute inflammatory processes of the female genitalia [with summary in English]. Akush. i gin. 35 no.1:79-81 Ja-F '59. (MIRA 12:2)

1. Iz ginekologicheskogo otdeleniya (zav. Ye.Z. Rabinovich) 12-y bol'nitsy g. Gor'kogo.

(GYNECOLOGICAL DISEASES, ther.
procaine lumbar block, with penicillin (Rus))
(ANESTHESIA, REGIONAL, in var. dis.
lumbar procaine block in gyn. dis., with penicillin (Rus))
(PENICILLIN, ther. use,
gyn. dis., in lumbar procaine block (Rus))

RABINOVICH, Ye.Z., kand.med.nauk

Combined method of general and local anesthesia in gynecological laparotomies. Sbor. nauch. rab. Kaf. akush. i gin. GMI no.1:176-178 '60. (MIRA 15:4)

1. Iz ginekologicheskogo otdeleniya (zav. Ye.Z.Rabinovich, konsul'tant - prof. G.K.Cherepakhin) 12-y bol'nitsy gor. Gor'kogo.
(ANESTHESIA) (GYNECOLOGY)

RABINOVICH, Ye.Z., kand.med.nauk

Sulfanilimide calculosis of the kidneys. Sbor.nauch. rab. Kaf. akush. i gin. GMI no.1:191-192 '60. (MIRA 15:4)

1. Iz ginekologicheskogo otdeleniya (zav. Ye.Z.Rabinovich, konsul'tant - prof. G.K.Cherepakhin) bol'nitsy No.12 g. Gor'kogo.
(CALCULI, URINARY) (SULFATHIAZOLE--TOXICOLOGY)

RABINOVICH, Ye.Z., kand.med.nauk

Cancer of the cervix uteri and pregnancy. Sbor. nauch. rab. Kaf. akush. i gin. GMI no.1:209-211 '60. (MIRA 15:4)

1. Iz ginekologicheskogo otdeleniya (zav. Ye.Z.Rabinovich, konsul'tant - prof. G.K.Cherepakhin) 12-oy bol'nitsy g.Gor'kogo.
(UTERUS--CANCER) (PREGNANCY, COMPLICATIONS OF)

RABINOVICH, Ye.Z., kand.med.nauk

Results of surgery to remove the uterus and vagina in prolapse after our modification. Sbor. nauch. rab. Kaf. akush. i gin. GMI no.1:230-232 '60. (MIRA 15:4)

1. Iz ginekologicheskogo otdeleniya (zav. Ye.Z.Rabinovich, konsul'tant prof. G.K.Cherepakhin) 12-y bol'nitsy gor.Gor'kogo.
(HYSTERECTOMY) (VAGINA--SURGERY)

RABINOVICH, Ye.Z., kand.med.nauk

Diagnosis of incomplete perforation of the uterus in abortions.
Akush.i gin. 36 no.5:97-98 S-O '60. (MIRA 13:11)

1. Iz ginekologicheskogo otdeleniya (zav. Ye.Z. Rabinovich; konsul'tant - prof. G.K. Cherepakhin) 12-y bol'nitsy g. Gor'kogo.
(ABORTION) (UTERUS--WOUNDS AND INJURIES)

RABINOVICH, Ye.Z., kand.med. nauk

Cervical pregnancy. Kaz.med. zhur. no.1:83-84 Ja-F'63
(MIRA 16:11)

1. Ginekologicheskoye otdeleniye (zav.- Ye.Z.Rabinovich, konsul'tant - prof. G.K.Cherepakhin) 12-y bol'nitsy g.Gor'kogo.

RABINOVICH, Ye.Z., kand. m[illegible]

Postabortal septic anuria. Kaz. med. zhur. 4:38-40 Jl-Ag'63
(MIRA 17:2)

1. Ginekologicheskoye otdeleniye (zav. - Ye. Z.Rabinovich, nauchnyy rukovoditel' - prof. G.K.Cherepakhin) 12-y bol'nitsy Gor'kogo.

RABINOVICH, Ye.Z., kand.med.nauk (Gor'kiy)

Some accessory diagnostic symptoms in gynecology. Kaz. med. zhur. 4:63 Jl-Ag '63 (MIRA 17:2)

BABINOVICH, E. Z.

"Experimental Study of Metal Movement Melted in an Open Canal," Dokl. AN SSSR, 54, No.3, 1946

RABINOVICH, Ye.Z., kandidat tekhnicheskikh nauk, dotsent.

Calculating uneven laminar flow of liquids. Trudy MNI no.11:326-335 '51. (MLRA 10:3)
(Hydrodynamics)

KOCHIN, Nikolay Yevgrafovich; KIBEL', Il'ya Afanas'yevich; ROZE, Nikolay Vladimirovich; RABINOVICH, Ye.Z., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor

[Theoretical hydromechanics] Teoreticheskaia gidromekhanika. Izd. 5-oe, ispr. i dop. Moskva, Gos.izd-vo tekhniko-teoret.lit-ry. Pt.1. 1955. 560 p. (MLRA 9:2)

(Hydromechanics)

RABINOVICH, Yefim Zinov'yevich; ARKHANGEL'SKIY, V.A., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor.

[Hydraulics] Gidravlika. Izd.2-oe, ispr. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1956. 395 p. (MIRA 9:6)
(Hydraulics)

RABINOVICH, YE. Z.

"Some Problems of the Hydraulics of Molten Metals."

Hydrodynamics of Molten Metals (Gidrodinamika rasplavlennykh metalov; trudy pervogo soveshchaniia po teorii liteinykh protsessov. Moskva, Izd-vo Akad. nauk SSSR, 1958, 257 pp.

(Proceedings of the First Conference on the Theory of Casting Processes)

Petroleum Institute imeni I. M. Gubkin

RABINOVICH, Ye.Z.

Characteristics of the flow of molten metals near the crystallization temperature. Trudy MNI no.23:176-184 '58. (MIRA 12:1)

(Liquid metals)

VIL'KER, David Semenovich; RABINOVICH, Ye.Z., red.; MURASHOVA, N.Ya., tekhn.red.

