DRMBO, A.G., doktor med.nauk (Leningrad)

Chronic liver diseases; results of the Ninth All-Union Conference of Therapeutists. Klin.med. 36 no.3:8-18 Mr '58. (MIRA 11:4)
(LIVER--DISEASES)

DEMBO, A.G., doktor med.nauk (Leningrad)

In memory of G.F. Lang; on the 10th anniversary of his death.
Klin.med. 36 no.8:10-15 Ag '58 (MIRA 11:9)
(LANG, GEORGII FEDOROVICH, 1875-1948)

DEMBO, A.G., prof. (Leningrad)

Basic problems in sports medicine; results of the Twelfth International Congress of Sports Medicine. Klin.med. 36 no.12:140-142 D '58. (MIRA 12:6)
(SPORTS--HYGIENIC ASPECTS)

MOLCHANOV, N.S., prof., otv.red.; DEMBO, A.G., prof., doktor med.nauk, otv.red.; RYCHKOV, I.I., tekhn.red.

[Problems of vitamin therapy in internal diseases; stenographic account] Voprosy vitaminoterapii vnutrennikh zabolevanii; stenograficheskii otchet. Red.N.S.Molchanov i A.G. Dembo. Leningrad, Gos.izd-vo med.lit-ry, Medgiz, Leningr. otd-nie, 1959. 130 p. (MIRA 13:1)

1. Vsesoyuznaya konferentsiya terapevtov. 10th, Moscow, 1958.
2. Chlen-korrespondent AMN SSSR (for Molchanov).
(VITAMIN THERAPY)

KREPS, Yevgeniy Mikhaylovich; DEMBO, A.G., red.; KULEVA, M.S., tekhn.red.

[Oxihemometry] Oksigemometriia; tekhnika, primenenie v fiziologii i meditsine. Leningrad, Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nie, 1959. 221 p. (MIRA 12:11)

1. Institut fiziologii im. I.P.Pavlova AN SSSR, Leningrad (for Kreps).
(BLOOD--OXYGEN CONTENT)

DEMBO, A.G., prof. (Leningrad)

Oxyhemometry in the physician's practice. Klin.med. 37 no.8: 20-25 Ag '59. (MIRA 12:11)
(OXIMETRY)

DEMBO, A. G.

"KLINISCHE OXYHÄMOMETRIE"

paper presented at the 6th International Congress of Diseases of the Chest of the American College of Chest Physicians, Vienna, Austria, 28 August 0 1 September 1960.

KHVILIVITSKAYA, Mariya Iosifovna. Prinimali uchastiye: ADAMOVA, A.V.; BOGOMAZOVA, V.P.; KALININA, Ye.V.; LIKHNITSKAYA, I.I.; MIKIRTUMOVA, Ye.V.; MIKHAYLOVA, N.F.; NIKIFOROVA, O.A.; SADOF'YEV, A.I.; SEL'KOV, Ye.A.; SOBOLEVA, A.V.; UL'YANOVA, L.S.; KHRUSTINA, S.B.; DEMBO, A.G., red.; KHARASH, G.A., tekhn. red.

[Adjustment of the body following pulmonary resection] O prisposobliaemosti organizma posle rezektsii legkogo. Leningrad, Gos. izdvo med. lit-ry Medgiz, 1960. 170 p. (MIRA 14:9)

1. Kollektiv klinicheskogo otdela Leningradskogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (for all except Khvilivitskaya, Dembo, Kharash).
(LUNGS—SURGERY)

DEMBO, A.G., prof.; LIBERMAN, L.L., kand.med.nauk (Leningrad)

Current status of the problem of hypertension of the lesser circulation; survey of foreign literature. Terap.arkh. 32 no.9:3-14 '60. (MIRA 14:1)

(HYPERTENSION) (PULMONARY ARTERY--DISEASES)

VASIL'YEV, Vyacheslav Aleksandrovich; DEMBO, A.G., red.; CHUNAYEVA, Z.V., tekhn. red.

[Clinical and physiological foundations of the artificial pneumothorax] Kliniko-fiziologicheskie osnovy iskusstvennogo pnevmotoraksa. Leningrad, Medgiz, 1961. 177 p. (MIRA 15:3)

(PNEUMOTHORAX)

DEMBO, A.G.; TYURIN, A.M.

New portable oxyhemometer. Lab. delo [7] no.4:48-50 Ap '61. (MIRA 14:3)

1. Leningradskiy nauchno-issledovatel'skiy institut fizicheskoy kul'tury (dir. V.S.Ryzhkova).
(BLOOD--OXYGEN CONTENT)

DEMBO, A.G., prof.; LIBERMAN, L.L., kand.med.nauk (Leningrad)

Classification of respiratory insufficiency; survey of the literature. Terap.arkh. 33 no.3:3-11 Mr '61. (MIRA 14:3)
(RESPIRATORY ORGANS--DISEASES)

DEMBO, A.G., prof.

Basic preventive measures in diseases of athletes. Sov. med. 25 no.9:67-72 S '61. (MIRA 15:1)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta fizicheskoy kul'tury (dir. - kand.med.nauk V.Ye.Ryzhkova).
(SPORTS MEDICINE)

LETUNOV, S.P., prof., otv. red.; GRAYEVSKAYA, N.D., red.; DEMBO, A.G., red.; SOKOLOV, A.A., red.; BUNKIN, N.A., spets. red. BERZIN, A.A., red.; DOTSENKO, A.A., tekhn.red.

[Medical observations on sportsmen in the process of training] Vrachebnye nabliudeniia za sportsmenami v protsesse trenirovki. Red. koll. S.P.Letunov i dr. Moskva, Izd-vo "Fizkul'tura i sport," 1963. 303 p. (MIRA 16:10)
(SPORTS MEDICINE)

DEMBO, A.G.; TYURIN, A.M.

Bloodless determination of the rate of the blood flow in health and pathology. Trudy Inst. klin. i eksper. kard. AN Gruz. SSR 8: 361-366 '63. (MIRA 17:7)

1. Institut fiziches'koy kul'tury, Leningrad.

TARTAKOVSKIY, Mikhail Borisovich; DEMBO, A.G., red.

[Fundamentals of clinical vectorcardiography] Osnovy klinicheskoi vektorkardiografii. Leningrad, Meditsina, 1964. 434 p. (MIRA 17:5)

MYASNIKOV, A.L., prof., otv. red.; MOLCHANOV, N.S., red.; LUKOMSKIY, P.Ye., prof., red.; VOTCHAL, B.Ye., prof., red.; DEMBO, A.G., prof., red.; MUKHARLYAMOV, N.M., kand. med. nauk, red.

[Transactions of the 15th All-Union Congress of Therapeutists] Trudy Vsesoiuznogo s"ezda terapevtov. Pod obshchei red. A.L. Miasnikova. Moskva, Meditsina, 1964. 529 p. (MIRA 17:6)

1. Vsesoyuznyy s"yezd terapevtov. 15th, 1962. 2. Deystvitel'nyy chlen AMN SSSR (for Myasnikov, Molchanov, Lukomskiy). 3. Chlen-korrespondent AMN SSSR (for Votchal).

DEMBO, A.G.; TYURIN, A.M.

