ACCESSION NR: AR4015542 S/0[illegible]/63/000/011/D045/D045

SOURCE: RZh. Metallurgiya, Abs. 11D260

AUTHOR: Ostrenko, V. Ya.; Mironov, Yu. M.; Geyko, I.K.

TITLE: A new method of producing large-diameter seamless pipes

CITED SOURCE: Sb. Trubn. proiz-vo Ukrainy*, Kiyev, 1963, 62-66

TOPIC TAGS: pipe, seamless pipe, large-diameter pipe

TRANSLATION: The authors present an analysis of existing methods of slanted-roll expansion. The results of the analysis made possible the development of a new method of expansion which allows the production of large-diameter thin- and especially thick-walled pipes, as well as pipes with external longitudinal ribs. The basic advantage of this method is the application of compressive forces on all sides without the involvement of any expansive stresses on sections lying outside the deformation focus formed by the closed contour of the outer shaping surface and the inner working rollers. This special feature makes possible the rolling of thin-walled pipes even from low-plasticity materials, which is very

Card 1/2

ACCESSION NR: AR4015542

difficult with existing methods. In addition, in products made by the new method, the outer surface will be of relatively high quality; this is assured by the conditions of deformation on a smooth surface with considerable feed force. An important feature of the new method of expansion is the absence of ovalization of the product during the deformation process. The authors give a description of the process and a pipe rolling machine for carrying it out. K. Ursova.

DATE ACQ: 09Dec63 SUB CODE: ML ENCL: 00

Card 2/2

ACCESSION NR: AR4014146 S/0137/63/000/012/D035/D035

SOURCE: RZh. Metallurgiya, Abs. 12D214

AUTHOR: Ostrenko, V. Ya.; Dferov, V. M.; Geyko, I. K.; Pechennikova, I. S.; Lagutina, R. V.; Kirvalidze, N. S.

TITLE: Hot rolling of pipes from EP38, EP39, and EI993 steels

CITED SOURCE: Sb. Proiz-vo trub. M., Metallurgizdat, vy*p. 9, 1963, 5-12

TOPIC TAGS: Steel pipe hot rolling, pipe steel composition, steel pipe rolling

TRANSLATION: Chemical compositions of the indicated steels to be used in production and the mechanical properties of the tube blanks are given. The mechanical properties of these steels are examined in detail. The mechanical properties of the pipes obtained are indicated, and recommendations designed to improve the quality of the pipes are given for the procedure of their hot rolling.

DATE ACQ: 09Jan64 SUB CODE: ML ENCL: 00

Card 1/1

OSTRENKO, V.Ya., kand. tekhn. nauk; MIRONOV, Yu.A., inzh.; GEYKO, I.K., inzh.

Theoretical and experimental determination of the force necessary for mandrel drawing in a pilgrim mill. Proizv. trub no.10:7-14 '63. (MIRA 17:10)

YUSHKEVICH, P.M., kand. tekhn. nauk

OSTRENKO, V.Ya., kand. tekhn. nauk; [illegible]CHEV, L.D., inzh.; [illegible]V, [illegible], inzh.; G[illegible]ZK[illegible], I.[illegible], inzh.

Force and torque in piercing on large automatic equipment. Proizv. trub no.10:31-36 '63. (MIRA 17:10)

ACCESSION NR: AP4019481 S/0133/64/000/003/0258/0263

AUTHOR: Ostrenko, V. Ya.; Yuferov, V. M.; Gayko, I. K.; Ty*r, V. P.; Oslon, N. A.; Chererinskaya, R. I.; Vil'yams, O. S.; Lagutina, R. V.

TITLE: Manufacture of tubes from new ferritic martensitic heat resistant steels

SOURCE: Stal', no. 3, 1964, 258-263

TOPIC TAGS: heat resistant steel, steel tube, ferritic martensitic steel, tube rolling

ABSTRACT: The authors report on techniques developed in recent years by the Ukrainskiy n.-i. trubny*y institut (Ukrainian Tube Research Institute) in cooperation with tube factories in Pervoural'sk and Nikopol for hot rolling and heat treating of tubes made from 9 new types of steel, all of which contain 10—14% Cr and additions of V, Mo, Nb, and W. The AC temperature was in the range of 810—830C; ferrite grain growth was noted above 1100C; piercing temperatures varied from 1090 to 1200C. Ductility at high temperatures was found to depend on the content of free ferrite, and piercing of tube billets presented no