[Practical laboratory work in hydromechanics] Laboratornyi praktikum po gidromekhanike. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 351 p. (MIRA 12:10)

1. Gidrodinamicheskaya laboratoriya Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova (for Vil'ker).
(Fluid mechanics)

PHASE I BOOK EXPLOITATION SOV/4199

Leningrad. Politekhnicheskiy institut

Sovremennyye dostizheniya liteynogo proizvodstva; trudy mezhvuzovskoy nauchno-tekhnicheskoy konferentsii (Recent Achievements in Founding: Transactions of the Scientific and Technical Conference of Schools of Higher Education) Moscow, Mashgiz, 1960. 336 p. Errata slip inserted. 4,000 copies printed.

Resp. Ed.: Yu. A. Nekhendzi, Doctor of Technical Sciences, Professor; Eds.: N. G. Girshovich, Doctor of Technical Sciences, Professor, and K. P. Lebedev, Docent; Managing Ed. for Literature on Heavy Machine Building (Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer; Tech. Eds.: Ye. A. Dlugokanskaya, and L. V. Shchetinina.

PURPOSE: This book is intended for the technical personnel of foundries. It may be used by students of the field.

COVERAGE: This collection of articles discusses problems in founding processes. Individual articles treat the melting of metals and their alloys, mechanization and automation of casting processes, aspects of the manufacture of steel, cast iron, and nonferrous metal castings. No personalities are mentioned. References accompany individual articles.

Card 3/9

RABINOVICH, Ye.Z.

Method of experimentally investigating the rate of metal flow in foundry molds. Izv.vys.ucheb.zav.; chern.met. no.3:185-188 '60. (MIRA 13:4)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti.
(Liquid metals) (Founding)

SOV/137-59-7-14596

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 7, p 56 (USSR)

AUTHOR: Rabinovich, Ye.Z.

TITLE: Peculiarities in the Flow of Molten Metals Near Crystallization Temperatures

PERIODICAL: Tr. Mosk. neft. in-t, 1958, Nr 23, pp 176-184

ABSTRACT: It was stated that molten metals near the solidification point were anormal non-Newton liquids. They were not subjected to the law of internal friction, and approached the Shvedov-Binkhgam law. They are characterized by a new physical property - the initial shear stress depending on the temperature of the molten metal. For molten metals near the solidification point the shape of discharge characteristics changes. In this case they do not pass through the origin, as in the case of Newton liquids, but through "zero" points. The location of "zero" points on the ordinate axis is determined by the magnitude of the initial pressure; it changes depending on the temperature of the liquid. (Graphs are presented for Wood's alloy at 97 and 90°C, paraffin and water.) In zones of high temperatures molten metals behave like

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SOV/137-59-7-14596

Peculiarities in the Flow of Molten Metals Near Crystallization Temperatures

Newton liquids. The information includes description of a device for determining discharge characteristics, and of a device for measuring the static shear stress.
O.M.

Card 2/2

21790
S/123/61/000/004/012/027
A004/A104

11,3950

AUTHOR: Rabinovich, Ye. Z.

TITLE: On the mechanism of motion of molten metals

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 4, 1961, 3, abstract 4G21. (V sb. "Sovrem. dostizh. liteyn. proiz-va". Moscow-Leningrad, Mashgiz, 1960, 35-41)

TEXT: The author investigates the physical basis of the motion of molten metals. In the superheated state metals move similar to the Newtonian fluids, while at reduced temperatures near the crystallization point they move similar to anomalous Newtonian fluids for which the following dependence is justified: $\tau = \tau_o + \mu \frac{dv}{dy}$, where τ is the full friction stress, τ_o = initial shear stress, which, after being attained, puts the fluid into motion, μ - viscosity, $\frac{dv}{dy}$ is the velocity gradient. At temperatures exceeding considerably the solidification temperature, the melt does not possess any static shear stress ($\tau_o = 0$). At temperatures near the solidification temperature the static shear stress grows abruptly. According to hydraulic data an initial pressure of $H_o = \frac{4\tau_o L}{\gamma d}$ is necessary for the flowing of a fluid of specific gravity γ along a horizontal

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21790

S/123/61/000/004/012/027
A004/A104

On the mechanism of motion of molten metals

cylindrical pipeline of diameter d and length L. If $H<H_o$, the fluid in the pipe is at rest. If $H>H_o$, the fluid will move. As a result of the investigations carried out the problem of the form of delivery characteristics has been elucidated.

B. Pushin

[Abstractor's note: Complete translation]

Card 2/2

BUKLER, Veniamin Osherovich; VALYAYEV, Ivan Nikitich, RABINOVICH, Yuriy Izrailevich; ZHUKOV, V.A., redaktor; ZABRODINA, A.A., tekhnicheskiy redaktor.

[Assembling radio equipment] Montazh radioapparatury. Moskva, Gos. energ. izd-vo, 1956. 312 p. (MLRA 9:6)
(Radio--Apparatus and supplies)

PHASE I BOOK EXPLOITATION 1184

Bukler, Veniamin Osherovich, Valyayev, Ivan Nikitich (Deceased), Kazarinov, Yuriy Mikhaylovich, Rabinovich, Yuriy Izrailevich, Angelevich, Naum El'khonovich

Regulirovka radioapparatury (Adjustment of Radio Communications Equipment) Moscow, Gosenergoizdat, 1957. 375 p. 20,000 copies printed.

Ed.: Zhukov, V.A.; Tech. Eds.: Soboleva, Ye.M. and Zabrodina, A.A.

PURPOSE: The book is a textbook for students of technical and vocational schools. It may also be used by the radio industry for on-the-job training of workers as factory technicians engaged in adjusting and tuning radio equipment.