Statistical procedures in studying new medical research methods. Prim. mat. metod. v biol. no.3:164-173 '64. (MIRA 17:11)

1. Institut fizicheskoy kul'tury, Leningrad.

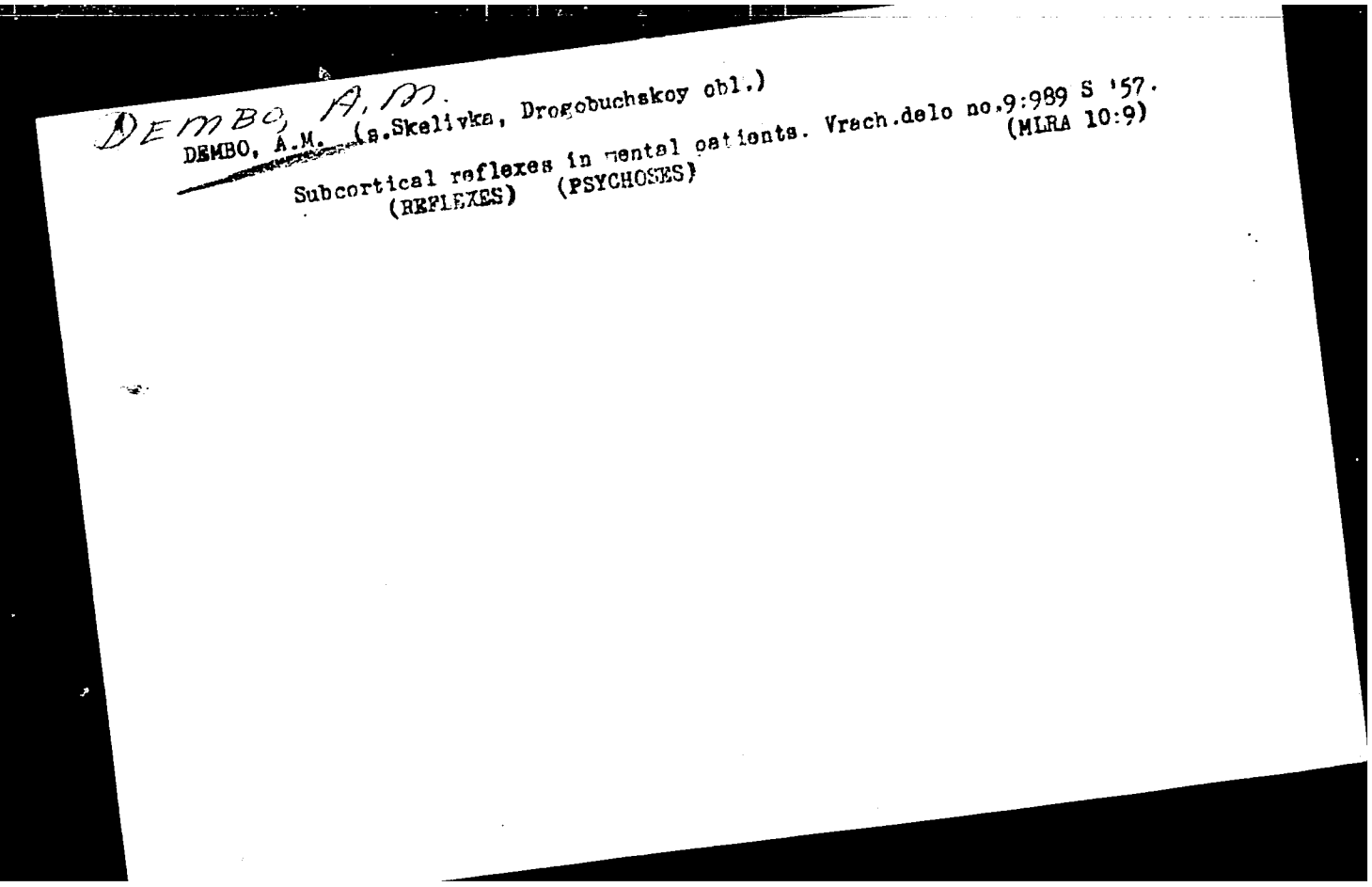
ZYATYUSHKOV, Alfey Ivanovich; DEMBO, A.G., red.

[Reduction of pulmonary gas volumes to normal conditions and calculations of some proper values; principles and tables] Privedenie legochnykh ob"emov gazov k normal'nym usloviiam i raschety nekotorykh dolzhnykh velichin; obosnovanie i tablitsy. Leningrad, Meditsina, 1965. 137 p. (MIRA 18:9)

LEVIN, S.Z.; DINER, I.S.; prinimali uchastiye:; DEMBO, A.I., mladshiy nauchnyy sotrudnik; KUCHINSKIY, V.N., mladshiy nauchnyy sotrudnik; KUCHINSKAYA, Z.Ye., mladshiy nauchnyy sotrudnik; MEZHEBOVSKAYA, Z.Ye., inzh.; DERGACHEVA, R.D., inzh.; DRABKINA, I.Ye., inzh.

Production of motor fuels and chemical products from Baltic shale tars by the destructive hydrogenation method. Trudy VNIIT no.9:65-90 '60. (MIRA 13:11)

(Motor fuels) (Oils shales)



DEMBO, A.M.

DEMBO, A.M. (s.Skelivka, Drogobuchskoy obl.)

Subcortical reflexes in mental patients. Vrach.delo no.9:989 S '57. (MLRA 10:9)
(REFLEXES) (PSYCHOSES)

DEMBO, A.M.

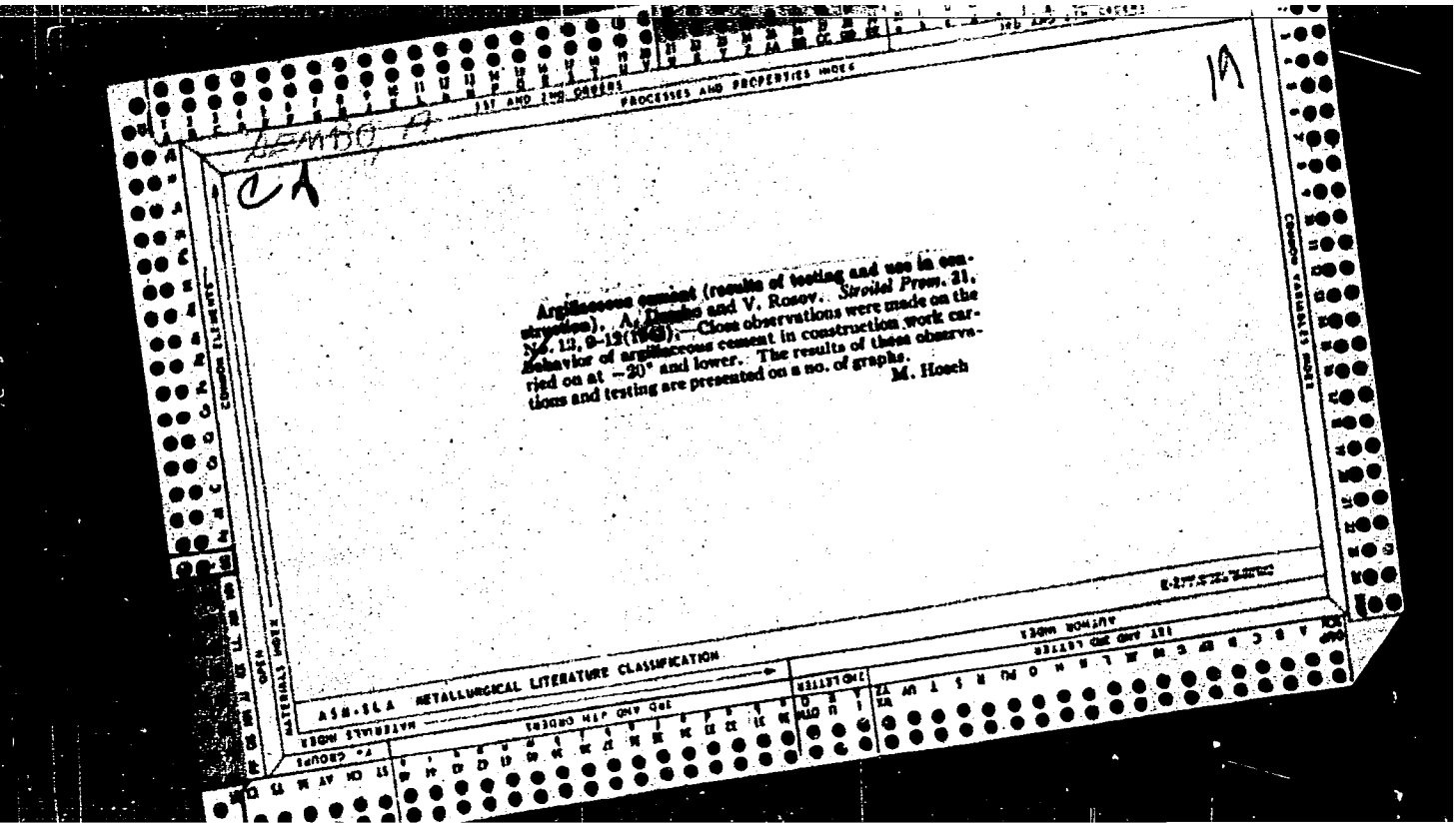
Different nature of conditioned reflex sucking and oral automatism reflexes. Zhur. nevr. i psikh. 59 no.1:68-71 '59. (MIRA 12:3)