COVERAGE: The authors provide basic information on the adjustment and tuning of radio communications equipment. They describe methods of adjusting and tuning power supply circuits, superheterodyne receivers, television sets, transmitters, radar equipment, and other devices. They also describe the testing of radio communications equipment. According to the authors the book represents the first systematic account of techniques employed in adjusting and tuning various types of equipment under laboratory conditions and during lot- and mass production. It is stated that the book is based on the program for the radio-tech-

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nician's course adopted in schools of the State labor force. It is assumed that the reader is acquainted with the fundamentals of electricity and radio. Chapters 1,3,8,10 and Section 4 of Chapter 4 were written by B.O. Bukler; Chapter 6 and Sections 1,2 and 5 of Chapter 4 were written by I.N. Balyayev; Chapter 9 by Yu.M. Kazarinov; Chapter 2 by Yu.I. Rabinovich; Chapters 5 and 7 by N.E. Angelevich; and Section 3 of Chapter 4 by I.N. Valyayev and Yu.I. Rabinovich. The authors thank V.A. Volgov for reviewing the manuscript and V.A. Zhukov for editing the text. There are 38 references, all Soviet.

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Adjustment of Radio Communications (Cont.)

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Adjustment of Radio Communications (Cont.)

AVAILABLE: Library of Congress (TK7870.R38)

Card 6/6

JP/fal
2-17-59

RABINOVICH, Yu.I

49-12-7/16

AUTHOR: Shifrin, K.S. and Rabinovich, Yu.I.

TITLE: Spectral Indicatrices of Large Water Drops and Spectral Polarisation of Rainbows (Spektral'nye indikatrisy krupnykh kapel' vody i spektral'naya polyarizatsiya radug)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1957, No.12, pp. 1491 - 1506 (USSR).

ABSTRACT: Applying formulae of geometrical optics and taking into consideration the $m(\lambda)$ characteristics for liquid water (m - refractive coefficient), the spectral indicatrices of scattering of light on large water drops are calculated for that part of the spectrum where the absorption by water can be disregarded (near ultra-violet, visible and near infra-red ranges). The polarisation of coloured arcs in rainbows is calculated. The tables of the indicatrices $\tau_{s,p}^{(k)}$ for various values of n are calculated in the same way as in an earlier paper of one of the authors [Ref.2]; for each value of n five orders of scattering are calculated and, thereby, about 99.8% of the light scattered by a drop is taken into consideration. Indicatrices were calculated for scattering angles β = 0.1, 2 and 5 and for steps of 5^0 each up to 180^0, separately for the s and p components. The results of the calculations are entered in Table 6, pp. 1494 - 1502. The calculations carried out in

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Spectral Indicatrices of Large Water Drops and Spectral Polarisation of Rainbows.

the paper enable evaluating the accuracy with which the dependence of n on λ can be disregarded inside a given spectral range, i.e. to what extent the drop can be considered as being "grey". Usually, this is done for the entire visible range and, generally, for the entire here considered spectral range. For water drops, the magnitude of n can be assumed constant and equalling 1.3300 for the entire range. In calculating the intensity according to the formulae of geometrical optics, the model of the "grey" drop results in an error which, for most angles, does not exceed $\pm$ 10% and, therefore, taking into consideration change of n as a function of λ, calculated according to accurate diffraction formulae, the error will be of about the same magnitude. This is important since all the tabulation of accurate formulae for scattering on a drop is made for n = 1.3300 and is usually applied for calculations within a wide range of the spectrum in which n cannot be considered constant. The here described calculations can also be applied for any large spherical particles for which the relative refraction coefficient is within the range 1.3200 to 1.3450. There are 4 figures, 7 tables and 2 Slavic references.

49-12-7/16

Spectral Indicatrices of Large Water Drops and Spectral Polarisation of Rainbows.

ASSOCIATION: Main Geophysical Observatory im. A.I. Voyeykov (Glavnaya Geofizicheskaya Observatoriya im. A.I. Voyeykova)

SUBMITTED: November 28, 1956.

AVAILABLE: Library of Congress.

Card 3/3

Rabinovich, Yu. I.

PHASE I BOOK EXPLOITATION SOV/4147
SOV/2-S-100

Leningrad. Glavnaya geofizicheskaya observatoriya

Issledovaniye radiatsionnykh protsessov (Investigation of Radiation Processes). Leningrad, Gidrometeoizdat, 1960. 197 p. (Series: Its: Trudy, vyp. 100) Errata slip inserted. 1,000 copies printed.

Additional Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed. (Title page): K.S. Shifrin, Doctor of Physics and Mathematics, and V.L. Gayevskiy, Candidate of Geography; Ed. (Inside book): L.P. Zhdanova; Tech. Ed.: M.I. Braynina.

PURPOSE: The publication is intended for meteorologists and students of hydrometeorology at higher technical schools.

COVERAGE: This issue of the Transactions of the Main Geophysical Observatory imeni A.I. Voyeykov contains 27 articles on investigations of the radiation processes occurring in the atmosphere and on the active surface. Individual articles on the following topics are included: Light dispersion in a two-layered atmosphere, comparative analysis of sighting conditions under a cloudy and a cloudless sky, investigation of long-wave radiation of the atmosphere, electronic temperature controller, aircraft instruments for measuring the spectral optical characteristics of the atmosphere and the underlying surface, and the dependence of long-wave atmospheric radiation upon the meteorological elements. References accompany

BUKLER, Veniamin Osherovich; RABINOVICH, Yuriy Izrailevich; ANGELEVICH, N.E., inzh., retsenzent; GIRSHMAN, G.Kh., inzh., retsenzent; LOMONOSOV, S.Ya., inzh., retsenzent; RUBINCHIK, N.M., inzh., retsenzent; FEDOSEYEV, D.N., red.; ZHITNIKOVA, O.S., tekhn.red.

[Assembling of radio equipment] Sborka radioapparatury. Moskva, Gos.energ.izd-vo, 1960. 347 p. (MIRA 13:12)
(Radio--Equipment and supplies)

Rabinovich, Yu. I.

PHASE I BOOK EXPLOITATION SOV/[illegible]

Issledovaniya po sovremennym problemam teorii funktsiy [illegible]; sbornik statey (Investigation of Modern Problems in [illegible] Variables; Collection of Articles) Moscow, [illegible] 3,000 copies printed.

Ed. (Title page): A. I. [illegible]; S. Ya. [illegible]; Tech. Ed.: N. [illegible]

PURPOSE: This book is intended for [illegible] complex variable. [illegible] scientific workers, and [illegible]

COVERAGE: The book contains [illegible] Conference on the Theory of Functions of [illegible] University from May [illegible] in the modern theory of functions [illegible] into 7 parts. The first part [illegible] series, boundary and extremal [illegible] functions and interpolation [illegible] discusses functions of many complex variables. [illegible] conformal mappings and [illegible] Riemann surfaces and the theory of [illegible] discusses generalized analytic functions, [illegible] miscellaneous problems. No personalities are mentioned. References accompany each article.

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RABINOVICH, Yu.I.

Airborne apparatus for measuring spectral optical characteristics of the atmosphere and the underlying surface. Trudy GGO no.100: 115-123 '60. (MIRA 13:6)
(Meteorological optics) (Spectrophotometry)
(Aeronautics in meteorology)

S/169/62/000/006/059/093
D228/D304

3,5150

AUTHOR: Rabinovich, Yu. I.

TITLE: Vertical distribution of the dilution factor in the lower troposphere

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 27, abstract 6B188 (V sb. Aktinometriya i atmosfern. optika, L., Gidrometeoizdat, 1961, 146-149)

TEXT: The dilution factor was determined from the data of solar radiation measurements at different levels above the ground surface in several spectral areas. Measurements were conducted by means of a photometer, provided with interference filters with maximum transmissions at 400, 500, 600, 700 and 900 mμ. Data are cited about the change in the aerosol dilution factor with altitude near Simferopol'. The dependence of the aerosol dilution factor on the altitude is described fairly well by an exponential formula of the type: $b = b_0 \exp(-\beta z)$. Divergences between the experimental and the calculated factors do not exceed 15 - 20%. Aerosol dilution factors

Card 1/2

39085
S/169/62/000/006/059/093
D228/D304

Vertical distribution of ...

have a complex relation to the wave-length; on an average they diminish with increasing wave-length, except for the area in the vicinity of 950 mμ where there are water-vapor bands. [Abstracter's note: Complete translation.]

Card 2/2

S/169/61/000/011/037/06
D228/D304

3,5150

AUTHOR: Rabinovich, Yu.I.

TITLE: Vertical distribution of aerosol weakening in the troposphere

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 27, abstract 11B194 (Tr. Gl. geofiz. observ., no. 118, 1961, 18 - 25)

TEXT: The results of aircraft measurements of the vertical distribution of the spectral aerosol coefficients of weakening to a height of about 6000 - 7000 m in the 0.4 - 1.0 μ region are examined. The possibility of approximating experimental data to an exponential relationship is appraised. The spectral relations of the coefficient of weakening are considered under different conditions. [Abstractor's note: Complete translation].

Card 1/1

RABINOVICH, Yu.I.

Altitudinal variations of spectral contrasts in the free atmosphere. Trudy GGO no.118(62)-68 '61. (MIRA 14:8)
(Meteorological optics)

31258
S/531/61/000/118/003/004
D218/D302

3,5150

AUTHORS: Rabinovich, Yu. I., and Guseva, L. N.

TITLE: Experimental studies of the spectral transparency of the atmosphere

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy. No. 118, 1961. Issledovaniya radiatsionnykh protsessov, 69-76

TEXT: The authors describe studies of the spectral transparency of the atmosphere, whose aim was to obtain more accurate average values for the transparency coefficient in the visible part of the spectrum for different geographical locations and times of year. A further aim was to obtain correlations between the spectral transparency coefficients and the overall actinometric measurements. The apparatus employed in the measurements is illustrated schematically in Fig. 1. The emf produced in the actinometer by the incident radiation gives rise to the current i_1 in the curcuit I and this is

Card 1/4

BUKLER, Veniamin Osherovich; VALYAYEV, Ivan Nikitich[deceased];
RABINOVICH, Yuriy Izrailevich; ANGELEVICH, N.E., red.;
ZHITNIKOVA, O.S., tekhn. red.

[Installation of radio equipment]Montazh radioapparatury.
Izd.2., perer. Moskva, Gosenergoizdat, 1962. 341 p.
(MIRA 15:11)
(Radio)

RABINOVICH, Yu.I.

Attenuation of solar radiation in the upper strata of the troposhere. (MIRA 15:6)
Trudy GGO no.125:54-57 '62.
(Solar radiation)

RABINOVICH, Yu.I.; KAZAKOVA, K.V.

Luminosity distribution in the cloudless sky, expressed in absolute units, for selective radiation receivers. Trudy GGO no.125:58-61 '62. (MIRA 15:6)
(Atmospheric transparency) (Solar radiation)

BUKLER, Veniamin Osherovich; KAZARINOV, Yuriy Mikhaylovich; RABINOVICH, Yuriy Izrailevich; ANGELEVICH, Naum El'khonovich; VLADIMIROV, L.P., red. ; GIRSHMAN, G.Kh., red.

[Adjustment of radio equipment] Regulirovka radioapparatury. Izd.2., perer. [By] V.O.Bukler i dr. Moskva, Energiia, 1964. 430 p. (MIRA 17:10)

RABINOVICH, YU. I.

Dissertation defended for the degree of Candidate of Physicomathematical Sciences at the Institute of Atmospheric Physics in 1962:

"Spectral Attenenuation and Contrast in the Open Atmosphere."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

"Experimental investigations of spectral extinction of short wave radiation in the free atmosphere."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

GAYEVSKIY, V.A.; MARKOVICH, E.I.