1. Drogobychskaya oblastnaya psikhonevrologicheskaya bol'nitsa (glavnyy vrach B.V. Murovich), selo Berezhnitsa, Striyskiy rayon.
(REFLEX
sucking reflex, variability from oral automation reflexes (Rus))

DEMBO, A.M.

Preparation for hypertherapy using acupuncture. Vrach.delo (MIRA 16:2)
no.11:138-139 N '62.

1. Kiyevskaya oblastnaya bol'nitsa.
(HYPNOTISM—THERAPEUTIC USE) (ACUPUNCTURE)



Argillaceous cement (results of testing and use in construction). A. Danilko and V. Rosov. *Stroitel' Prom.* 21, No. 12, 9–13(1943).—Close observations were made on the behavior of argillaceous cement in construction work carried on at −30° and lower. The results of these observations and testing are presented on a no. of graphs.
M. Hosch

DEMBO,A.R., inzhener

Mechanizing laborious construction processes. Stroi.prom.25 no.2: 6-9 F'47. (MLRA 8:12)
(Loading and unloading) (Building machinery)

SOV/112-58-3-4021

8(2)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 79 (USSR)

AUTHOR: Dembo, A. R.

TITLE: New Schemes of Automatic Electric AC Drive With a Wide Speed Regulation (Novyye skhemy avtomatizirovannogo elektroprivoda peremennogo toka s shirokim regulirovaniyem skorosti)

PERIODICAL: V sb.: 15-ya nauchn. konferentsiya Leningr. inzh.-stroit. in-ta. L., 1957, pp 459-464

ABSTRACT: Operating characteristics of an induction motor supplied from an infinite-power AC source are considered. The analysis is based on a simplified equivalent circuit of the induction motor in which the magnetizing circuit is transferred to the input terminals and the stator-winding resistance is neglected. The voltage-frequency relationship, with a specified law of the load-torque variation as a function of rpm, is treated according to the well-known formula of Academician M. P. Kostenko. Formulae are presented for

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8(2)

New Schemes of Automatic Electric AC Drive With a Wide Speed Regulation

calculating the maximum and starting torques, the critical and normal slip, the active current component, and the power factor. The regulation of the induction-motor speed is considered for the cases of constant power and constant torque, as these two load types are most frequent in hoisting-and-transportation and construction machines.

V.V.G.

DEMBO, A.R.

110-9-16/23

AUTHOR: Gnedin, L.P., Candidate of Technical Sciences, Dartau, A.A., Engineer and Dembo, A.R., Candidate of Technical Sciences.

TITLE: A System of Frequency-control for Induction-type Traction Motors for Locomotives. (Sistema chastotnogo upravleniya asinkhronnymi tyagovymi elektrodvigatelyami lokomotivov)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.9, pp. 59 - 65 (USSR)

ABSTRACT: The light weight, simplicity of construction and reliability in operation of squirrel-cage induction motors as compared with direct-current motors are great advantages which offer considerable promise for electric traction. Existing electric locomotives of the single-phase three-phase type with squirrel-cage induction motors (made by Oerlikon for the Valenciennes-Thionville section of the French Railways) do not have sufficient starting torque because there is no way of controlling the voltage on the traction motors. This defect can be overcome if compensated commutator generators with independent excitation are used as variable frequency generators. The two-phase systems in the НЭМ circuit (invented by M.P. Kostenko and V.N. Andreyev) consists of two single-phase commutator generators that can be made with good commutation over the wide frequency range of 0 to 80 c/s and are recommended as a variable frequency

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A System of Frequency-control for Induction-type Traction Motors for Locomotives.

diagram, Fig.5. The resonance connection of field windings was investigated experimentally on a 40 kVA 3-phase generator running at a speed of 2 500 r.p.m. at 170 V and on a two-phase system consisting of two single-phase 1.2 kVA generators of 2 000 r.p.m. and 120 V. The experimental characteristics of the normal and resonance field winding connections of the three-phase generator are shown in Figs. 6A and B and 7A and B. The curves show that the resonance point was near 42 c/s. Characteristics of the excitation circuit of a two-phase generator system at the resonance frequency is shown in Fig.8. The curves show that at a frequency of 50 c/s the use of the resonance circuit reduces the total excitation power by a factor of 3.8 and the reactive excitation power by a factor of nearly five. To compare the weights of the electrical equipment of electric locomotives of the single-phase two-phase type OA and of the ignitron type OP, comparative designs were made for the main machines of corresponding locomotives with total traction motor power of 2 400 kW. The main data for the two locomotives are compared in Table 1, showing that the a.c. traction motors are only half the weight of the corresponding d.c. motors. The

Card3/4 overall weight of the electrical equipment for locomotive type OA

28(1) PHASE I BOOK EXPLOITATION SOV/3005

Gorfman, A. I. and A. R. Dembo

Avtomatika v stroitel'stve (Automation in Construction Works) Leningrad, Gosstroyizdat, 1959. 183 p. 9,000 copies printed.

Scientific Ed.: N. V. Volotskoy, Candidate of Technical Sciences; Reviewers: V. A. Timofeyev, Doctor of Technical Sciences and M. G. Tolstoy, Candidate of Technical Sciences; Ed. of Publishing House: A. S. Rotenberg; Tech. Ed.: L. V. Voronetskaya.

PURPOSE: This book is intended for engineering and technical personnel of the building industry.