Allowing for the effect of the atmosphere on measurements of the radiation temperature of the earth's surface from artificial satellites. Trudy GGO no.166:247-260 '64. (MIRA 17:11)

L 49795-65 EEO-2/EWT(d)/FSS-2/EEC(k)-2/EWG(v)/EED-2/EWA(c) Pn-4/Po-4/Pe-5/
Pq-4/Pg-4/Pk-4/Pl-4 IJP(c) BC

ACCESSION NR: AP5010194 UR/0373/65/000/001/0163/0165

AUTHORS: Kljmov, D. M. (Moscow); Rabinovich, Yu. I. (Moscow) 61 B

TITLE: On the effect of corrections on drift of a universal suspension gyroscope fixed on movable base

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 1, 1965, 163-165

TOPIC TAGS: gyroscope, Cardan suspension, gyroscope motion, equation of motion, inertial system

ABSTRACT: The drift rate of a gyroscope around the external axes was determined analytically, including correction effects that would insure that the Cardan [illegible] remained perpendicular. The gyroscope is assumed to remain on a [illegible] corrections. Also, frictional

The positions of [illegible] 1 on the Enclosure). The equations of [illegible] derived, and the drift rate is defined by

$$\langle \alpha' \rangle = -\frac{\langle M_{x'} \rangle}{H}.$$

Card 1/3

L 49795-65

ACCESSION NR: AP5010194

It is then assumed that the gyroscope base fluctuates according to the law

$$\delta = a \sin(\omega t + \varepsilon), \qquad \delta_1 = b \sin \omega t_1$$

and that the corrections are of a relay type. This leads to the expression for the gyroscope drift

$$\langle \alpha' \rangle = -\frac{2}{\pi}\frac{am}{H}\cos\varepsilon.$$

To include the effects of the position correction, the motions of the rotor axes are included. This leads to the expression for the drift rate

$$\langle \alpha' \rangle = -r^2 \tfrac{1}{2} ab\omega \sin\varepsilon - r\sqrt{1 - r^2}\,\tfrac{1}{2} ab\omega \cos\varepsilon$$

Numerical examples are given as illustrations. Orig. art. has: 21 equations and 3 figures.

ASSOCIATION: none

SUBMITTED: 02Nov64 ENCL: 00 SUB CODE: MI

NO REF SOV: 002 OTHER: 000

Card 2/3

L 49795-65
ACCESSION NR: AP5010194

ENCLOSURE: 01
0

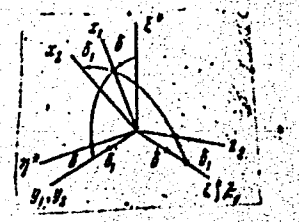

Fig. 1

Card 3/3

GAYEVSKIY, V.L.; RABINOVICH, Yu.I.; RESHETNIKOV, A.I.

Measuring the water temperature of the Caspian Sea by means of a radiation thermometer. Trudy GGO no.170:202-206 '65. (MIRA 18:9)

L 13342-66 EWT(d)/T IJP(c) BC

ACC NR: AP6002319 SOURCE CODE: UR/0373/65/000/006/0049/0052

47
44
43

AUTHORS: Klimov, D. M. (Moscow); Rabinovich, Yu. I. (Moscow)

ORG: none

TITLE: On kinematic errors of inertial navigation systems 9,44,55

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 6, 1965, 49-52

TOPIC TAGS: inertial navigation, error analysis, inertial guidance gyroscope, stabilized platform

ABSTRACT: The motion of an orthogonal trihedron is considered along whose axes gauges are placed to measure angular velocity projections. The analysis consists of estimating the errors existing in such a measurement. The coordinates of the trihedron are given by $\xi\eta\zeta$ relative to a moving set of coordinates $\xi^*\eta^*\zeta^*$ (see Fig. 1). The angles λ, φ and χ are defined by

$$\varphi^{\cdot} = p\cos\chi + r\sin\chi$$
$$\chi^{\cdot} = q + (p\sin\chi - r\cos\chi)\,\mathrm{tg}\,\varphi$$
$$\Lambda^{\cdot} = (r\cos\chi - p\sin\chi)\sec\varphi.$$

where p, q, r are the projections of the trihedron angular velocities on the axes. The errors in p, q, r are assumed to be small, given by

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ACC NR: AP6002319

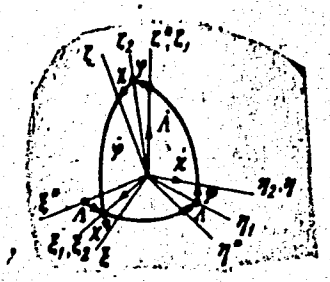

Fig. 1.

$$p = p_1 + \delta_1', \quad q = q_1 + \delta_2', \quad r = r_1 + \delta_3'$$

These are substituted in the above equations and integrated to yield expressions for the cumulative errors for the velocity projections

$$X = \delta_1' \cos(\xi, \xi^*) + \delta_2' \cos(\eta, \xi^*) + \delta_3' \cos(\zeta, \xi^*)$$
$$Y = \delta_1' \cos(\xi, \eta^*) + \delta_2' \cos(\eta, \eta^*) + \delta_3' \cos(\zeta, \eta^*)$$

This analysis is then applied to the case of a gyroscopic platform in an inertial navigation system stabilized by three two-stage gyroscopes. It is shown that the

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L 13342-66

ACC NR: AP6002319

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error in the location and direction of the North in such a system is not cumulative but oscillatory in nature when the error δ is a drift in the platform angular velocity. A similar conclusion is reached with the error analysis of the A. Yu. Ishlinskiy inertial system (PMM, 1957, t. 21, vyp. 6). In conclusion the authors thank I. D. Blyumin, L. N. Slezkin, and Yu. K. Zhbanov for evaluating this work. Orig. art. has: 15 equations and 2 figures.

SUB CODE: 17/ SUBM DATE: 16Jul65/ ORIG REF: 005

Card 3/3 Fw

RABINOVICH, Yu.L.

ulas for two kinds of
ad. Nauk SSSR (N.S.)

stantially those usually
and its inverse and are
infinity [cf. A. Pfluger,
(1935)]. By the intro-
ition, however, the two
a new relationship and
nique is included. The
m Cauchy's theorem.
follows. If $f(z)$ is regu-
or $|z|>\rho$ and satisfies
e "first kind of Laplace
$>\rho$) defines $g(z)$ in the
contour extends to ∞
nalytic continuation of
by rotating this radius
tial type near infinity.
nt branches of $g(z)$ for
$)e^{-wt}g$, where the con-
l extends to infinity in
'first form of transform"
order of integration in
ere results the integral
which, from the calculus
from $2\pi i f(-z)$ by an
functions envisaged the
he inverse of the second
integral function. Con-
inverse of the first in the
more complicated. Con-
distort the contour into
$A>0$ large, $\delta>0$ small).
use the integral defining
infinity in the direction
then proceeds much as

tion between the growth
convex envelope of the
sults and methods are

A. J. Macintyre.

Source: Mathematical Reviews, Vol [illegible] No. [illegible]

RABINOVICH, Yu.L.

Rabinovič, Yu. L. A proof of the closure of certain singular kernels. (Russian) Doklady Akad. Nauk SSSR (N.S.) 61, 215–218 (1948).

Under consideration are kernels $K(x, y)$ defined in $\Delta(a \leqq x, y \leqq b)$ and representable by finite sums of terms of form $|x-y|^{\alpha}H(x, y)$, $|x-y|^{\alpha}\log|x-y|H(x, y)$, $\delta(x, y)|x-y|^{\alpha}H(x, y)$, $\delta(x, y)|x-y|^{\alpha}\log|x-y|H(x, y)$, where $\delta(x, y)=1$ for $y<x$, $\delta(x, y)=-1$ for $y>x$; H and its partial derivatives of all orders are continuous in Δ. Let $D^{l}=\partial^{l}/\partial x^{l}$. Assuming that $D^{n}K>0$ (in Δ) and

$$D^{n}\int_{a}^{b}K(x, y)dy<0$$

(for $a \leqq x \leqq b$), the author proves the following. (I) If $|D^{n}K|<M|x-y|^{-\alpha}$ $(1 \leqq \alpha \leqq 2)$ and

$$J_{m}=\int_{a}^{b}A_{m}dy=\int_{a}^{b}Kdy=\infty$$

for $x=a$ and $x=b$, where $A_{m}=D^{m-1}K-(x-y)D^{m-1}K$, then the kernel $K(x, y)$ is closed in the class of Lipschitz functions.

(II) Suppose $|D^{m-1}K|<M|x-y|^{-\alpha}$, $|D^{m}K|<M|x-y|^{-\alpha-1}$ $(1 \leqq \alpha \leqq 2)$, while the J_{m} and the $J_{m}=dJ_{m}/dx$ are ∞ for $x=a$ and $x=b$; if the order of infinity of J_{m} is higher than that of J'_{m}, then $K(x, y)$ is closed in the class of functions having a Lipschitz derivative.

These results are proved with the aid of the following lemma. If u is Lipschitz, $D^{m}K=H(x, y)|x-y|^{-\alpha}$ $(1 \leqq \alpha \leqq 2)$ and H is bounded, then

$$D^{m}\int_{a}^{b}K(x, y)u(y)dy=\int_{a}^{b}D^{m}K\cdot[u(y)-u(x)]dy+u(x)D^{m}\int_{a}^{b}K(x, y)dy;$$

a similar (but more complex) formula holds when u has a Lipschitz derivative, while $D^{m-1}K=H_{1}(x, y)|x-y|^{-\alpha}$, $D^{m}K=H_{2}(x, y)|x-y|^{-\alpha-1}$ $(1 \leqq \alpha \leqq 2$; H_{i} bounded).

W. J. Trjitzinsky (Urbana, Ill.).

Source: Mathematical Reviews, Vol [illegible] No. [illegible]

RABINOVICH, Yu. L.

300

Rabinovič, Yu. L. The integral theorem of M. V. Ostrogradskiĭ. Uspehi Matem. Nauk (N.S.) 6, no. 5(45), 26–32 (1951). (Russian)

SMW

Source: Mathematical Reviews, Vol 13 No. 5

LIBIN, Z. G. and RABINOVICH, U. L

"Metody Matematicheskoi Fiziki," (Methods of Mathematical Physics), 2d Vol., 544 p., Moscow-Leningrad, 1951. Translated from German by the above.

RABINOVICH, Yu. L.

Calculus, Operational

Continuous dependence of the symmetrical linear integral operator on the parameter. Uch. zap. Nosk. un. No. 148, 1951.

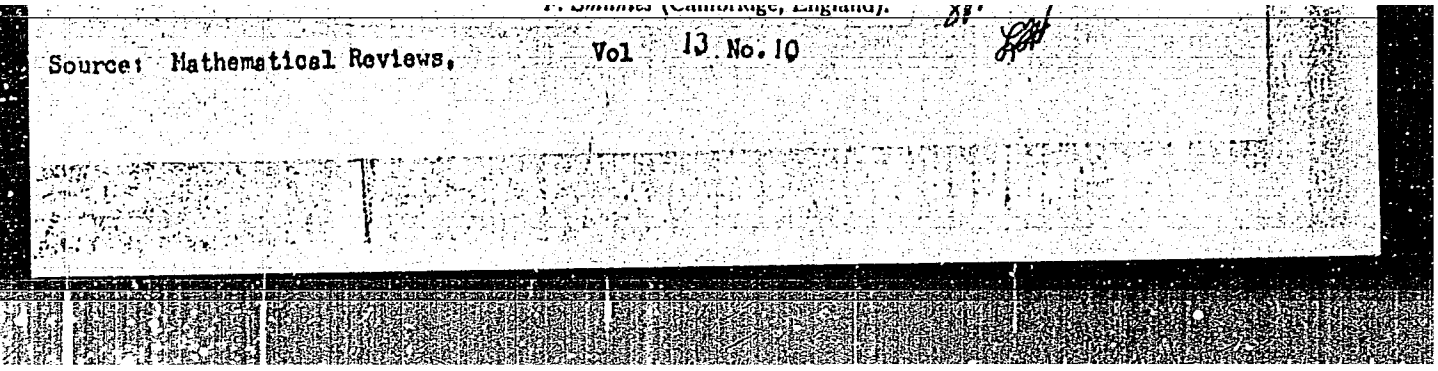
Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

RABINOVICH, Yu. L.

2880

Rabinovič, Yu. L. On the continuous dependence upon a parameter of the characteristic values of linear integral equations. Uspehi Matem. Nauk (N.S.) 7, no. 2(48), 172–174 (1952). (Russian)

The author proves the following result. Let $K(x, y; \mu)$ be defined for $x, y \in B$, $\mu \in G$, where B is a measurable set in R^m, and G is a domain of the complex plane, and suppose that K is continuous in μ for almost all $(x, y) \in B \times B$ and measurable in (x, y) for all $\mu \in G$, and that $|K(x, y; \mu)| < \varphi(x)$, where φ is summable over B. Then the characteristic values of the



RABINVICH, YU. L.