COVERAGE: The authors discuss the operation of automatic control system elements used in the building industry and describe ways of introducing automatic control to this industry. They also discuss the technical and economic advantages of automatic control systems. The introduction, sections 1 and 3 of Chapter I, sections 2, 3 and 4 of Chapter III and Chapter IV were written by A. I. Gorfman, Candidate of Technical Sciences; section 2 of Chapter I, sections 1 and 2 of Chapter II and sections 1 and

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AVAILABLE: Library of Congress

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SOV/105-59-12-20/23

8(0)

AUTHORS: Alekseyev, A. A., Bogoroditskiy, N. P., Glebov, I. A., Dembo, A. R., Drozdov, N. G., Kapitsa, P. L., Kulebakin, V.S., Neyman, L. R., Syromyatnikov, I. A., et al

TITLE: Academician M. P. Kostenko. On His 70th Birthday and the 40th Anniversary of His Scientific and Pedagogic Activity

PERIODICAL: Elektrichestvo, 1959, Nr 12, pp 81 - 82 (USSR)

ABSTRACT: The oldest member of the editorial staff of the periodical "Elektrichestvo", Mikhail Poliyevktovich Kostenko was born the son of a physician in the District Voronezh in 1889. He studied at the Peterburgskiy universitet (St. Peterburg University) in 1907, in 1908 at the Peterburgskiy elektro-tekhnicheskiy institut (St. Peterburg Institute of Electrical Engineering) was relegated in 1910, because of participation in a students' revolt and exiled to the Perm' District. 1911 - 1913 he worked there as a telephone mechanic. 1913-1918 he studied and graduated from the Peterburgskiy politekhniches-kiy institut (St. Peterburg Polytechnic Institute). In 1920 he was elected instructor for the Chair of Electrical Machines at the same institute. 1922 - 1924 Kostenko was sent

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to England as an engineer and made several inventions (pulse generator, commutator generator etc.). He again started working at the Leningradskiy politekhnicheskiy institut im. Kalinina (Leningrad Polytechnic Institute imeni Kalinin) in 1924, where he became docent in 1927, and professor and head of the Chair of Electrical Machines in 1930. Since 1924 he also worked at the "Elektrosila" Works as an engineer. He took part in the development of the new turbogenerator series from 1927 to 1930. His book "AC-Commutators" appeared in 1933. In 1935 - 1936 he worked as chief electrical engineer at the Khar'kovskiy elektromekhanicheskiy zavod (Khar'kov Electromechanical Plant). He then returned to the Leningrad Polytechnic Institute. In 1939 he was elected Corresponding Member of the AS USSR. Subsequently he worked in the komissiya otdeleniya tekhnicheskikh nauk AN SSSR po vyboru sistemy toka dlya elektrifikatsii zheleznykh dorog SSSR (Commission of the Department of Technical Sciences of the AS USSR for the current type selection for the electrification of railroads in the USSR). 1942-1944 a large-size mercury rectifier plant was installed within the system of the Uzbekenergo under

his supervision. This work served as basis for the book published in 1946 together with L. R. Neyman and G. N. Blavdzevich "Elektromagnitnnyye protsessy v sistemakh s moshchnymi vypryamitel'nymi ustanovkami" (Electromagnetic Processes in Systems With Large-size Rectifier Installations). During the same time and under his supervision, the simulation of large-power systems by means of special machines was developed. He returned to the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnic Institute) in 1944. In 1958 he received the Lenin prize. He is member of the GNTK at the Sovet Ministrov SSSR (Council of Ministers, USSR), member of the technical council at the "Elektrosila" Plant and at the Institut postoyannogo toka (D.C.-Institute), delegate of the Verkhovnyy Sovet SSSR (Supreme Soviet of the USSR), member of the Presidium of the AS USSR and its representative in Leningrad. There is 1 figure.

DEMBO, A.R.

SOV/4172

4 Collected Papers (Cont.)

Dembo, A.R. Ways of Increasing the Power of Single-Phase A-C Commutator Traction Motors Operated at Commercial Frequency 169

By 1970 the Soviet Union plans to electrify some 20,000 km of railroad tracks, using single-phase 25 kv a-c current at 50 cps. Out of four possible electric locomotive drive systems, the author selects as most satisfactory single-phase 50 c.p.s. a-c commutator motors fed directly from trolley wires. The author quotes data obtained in operating experimental locomotives equipped with such motors.

Dembo, A.R., and B.A. Sumakov. Performance of Induction Motors in Self-Propelled Locomotives at Low Frequencies 190

The author studies the starting torque of a squirrel-cage induction motor with frequency control and a given current in the primary winding. He gives motor characteristics for various operating conditions at low frequencies.

4 Sbornik rabot po voprosam elektromekhaniki, vyp. 3: Energeticheskiye sistemy, elektromashinostroyeniye, elektricheskaya tyaga, avtomatizirovannyy elektroprivod, Card 4/[illegible]aticheskiye i telemekhanicheskiye sistemy, elektrosvarochnoye oborudovaniye

Moscow, Izd-vo AN SSSR, 1960. 314pp.

Akad. nauk SSSR. Inst. elektromekhaniki

DEMBO, A.R.; SUMAKOV, B.A.

Low-frequency operation of an asynchronous motor in an autonomous locomotive. Sbor.rab.po vop.elektromekh. no.3:190-197 '60. (MIRA 13:8)

(Electric railway motors)

DEMBO, A.R., inzh.

Adoption of single-phase electric traction in England. Zhel.dor. transp. 43 no.2:88-89 F '61. (MIRA 14:4)
(Great Britain--Electric railroads)

KANTOR, I.I.; DEMBO, A.R.; ZAV'YALOV, B.A.

Conference on scientific problems of the development of transportation in the U.S.S.R. Izv. AN SSSR. Energ. i transp. no.5:659-664 S-O '63. (MIRA 16:11)

ALEKSEYEV, A.Ye.; VASIL'YEV, V.A.; DEMBO, A.R.; KOZHEVNIKOV, V.A.; KOCHNEV, A.V.

Premises and features of the standardization of the traction motors of diesel locomotives and single-phase d.c. locomotives. Sbor.rab.po vop. elektromekh.no.8:327-336 '63. (MIRA 16:5)

(Electric locomotives) (Diesel locomotives)

KOSTENKO, M.P., akademik (Leningrad); DEMBO, A.R., kand. tekhn. nauk (Leningrad); PRUSS-ZHUKOVSKIY, V.V., inzh. (Leningrad)

The basis for solving the problem of future locomotives is the railway motor. Zhel. dor. transp. 45 no.6:60-65 Je '63. (MIRA 16:7)

(Railroad research)
(Electric railway motors)

DEMBO, Anna Ruvimovna, kand. tekhn. nauk; KOZHEVNIKOV, Vladimir Arsen'yevich, kand. tekhn. nauk; KOCHNEV, Anatoliy Vasil'yevich, inzh.; PRUSS-ZHUKOVSKIY, Vladimir Vladimirovich, inzh.

[Parameters of the modern traction motors for electric and autonomous locomotives] Parametry sovremennykh tiagovykh dvigatelei elektrovozov i avtonomnykh lokomotivov. [By] A.R. Dembo i dr. Moskva, Nauka, 1964. 146 p. (MIRA 17:11)

1. Leningrad. Institut elektromekhaniki.

KOSTENKO, Mikhail Poliyevktovich; GNEDIN, Leonid Pavlovich; DEMBO, A.R., otv. red.; KUZ'MINA, M.O., red.izd-va; SOROKINA, V.A., tekhn. red.

[Theory and design of three-phase collector machines and cascade systems] Teoriia i raschet trekhfaznykh kollektornykh mashin i kaskadnykh sistem. Moskva, Izd-vo "Nauka," 1964. 379 p. (MIRA 17:4)

DEMBO, A.R.

Determination of the parameters of a single-phase collector-type traction motor for electric rolling stock. Sbor. rab. po vop. elektromekh. no.10:256-267 '63. (MIRA 17:8)

GORFMAN, A.I., kand. tekhn. nauk, dots.; DEMBO, A.R., kand. tekhn. nauk, dots.; LEVIN, M.V., inzh.; STEPANOV, O.D., kand. tekhn. nauk, dots., nauchn. red.