Integral Equations

Constant dependence on the parameter of the proper values of linear integral equations. Usp. Mat. Nauk 7 No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 Unclassified.

RABINOVICH, Yu.L.

Chebyshev-Hermite $H(z,\lambda)$ functions. Uch.zap.Mosk.un. 165: 98-117 '54. (MLRA 8:2)
(Chebyshev's polynomials)

RABINOVICH, Yu.L.

Estimate of the type and order of the exponential increment for solutions of linear differential equations. Uch.zap.Mosk.un. 165:205-207 '54. (MLRA 8:2)
(Differential equations, Linear)

RABINOVICH, Yu. L.

Entire functions represented in the form of Laplace's integral.
Uch. zap. Mosk. un. no.181:199-221 '56. (MLRA 10:4)
(Functions, Entire)

RABINOVICH, Yu.L.

Recurrent differential equations. Uch.zap.Mosk.un. no.186[a]: 179-190 '59. (MIRA 13:6)
(Differential equations)

69474

S/055/59/000/05/007/020

16.3400

AUTHOR: Rabinovich, Yu. L.

TITLE: The Behavior of the Solutions of Linear Differential Equations of Second Order at Infinity

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, No. 5 pp. 53-64

TEXT: Functions $y(x)$ which satisfy for sufficiently large x_0 the conditions

(3) $|y(x)| \leqq A$, $\max_{x \geqq x_1 \geqq x_0} |y(x)| \geqq B$

with certain constants A and B depending on $\varphi(x)$ are said to belong to the class (0).

Theorem 1: If the equation

(4) $y'' + 2p(x)y' + q(x)y = 0$

satisfies for $x \geqq x_0$ the condition

(5) $0 < a^2 \leqq q(x) - p^2(x) - p'(x) \leqq b^2$

The Behavior of the Solutions of Linear Differential Equations of Second Order at Infinity

and if $q' - 2pp' - p''$ for $x \geq x_0$ is of constant sign, then every solution of (4) has the form $y = e^{-\int p\,dx} u$, where u is a function of the class (0).

Theorem 2: If for $x \geq x_0$ it is

$$(10) \qquad \left| p(x) + \frac{\varrho - 1}{2x} \right| \leq P x^{\varrho - 1}, \qquad |q(x)| \leq Q x^{2\varrho - 2}$$

where P = const, Q = const, $\varrho > 0$, then every solution of (4) satisfies the inequalities

$$(11) \qquad A e^{-\frac{\lambda_0}{\varrho}(x^\varrho - x_0^\varrho)} < \alpha_0 |y(x)| + \frac{|y'(x)|}{x^{\varrho-1}} < A e^{\frac{\lambda_0}{\varrho}(x^\varrho - x_0^\varrho)}$$

where $\lambda_0 = \sqrt{P^2 + Q^2} + P$ and $A = \alpha_0 \left(|y(x_0)| + \frac{\lambda_0 |y'(x_0)|}{Q x_0^{\varrho-1}} \right)$.

Theorem 3 follows from theorem 2 for the equation (4), where it is put $x = e^t$.

Theorem 4: Let the equation $y'' + q(x)y = 0$ be given. If for $x \to \infty$ it is $q(x) \simeq a_0 x^\mu$, then for $\mu < -2$ it is $y(x) \simeq Ax + B$, for $\mu = -2$,

Card 2/3 $\alpha_0 < \frac{1}{4}$: $y(x) \simeq A x^{\frac{1}{2} + \sqrt{\frac{1}{4} - \alpha_0}} + B x^{\frac{1}{2} - \sqrt{\frac{1}{4} - \alpha_0}}$

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The Behavior of the Solutions of Linear Differential Equations of Second Order at Infinity

etc. in the cases $\alpha = -2$, $a_0 > \frac{1}{4}$, $\alpha > -2$ and the case $q(x) \simeq a_0 x^{\alpha} \exp(\gamma x^{\beta})$.

SUBMITTED: April 18, 1957

Card 3/3

4

~~16(1)~~ 16.3400 66724

AUTHORS: Rabinovich, Yu.L., Khapayev, M.M. SOV/20-129-2-9/66

TITLE: Linear Equations Involving a Small Parameter With the Highest Derivative in the Neighborhood of a Regularly Singular Point

PERIODICAL: Doklady Akademii nauk SSSR,1959,Vol 129,Nr 2,pp 268-271(USSR)

ABSTRACT: Consider the equation

$$(1) \qquad \bar{L}[w] = \varepsilon z^{m} w^{(m)} + \sum_{k=0}^{\infty} \varepsilon^{k} \bar{L}_{k}[w] = 0,$$

where $\bar{L}_{k}[w] = \sum_{s=0}^{m-1} z^{s} \bar{q}_{ks}(z) w^{(s)}$, where the $\bar{q}_{ks}(z)$ are holomorphic for $z=0$, $\bar{q}_{0,m-1}(0) \neq 0$, so that $z=0$ is a regularly singular point of the equations $\bar{L}[w] = 0$, $\bar{L}_{0}[w] = 0$. Let $\varrho_{1}(\varepsilon)$ be a root of the defining equation of (1) which for $\varepsilon \to 0$ passes over into the root ϱ_{1} of the defining equation of the degenerated system ($\varepsilon = 0$) $\bar{L}_{0}[w] = 0$. Let $w_{0}(z)$ be the solution of $\bar{L}_{0}[w] = 0$ for which $\lim_{z \to 0} \frac{w_{0}(z)}{z^{\varrho_{1}}} = 1$; $w(z,\varepsilon)$ the

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SOV/20-129-2-9/66

Linear Equations Involving a Small Parameter With the Highest Derivative in the Neighborhood of a Regularly Singular Point

solution of $\tilde{L}[w] = 0$ for which $\lim_{z \to 0} \frac{w(z,\varepsilon)}{z^{\varphi_1(\varepsilon)}} = 1$. The authors show that under certain assumptions for $\varepsilon \to 0$ the solution $w(z,\varepsilon)$ passes over asymptotically into $w_0(z)$.