[Principles of automatic control and automated electric drives in the construction industry] Osnovy avtomatiki i avtomatizirovannogo elektroprivoda v stroitel'stve. Leningrad, Stroiizdat, 1964. 348 p. (MIRA 18:1)

GORFMAN, A.I., kand. tekhn. nauk, dots.; DEMBO, A.R., kand. tekhn. nauk, dots.; LEVIN, M.V., inzh.; STEPANOV, O.D., kand. tekhn. nauk, dots., nauchn. red.

[Principles of automatic control and of automatized electric driving in construction] Osnovy avtomatiki i avtomatizirovannogo elektroprivoda v stroitel'stve. Leningrad, Stroiizdat, 1964. 348 p. (MIRA 18:7)

DEMBO, A.T.; DOBROV, Ye.N.; LEDNEV, V.V.; TIKHONENKO, T.I.; FEYGIN, L.A.

DNA packing inside the heads of bacteriophages D_7, T_2, and S_q. Biofizika 10 no.3:404-407 '65. (MIRA 18:11)

1. Institut kristallografii AN SSSR, Moskva i Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva. Submitted Oct. 10, 1964.

VZNUZDAYEV, N.A.; KAPACHEVSKIY, L.O.; Prinimali uchastiye: LIKHTMAKHER, S.N.; GRACHEV, A.V.; STEFIN, V.V.; DEMBO, A.T.; SHEREMET, B.V.

Hydrophysical properties and water balance of forest soils in the central Kamchatka Valley. Pochvovedenie no.10:30-43 O '61. (MIRA 14:9)

1. Laboratoriya lesovedeniya AN SSSR.
(Kamchatka Valley--Forest soils)

GANELINA, I.Ye.; DEMBO, E.A.; CHERNORUTSKIY, M.V., zaveduyushchiy; UNDRITS, V.F., zaveduyushchiy.

Certain peculiarities of the function of the vestibular analysor in patients with hypertension and ulcers. Trudy Inst.fiziol. 1:507-518 '52. (MLRA 6:8)

1. Terapevticheskiy sektor (for Chernorutskiy, Dembo and Ganelina). 2. Klinika LOR bolezney I Leningradskogo meditsinskogo instituta (for Undrits, Dembo and Ganelina). (Hypertension) (Ulcers) (Labyrinth (Ear))

DEMBO, F.Ye.

Determining the spot where liquor losses occur in the course of railroad transportations. Spirt.prom. 20 no.3:24-26 '54 (MLRA 7:10)
(Liquors--Transportation)

DEMBO, G.I., inzhener.

OVPT - 270 feed turbopump. Energomashinostroenie no.9:25 S '56. (MLRA 9:10)

(Pumping machinery)

DEMBO, G.I.

114-11-8/10

AUTHOR: Osherov, S.Ya., Candidate of Technical Sciences, and Dembo, G.I., Engineer.

TITLE: The Paths of Development of Turbo-pump Construction at the "Ekonomayzer" Works. (Puti razvitiya turbonasosostroyeniya na zavode "Ekonomayzer")

PERIODICAL: Energomashinostroyeniye, 1957, Vol.3, No.11, pp.35-38 (USSR)

ABSTRACT: In 1945, it was decided to specialise the "Ekonomayzer" Works in the manufacture of turbo-pumps. Nine pump designers were transferred from the Leningrad Metal Works (LMZ) and since then the staff has rapidly grown until there are now 150 designers and investigators.

The works produced a series of feed pumps, type ПТ-35, for steam conditions of 35 atm. and 400 °C and others. The production of these types of turbo-pumps was later passed on to the Khabarovsk Engineering Works (Khabarovskiy Mashinostroitelnyy Zavod). New types of turbo-pumps were developed for shipbuilding, also vertical and horizontal feed pumps running at speeds up to 10 000 r.p.m. and many other kinds. Finally feed, booster, and condensate pumps have been built in a single set, illustrated in Fig.1. The combination of three pumps in one set made it possible to produce a compact lightweight and economical set

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The Paths of Development of Turbo-pump Construction at the "Ekonomayzer" Works.

which can work with variable steam conditions. The driving turbine works at speeds of 4 000 - 8 000 r.p.m. A number of difficult problems had to be solved in the design of this set in order to overcome cavitation problems and to remove solid particles from the water used to lubricate the lower bearing of the feed pump. The feed pump is on the same shaft as the turbine and the condensate and booster pumps are driven through reduction gearing with a ratio of six to one.

The need for turbine-driven feed pumps in modern power stations has caused the designers of the works to develop continually-operating turbo-pumps. Such a turbo-pump was manufactured in 1956; its characteristics are given in Fig.2. So far, it has operated successfully for several thousand hours at the Shchekinsk Power Station.

The next task of the works was to develop continuously-operating feed pumps for higher steam conditions intended for providing feed for boilers in high-pressure power stations. The works has designed a new turbo-pump, type OBT-500, with an output of 500 m^3/h at a pressure of 180 kg/cm^2 and a temperature of 160 ^oC. The turbine is driven by steam at a pressure of

Card 2/4 130 kg/cm^2 absolute, at a temperature of 565 ^oC; the speed is

The Paths of Development of Turbo-pump Construction at the "Ekonomayzer" Works.

6 000 r.p.m. and the output 3 400 kW. The arrangement of the main feed and booster pumps relative to the turbine is illustrated in Fig.3.

It was necessary to develop turbo-pumps for boilers operating under super-high steam conditions, mainly at a pressure of 280 kg/cm^2 with a water temperature of 228 °C. The way in which the problem was tackled is described. The pump was designed with a sectionalised frame and runs at a speed of 8 500 r.p.m. Progress that has been made in making pumps lighter and more compact is illustrated by a table which gives relative weights and surface areas occupied by different feed pumps.

A number of difficulties are met in the design of pumps for super-high steam conditions and profound investigational and experimental work had to be carried out before they could be designed. For example, the pressure increase per stage of pump ОСПТ-320 is 79 kg/cm^2, whilst previously the highest value had been 40 kg/cm^2. A special experimental installation with a calibrated driving motor was built to determine which type of stage is the most economical.

A good deal of work had also to be done on the selection of

 materials. A.D. Moiseyev, working at the Venyukovskiy Fittings

The Paths of Development of Turbo-pump Construction at the "Ekonomayzer" Works. 114-11-8/10

Works (Venyukovskiy Armaturniy Zavod) did a good deal of work on the selection of erosion-resistant materials and on the study of factors that influence erosion. The Central Boiler and Turbine Institute (TsKTI) also worked on this problem. However, the information obtained was not sufficient for manufacturing the new pump and, therefore, the works built a special installation for testing materials in conditions of erosive wear. A rig for testing glands has also been built. A good deal of work has been done on the development of the small turbines required to drive pumps.

There are 3 figures.

AVAILABLE: Library of Congress

Card 4/4

DEMBO, G.I., inzh.

New design of the non-return valve with free discharge.
Energomashinostroenie 8 no.3:47-48 Mr '62. (MIRA 15:2)
(Valves) (Electric power plants--Equipment and supplies)

DEMBO, G.I., inzh.

The GTU-15 gas turbine unit; chronicle. Energomashinostroenie 7 no.2:48 F '61. (MIRA 16:7)

(Gas turbines)

DEMBO, I.

USSR/Electronics - Receivers
Audio Amplifiers

Jan 52

"Audio-Frequency Amplifiers for Radio Broadcast Receivers," I. Dembo

"Radio" No 1, pp 48-50

Describes several types of af amplifiers for radio broadcast receivers which were developed in the Inst of Radio Broadcast Reception and Acoustics (IRPA). Types described are a single beam tetrode output, a push-pull output using beam tetrodes, and a push-pull output using triodes; push-pull types have good f response from 50 to 10,000 cps.

239T58

DEMBO, I.K.

DO-31,5 axial smoke-exhaust fan for boilers with 950 ton per hour capacity. Biul.tekh.-ekon.inform. no.2:37-39 '62.
(Exhaust systems) (MIRA 15:3)

DEMBO, M.A.

Country : USSR
Category : Human and Animal Physiology, Blood

Abs. Jour. : Ref Zhur - Biol., No. 2, 1959, No. 7949

Author : Blinova A.; Dembo M.; Chichinadze K.
Institution. : --
Title : Blood Regeneration in Donors after Losing Different Amounts of Blood.

Orig Pub. : V sb.: Aktual'n. vopr. pereliv. krovi. Vyp. 5, Leningrad, 1957, 3--6

Abstract : The study was performed on 102 donors (11 men and 91 women) aged 21 to 50. After 250--280 ml of blood was drawn rapidly from 20 donors and 400--450 from 44 donors, blood tests, reticulocyte counts and thrombocyte counts were performed. Blood was examined on the day blood was drawn, two days later and every five days thereafter for a period of one month. When the blood was taken all at once, the hemoglobin content was 1.5% lower than the initial level; when the blood was taken fractionally, it was 2.6% lower. The highest

Card: 1/2

KROTOVA, T.A.; DEMBO, M.A.

On the possibility of using colimycin in blood preservation.
Antibiotiki 4 no.4:117-121 Jl-Ag '59. (MIRA 12:11)

1. Bakteriologicheskaya laboratoriya (zav. T.A.Krotova) i laboratoriya sukhikh preparatov (zav. - prof.L.G.Bogomolova) Leningradskogo nauchno-issledovatel'skogo instituta perelivaniya krovi.

(BLOOD PRESERVATION)
(ANTIBIOTICS)

DEMBO, M.A., nauchnyy sotrudnik

Absorption and excretion in the animal body of novocaine forming a component part of antiseptic biological suppositories. Akt.vop.perel. krovi no.7:163-166 '59. (MIRA 13:1)

1. Laboratoriya sukhikh preparatov i krovozameniteley Leningradskogo instituta perelivaniya krovi (zav. laboratoriyey - prof. L.G. Bogomolova).

(NOVOCAINE) (SUPPOSITORIES)

DEMBO, M.A.

New hemostatic suppositories. Vest.khir. 84 no.1:96-100 Ja '60. (MIRA 13:10)
(SUPPOSITORIES) (HEMOSTATICS)

DEMBO, N. A.

"Dislocation of the First Metatarsal Bone in the Lisfranis Joint," Vest. Khirurgii, 69, No. 2, 1949

DEMBO, N.A.

[Skin grafts in non-healing leg ulcers] Vliianie podsadok kozhi na zazhivlenie iazv. Vest.khir. 70 no.1:43-48 '50. (CLML 19:1)

1. Of the Second Surgical Clinic of the State Institute for the Advanced Training of Physicians (Head of clinic -- N.N.Samarin), Leningrad.

MAMAYEV, K.K.; DEMBO, N.G., red.; KRICHEVSKAYA, L.M., tekhn. red.

[Gatchina] Gatchina. Moskva, Gos. izd-vo izobraz. iskus., 1958.
T.v. (MIRA 11:10)

(Gatchina—Views)

80278
S/170/60/003/02/11/026
B008/B005

10.8000

AUTHORS: Semerchan, A. A., Filler, F. M., Dembo, N. S., Kuzin, N. N.

TITLE: The Application of Liquid Jets Flowing Out at Ejector Pressures of up to 1,000 kg/cm^2

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 2, pp. 61-66

TEXT: Peculiarities and rules of ejectors are investigated at a pressure of the active liquid (p_1) between 300 and 1,000 kg/cm^2, and a pressure of the passive liquid (p_2) between 1 and 7.6 atmospheres. A diagram of the experimental plant is shown by Fig. 1. By exchanging the central ejector part, 4 discharge parts with different diameters could be investigated. The experimental results are given in Figs. 2 and 3. As can be seen, the characteristic of the ejector consists of a working and a cavitation (vertical) part. The limit of the ejection coefficient q^* is determined by the pressures p_1 and p_2 as well as by the form and size of the discharge part. An

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increase in p_1 leads to an approximately proportional pressure increase behind the ejector, at the same time shifting the beginning of cavitation in the direction of lower q-values. The change in p_2 influences only slightly the working characteristic but the more so the critical ejection coefficient. The critical ejection coefficient is well expressed by the formula $q = (m-1)\sqrt{\frac{p_2 - p_s}{p_1 - p_s}}$ suggested by P. P. Korolev (Ref. 6). p_s = pressure of the saturated vapors. Table 1 shows that this formula in first approximation permits a determination of the position of the cavitation branch of the characteristic. The formation of cavitation was observed visually. Fig. 4 shows the transparent discharge part of an ejector model under varying working conditions. There are 4 figures, 1 table, and 6 Soviet references.

ASSOCIATION: Institut fiziki vysokikh davleniy AN SSSR, g. Moskva
(Institute of High-pressure Physics AS USSR, City of Moscow)

Card 2/2

DEMBO, S. Ye.

25662 DEMBO, S. Ye. i STEBLINTSOVA, A. A.

Krasheniye sukonnykh tkaney.
Tekstil. Prom--st', 1948, No. 6, s. 32.

SO: Letopis' Zhurnal'nykh Statey, No. 30, Moskva, 1948

SOV/133-58-7-1/27

AUTHORS: Zherebin, B.N., Engineer, Dembovetskiy, V.P., Candidate of Technical Sciences, Dotsent and Minkin, V.M., Nikulinskiy, I.D., Engineers

TITLE: Smelting of Pig Iron with a Low Content of Manganese and Phosphorus (Vyplavka chuguna s nizkim soderzhaniyem margantsa i fosfora)

PERIODICAL: Stal', 1958, 18 Nr 7, pp 578 - 585 (USSR)

ABSTRACT: Experimental smelting of low-manganese, low-phosphorus pig iron carried out on the Kuznetsk Metallurgical Combine during 1953-1955 is described. The manganese content was decreased in stages from 1.7 - 1.8% to 1.1 - 0.9% (1953-1954), then to 0.75 - 0.85% (1954) and to 0.45 - 0.55% (1955). Phosphorus content was decreased from 0.25 - 0.27% to 0.14 - 0.16%. The production of the latter type of iron is being continued. On the basis of analysis of operating and performance data of three blast furnaces (Table 1 and 2 and Figures 1 - 9) the following conclusions are drawn: the best operational results were obtained when basic slag and Mazul'skiy manganese ores were completely excluded from the burden. The possibility of production from low-manganese iron of rail quality carbon and alloy steels without an increase in the ferromanganese

Cardl/3

Smelting of Pig Iron with a Low Content of Manganese and Phosphorus

additions and without any decrease in quality was confirmed in practice. The existing views on the role of manganese in the blast furnace process (in respect of slag formation, physico-chemical properties of slag and pig iron, desulphurisation processes) should be reconsidered in the light of the results obtained during the present investigation. The use in the blast furnace burden of such poor, difficult-to-reduce substitute as an open-hearth slag can be advantageous only during the smelting of very rich ores with a high-sulphur coke (under modern conditions, it leads only to an increase in slag volume (Figure 8), an increase in the coke rate and a decrease in the output). Complete elimination of manganese containing additions leads to a 5.4% increase in the output of blast furnaces, a 5.6% decrease in the coke rate and a decrease in costs of 10.16 roubles per ton/iron. The main factors decreasing costs of production are: the elimination of manganese ore from the burden and the decrease in the coke

SOV/133-58-7-1/27

Smelting of Pig Iron with a Low Content of Manganese and Phosphorus

rate. A comparatively small increase in the basicity of slag (from 0.98-0.99 to 1.05-1.06) secured the production of pig without increased sulphur content. The technology of production of low-manganese pig which is in operation on the Kuznetsk Combine should be spread to works in the southern and central parts of the USSR.
There are 2 tables and 9 figures, and 4 Soviet references.