There are 4 references, 3 of which are Soviet, and 1 Belgian.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

PRESENTED: July 3, 1959, by I.G.Petrovskiy, Academician

SUBMITTED: July 2, 1959

Card 2/2

26496
S/044/61/000/004/006/033
C111/C222

16.4600

AUTHOR: Rabinovich, Yu. L.

TITLE: On entire functions being representable as Laplace integrals II

PERIODICAL: Referativnyy zhurnal. Matematika, no. 4, 1961, 22-23 abstract 4 B 112. ("Issled. po sovrem. probl. teorii funktsiy kompleksn. peremennogo". M., Fizmatgiz, 1960, 186-194

TEXT: Part I cf. R zh Mat, 1958, 268. L_α denotes the class of functions $f(\zeta)$ being analytic in the region H_α :

$$-\frac{\pi}{2}-\frac{\pi}{\alpha}<\arg\zeta<-\frac{\pi}{2} \qquad (\alpha>1)$$

and satisfying the conditions : a) for $\zeta\to\infty$ in the angular region $H_{\alpha,\delta}$: $-\frac{\pi}{2}-\frac{\pi}{2}+\delta\le\arg\zeta\le-\frac{\pi}{2}-\delta$ ($\delta>0$ arbitrary number) there holds the relation

$$\lim_{\zeta\to\infty}\frac{\ln\ln\frac{1}{|f(\zeta)|}}{\ln|\zeta|}=\lambda>\lambda_1>1\,.$$

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C111/C222

On entire functions being ...

b) In the neighborhood of $\zeta = 0$ in the region $H_{\alpha,\delta}$ it holds $|f(\zeta)| < B_\delta |\zeta|^{\beta-1}$ ($\beta>0$; B_δ - - a constant). Furthermore L''_α denotes the class of entire functions of finite order

$$\nu = \overline{\lim_{|z|\to\infty}} \frac{\ln \ln |F(z)|}{\ln |z|} \quad \left(\nu \geqslant \frac{\alpha}{\alpha - 1} > 1\right)$$

satisfying the condition $|F(z)| < C_\delta / |z|^\beta$ in the region $D_{\alpha,\delta}$: $\delta \leq \arg z \leq$ $\leqq \pi + \frac{\pi}{2} - \delta$. Under these assumptions the author proves the theorem : In order that an entire function $F(z)$ is representable as a Laplace integral of a function $f(\zeta)$ of the class L_α :

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26496
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C111/C222

On entire functions being ...

$$F(z) = \int_{0}^{\infty e^{i\theta}} e^{-z\zeta} f(\zeta)d\zeta \qquad (\arg \zeta = \theta \in H_{\alpha})$$

it is necessary and sufficient that F(z) belongs to the class L''_{α} .

[Abstracter's note : Complete translation.]

Card 3/3

RABINOVICH, Yu.L.; NESTEROV, S.V.

General form of linear differential equations whose order is lowered by means of the D operator of generalized differentiation. Dokl. AN SSSR 137 no.6:1309-1311 Ap '61. (MIRA 14:4)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. Predstavleno akademikom I.G.Petrovskim.
(Differential equations, Linear) (Operators (Mathematics))

FROLOV, A.G., doktor tekhn.nauk; BORISENKO, L.D., kand.tekhn.nauk; TYURKIN, M.N., inzh.; ZHILIN, A.M., inzh.; RABINOVICH, Yu.M., inzh.; POLOSUKHIN, A.Ya., inzh.

Loading machines for high-pressure hydraulic conveying of coal and rocks. Ugol' Ukr. 3 no.10:13-16 O '59.
(MIRA 13:2)

(Hydraulic mining) (Mine haulage)

L 64993-65 EWT(1)/EPA(s)-2/EPF(n)-2/T-2/ETC(m) WW
ACCESSION NR: AP5022046 UR/0286/65/000/014/0115/0115
621.67

AUTHOR: Vasil'tsov, E. A.; Rabinovich, Yu. R. 31 B

TITLE: Labyrinth pump. Class 59, No. 173125

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 115

TOPIC TAGS: labyrinth pump, pump

ABSTRACT: An Author Certificate has been issued for a labyrinth pump consisting of a rotor and a sleeve with threads running in opposite directions. To increase the pressure head, both the rotor and the sleeve are made conical in shape. [PS]

ASSOCIATION: Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i konstruktorskogo instituta khimicheskogo mashinostroyeniya (Leningrad Branch, All-Union

Scientific Research and Design Institute for Chemical Machine-Building 44,55

SUBMITTED: 13Jan64 ENCL: 00 SUB CODE: IE

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4079

Card 1/1

USSR/General Problems of Pathology - Tumors. Tumor of Man. U.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 98369

Author : Rabinovich, Yu.Ya.
Inst :
Title : Osteogenic Sarcoma Which Develop on the Basis of Paget's Disease.

Orig Pub : Khirurgiya, 1957, No 7, 91-97.

Abstract : Of 30 cases of osteogenic sarcoma a tumor in bones affected with Paget's disease (secondary osteogenic sarcoma) appeared in 2 patients aged 54 and 60 years. The case histories are given in detail. Roentgenography produced no effect. The increase of pains, appearance of fast-growing swelling and roentgenologically-determinable regions of bone destruction in the presence of Paget's disease, are, in the author's opinion, a basis for determination of a diagnosis of malignant change. -- A.I. Ashkenazi

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RABINOVICH, Yu.Ya., kand. med. nauk.; SHAPIRO, Yu.V. (Moskva)

Resuscitation after pachycarpine poisoning. Klin. med. 41 no.7: 140-143 Jl'63 (MIRA 16:12)

1. Iz Moskovskoy gorodskoy klinicheskoy bol'nitsy No.29 imeni N.E.Baumana (glavnyy vrach - kand. med. nauk N.G.Orlov, glavnyy khirurg - kand. med. nauk L.M.Shnaper).

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A rare case of metastatic ascariasis of the heart and of the large vessels. Sov.med. 21 no.1:117-120 Ja '57. (MLRA 10:6)

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heart & large vessels with metastases)