ASSOCIATIONS: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine) and Sibirskiy metallurgicheskiy institut (Sibirskiy Metallurgical Institute)

Card 3/3 1. Iron--Production 2. Manganese--Elimination 3. Phosphorus --Elimination 4 Blast furnaces--Operation

ZHEREBIN, B.N.; DEMBOVETSKIY, V.P.; MINKIN, V.M.; NIKULINSKIY, I.D.; Prinimali uchastiye: OBSHAROV, V.M., inzh.; RAYEV, Yu.O., inzh.; ZHIGULEV, P.T., inzh.; SUCHKOV, I.A., inzh.; BEREZKIN, B.S., inzh.; NEKRASOV, V.M., inzh.; ZHUKOVICH, A.I., inzh.

Use of coke-oven gas in blast furnaces. Stal' 21 no.8:673-679 Ag '61. (MIRA 14:9)

1. Kuznetskiy metallurgicheskiy kombinat i Sibirskiy metallurgicheskiy institut.

(Blast furnaces—Equipment and supplies)

DEMBOVETSKIY, V.P.; YEFIMENKO, G.M.; OBSHAROV, V.M.; ZHIGULEV, P.G.

Distribution of the temperature of the gas flow in a charge layer during various charging conditions. Izv. vys. ucheb. zav.; chern. met. 7 no.8:35-39 '64. (MIRA 17:9)

1. Sibirskiy metallurgicheskiy institut.

DEMBOVETSKIY, V.P.; YEFIMENKO, G.M.

Attempt to determine the effect of certain factors on the composition of blas furnace gas by the method of mathematical analysis. Izv.vys. ucheb.zav.; chern. met. 8 no.4:30-39 '65. (MIRA 18:4)

1. Sibirskiy metallurgicheskiy institut.

ZHEREBIN, B.N.; DEMBOVETSKIY, V.P.; KUDOYAROV, M.S.; MISHIN, P.P.

Studying blast furnace operations with the blowing of coke oven gas into the hearth. Stal' 25 no.4:293-298 Ap '65. (MIRA 18:11)

1. Kuznetskiy metallurgicheskiy kombinat i Sibirskiy metallurgicheskiy institut.

DEMBOVICH, A.Sh.

Control of dermatomycoses in the Ternopol' Province. Vest.derm. i ven. no.12:60-62 '61. (MIRA 15:1)

1. Ternopol'skiy oblastnoy kozhno-venerologicheskiy dispanser (glavnyy vrach A.Sh. Dembovich).
(TERNOPOL' PROVINCE—DERMATOMYCOSIS)

DEMBOVICH, A.Sh.

Fight to eliminate deep trichophytosis in Berezhany District, Ternopol' Province. Med.sestra 21 no.9:41-42 S '62.
(MIRA 15:9)

1. Iz Ternopol'skogo oblastnogo kozhno-venerologicheskogo dispansera.

(BEREZHANY DISTRICT—RINGWORM)

DEMBOVICH, A.Sh.

Mycological flora of Ternopol Province and measured for the elimintaion of dermatomycosis. Vest. derm. i ven. 36 no.10: 71-73 0'62 (MIRA 16:11)

1. Iz Ternopol'skogo oblastnogo kozhno-venerologicheskogo dispansera (glavnyy vrach A. Sh. Dembovich).

DEMBOVICH, A. Sh.

The role of the soil and field mice in the epidemiology of deep trichophytosis. Vest. derm. i ven. 37 no.8:19-21 Ag '63 (MIRA 17:4)

1. Ternopol'skiy oblastnoy kozhno-venerologicheskiy dispanser (nauchnyy rukovoditel' - prof. I.I. Pototskiy).

DEMBOVICH, A.Sh.

Soil fungi from burrows of murine rodents and their pathogenicity.
Vest. derm. i ven. 39 no.4:15-17 Ap '65. (MIRA 19:2)

1. Ternopol'skiy oblastnoy kozhno-venerologicheskiy dispanser (nauchnyy rukovoditel' - prof. I.I. Pototskiy).

LOZOVOY, A.V.; MUSELEVICH, D.L.; RAVIKOVICH, T.M.; SENYAVIN, S.A.; TITOVA, T.A.; CHERKASOVA, V.F.; Prinimali uchastiye: DEMBOVSKAYA, Ye.A.; ZAKHARENKO, V.A.; L'VOVA, L.N.; MARKINA, T.I.

Hydrogenation catalysts on an aliminosilicate base. Zhur.prikl.khim. 34 no.10:2295-2302 O '61. (MIRA 14:11)
(Hydrogenation) (Catalysts)

BLONSKAYA, A. I.; DEMBOVSKAYA, Ye. A.; LOZOVOY, A. V.; Prinimala uchastiye: MARKINA, Z. G.

Oxidation of naphthalene and monomethylnaphthalene fractions of semicoke-tar aromatic hydrogenates to phthalic anhydride. Trudy IGI 17:182-186 '62. (MIRA 15:10)

(Coal-tar products) (Naphthalene) (Phthalic anhydride)

DEMBOVSKAYA, Ye.A.; KONYASHINA, R.A.; MEZHLUMOVA, A.I.; PAL'CHIKOV, G.F.

Analyzing the chemical composition of the extract of gas oils from catalytic cracking. Khim. i tekh.topl. i masel 10 no.11: 16-19 N '65.

(MIRA 19:1)

1. Institut goryuchikh iskopayemykh, Moskva.

ACC NR: AP6034781 (A,N) SOURCE CODE: UR/0065/66/000/009/0060/0062

AUTHOR: Dembovskaya, Ye. A.

ORG: none

TITLE: Determination of mono- and bicyclic aromatic hydrocarbon in paraffin and kerosene fractions by gas-liquid chromatography

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 9, 1966, 60-62

TOPIC TAGS: hydrocarbon, gas liquid chromatography, aromatic hydrocarbon, paraffin hydrocarbon

ABSTRACT: A rapid and more accurate method of determining the amount of mono- and bicyclic aromatic and paraffin hydrocarbon in industrial mixtures of kerosene and gas oil is introduced. The method utilizes gas-liquid chromatography on a selective phase of ethylene glycol ester and adipic acid applied at a 15 percent ratio on the fire brick. The investigation was conducted on a chromatograph designed at the Institute of Petrochemical Synthesis AN SSSR. A diagram in the original paper shows the logarithm of hydrocarbon retention time as a function of their boiling point on a selective phase of adipic acid. It appears that aromatic

Card 1/2

UDC: 543.544:661.715.5

DEMBOVSKAYA, Ye.N., assistent

Evaluation of the change in the diastolic murmur during the late periods following mitral commissurotomy. Kardiologiia 2 no.2:52-57 Mr-Ap '62. (MIRA 15:4)

1. Iz laboratorii funktsional'noy diagnostiki (zav. G.G.Gel'shteyn) Instituta grudnoy khirurgii AMN SSSR (dir. - prof. S.A.Kolesnikov) i kafedry grudnoy khirurgii TSentral'nogo instituta usovershenstvovaniya vrachey (dir. - prof. S.A.Kolesnikov).

(MITRAL VALVE--SURGERY) (HEART--SOUNDS)

Dembovskaya, Ye. N.

Opening snap of the mitral valve in patients with mitral stenosis before surgery and at various postoperative periods.
Terap. arkh. 35 no.9 92-98 S '63 (MIRA 17:4)

1. Iz kafedry serdechno-sosudistoy khirurgii (zav. - prof. S.A. Kolesnikov) TSentral'nogo instituta usovershenstvovaniya vrachey.

Dembovskiy

POLAND/General Section - Scientific Institutions A-3

Abs Jour : Referat Zhurn. Biol, No 16, 25 Aug 1957, 67873

Author : Dembovskiy
Title : New Studies in the Division of Experimental Biology of the M. Nentsky Institute.

Orig Pub : Kosmos, 1956, A5, No 2, 216-227

Abstract : In the instance of lower inverterbrates there were worked out questions of chemotropism, geotropism, and [illegible] studies were conducted of the special adaptations of different populations of the same species to different environmental conditions, their behavior upon change of the environmental medium, etc. A series of studies was devoted to problems of intra-species and inter-species struggles of two related species: Paramecium caudatum and Paramecium aurelia. In the project of comparison there was studied the regeneration of the capacity of Paramecium and Stylonychia taking into account their biological, physiological and morphological characteristics.

Card 1/1 - 37 -

LOSEV, V.V. (Moskva); DEMBROVSKIY, M.A. (Moskva); MOLODOV, A.I. (Moskva)

Apparatus for measuring the exchange current and true rate of the anodic process on amalgam electrodes with the aid of radioisotopic tracers. Zhur.fiz.khim. 37 no.8:1904-1907 Ag '63. (MIRA 16:9)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova.
(Electrodes) (Radioactive tracers) (Amalgams)

DEMBOVSKIY, N.F., kand. tekhn. nauk.

Building underground reinforced concrete tanks for storing bright petroleum products. Biul. stroi. tekh. 12 no.5:11-12 My 1955. (MIRA 11:12)

1.Moskovskiy ordena Trudovogo Krasnogo Znameni inzhenerno-stroitel'nyy institut.
(Precast conctete construction) (Tanks)

DEMBOVSKIY, N.F., kandidat tekhnicheskikh nauk.

Shell roofs for large underground reinforced concrete tanks.
Bet. i zhel.-bet. no.12:429-431 D '56. (MLRA 10:2)

(Roofs, Shell) (Tanks)

DEMBOVSKIY, N.F., kand. tekhn. nauk, dots.

Underground tanks with precast prestressed reinforced concrete coverings for storing bright petroleum products. Prom. stroi. 37 no.9:57-61 S '59. (MIRA 13:1)

1.Moskovskiy ordena Trudovogo Znameni inzhenerno-stroitel'nyy institut.
(Tanks) (Precast concrete construction)

DEMBROVSKIY, N.M.

Effect of water vapor pressure, in the course of dehydration, on the molecular eight of Madrell's salt. Vysokom. soed. 8 no. 1:38-41 Ja '66 (MIRA 19:1)

1. Chernovitskiy gosudarstvennyy universitet. Submitted February 9, 1965.

DEMBOVSKIY, S.A.

System As - Se. Zhur.neorg.khim. 7 no.12:2788-2792 D '62.
(MIRA 16:2)
(Arsenic-selenium alloys)

S/078/63/008/004/013/013
A059/A126

AUTHORS: Dembovskiy, S.A., Yegorov, B.N., Pashinkin, A.S., Polyakov, Yu.A.

TITLE: The problem of the phase transition of the second type with SnSe

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 4, 1963, 1,025 - 1,026

TEXT: In connection with the systematic study of the phase diagrams of the Sn - Se and SnSe - As_2Se_3 systems, tin selenide was investigated using differential thermal analysis and x-ray photography in the region of second-type transition. Sn and Sb were melted in a stoichiometric ratio in evacuated quartz flasks, and thermograms were taken with a pyrometer of the type ФПК-55 (FPK-55). A differential temperature peak was observed on the thermograms of SnSe with an extreme value at 540° C corresponding to the λ-point. No marked structural modifications of SnSe were established in the second-type transition region. The applicability of the Grüneisen law to second-type phase transitions has been shown on the example of SnSe. It has been further shown that the correlation of electric parameters (Hall resistance R) and thermal properties (thermal volume

The problem of the phase transition of the ....

expansion coefficient, specific heat) is possible, and it is assumed that second-type phase transitions are also possible in the isostructural analogues of tin selenide, namely GeS, GeSe, and SnS. There are 2 figures.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N.S. Kurnakov of the Academy of Sciences USSR)

SUBMITTED: August 16, 1962

Card 2/2

L 10644-63
EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD

ACCESSION NR: AP3001228 S/0078/63/008/006/1534/1535

53

AUTHOR: Dembovskiy, S. A.

TITLE: The compound AsSe

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 6, 1963, 1534-1535

TOPIC TAGS: AsSe compound, chemical analysis, thermographic analysis, microscopic analysis, X-ray analysis

ABSTRACT: Chemical, thermographic, microscopic and X-ray analyses confirmed formation of the compound AsSe (m 295 + or - 5°) in cast melts (annealed for 2000 hours at 230°) in the As-Se system. X-ray data is given. Orig. art. has: 1 table, 2 figures.

ASSOCIATION: none

SUBMITTED: 16Aug62 DATE ACQD: 01Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 002 OTHER: 000

deo/CL

Card 1/1

Concerning the reaction of antimony with selenium. S. A. Dembovskiy, N. P. Luzhnaya.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

DEMBOVSKIY, S. A.

"Crystallization of glasses of So-As_2Se_3 system."

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

ACCESSION NR: AP4039667 S/0181/64/006/006/1769/1772

AUTHORS: Dembovskiy, S. A.; Vaypolin, A. A.

TITLE: Properties of crystals of As_2Se_3

SOURCE: Fizika tverdogo tela, v. 6, no. 6, 1964, 1769-1772

TOPIC TAGS: arsenic selenide, differential thermal analysis, unit cell, growth rate

ABSTRACT: To study the mechanism of body crystallization of glassy As_2Se_3 in the temperature interval of softening, the authors measured the crystallization rate at 240 and 330C by differential thermal analysis. They found a reciprocal dependence of crystallization rate on viscosity. The parameters of the unit cell for single crystals obtained by growth from the gaseous phase were found to be: $a = 12.053 \pm 0.001$ Å, $b = 9.890 \pm 0.001$ Å, $c = 4.277 \pm 0.001$ Å, $\beta = 90^{\circ}28' \pm 3'$; the space group is $P2_1/n$. As_2Se_3 is isomorphous with As_2S_3. The width of the forbidden band in glassy As_2Se_3 is 1.8 ± 0.05 ev; in single crystals and polycrystalline material it is 2.1 ± 0.05 ev. The density of glassy As_2Se_3 is 4.68 g/cm^3, of crystalline material 4.80 g/cm^3. Orig. art. has: 1 figure and 2 tables.

Card 1/2

ACCESSION NR: AP4039667

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova AN SSSR, Moscow (Institute of General and Inorganic Chemistry AN SSSR); Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute AN SSSR)

SUBMITTED: 07Jan64 ENCL: 00

SUB CODE: SS, EC NO REF SOV: 010 OTHER: 003

Card 2/2