Card 1/2

ACCESSION NR: AP4019481

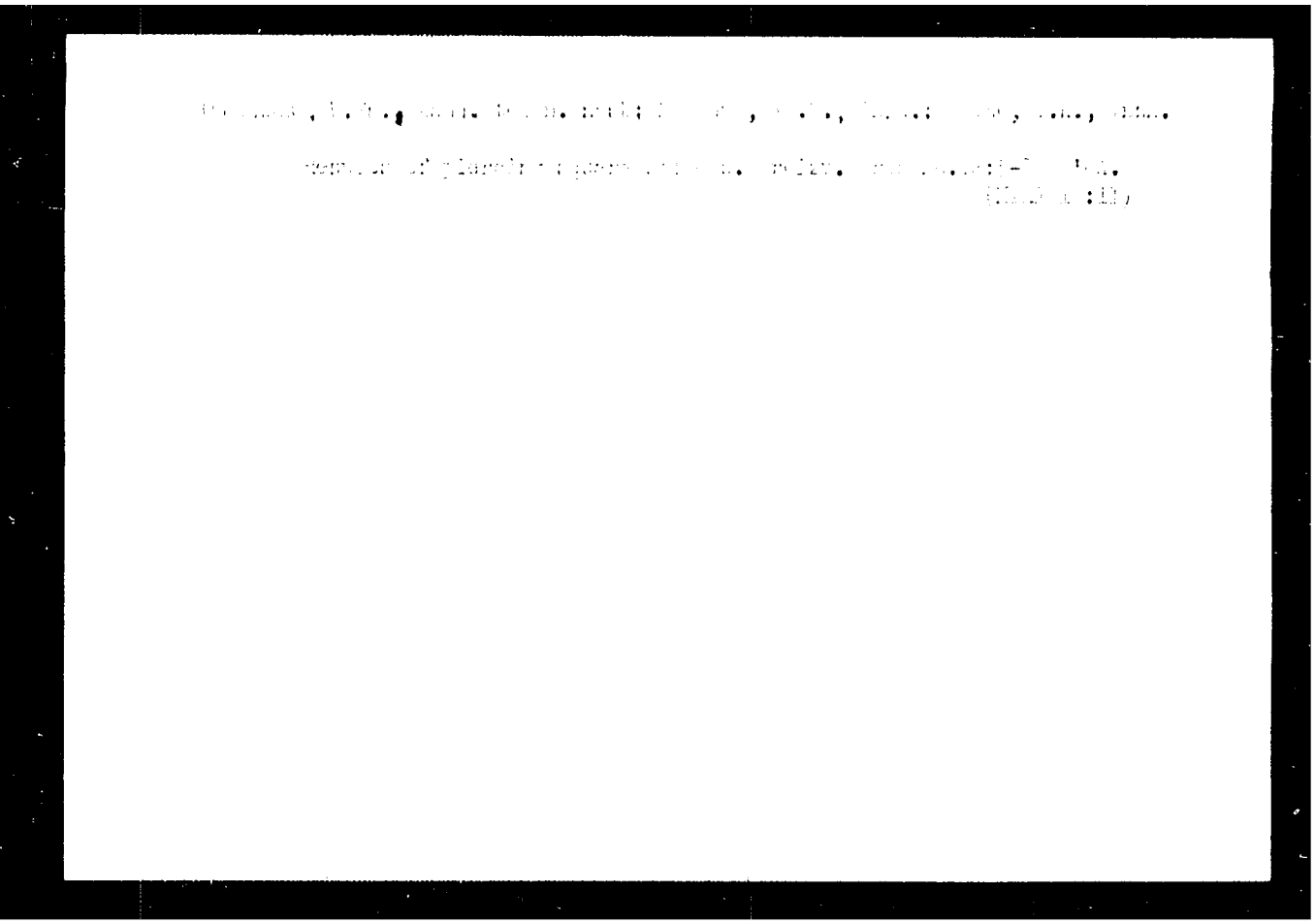
difficulties at a content of 50%. At 15—20% ferrite hot tears, cracks, and laps were formed. Annealing of hot-rolled and reduced tubes at 770—780C imparts a structure of granular pearlite and the mechanical properties needed for further cold reduction. Metal consumption for almost all steels, including machining, proved no higher than those for similar pipes of stainless steels in current production practice. "Engineers N. S. Kirvalidze, R. A. Prudkova, N. N. Pil'nikova, L. S. Rakhnovetskiy, I. S. Pechennikova, and others took part in the work." Orig. art. has: 8 figures and 2 tables.

ASSOCIATION: Ukrainskiy n.-i. trubny*y institut (Ukrainian Tube Research Institute); Pervoural'skiy novotrubny*y zavod (Pervoural'sk New Tube Plant); Nikopol'skiy yuzhnotrubny*y zavod (Nikopol' Southern Tube Plant)

SUBMITTED: 00 ATD PRESS: 3045 ENCL: 00

SUB CODE: MM,IE NO REF SOV: 010 OTHER: 000

Card 2/2



ACC NR: AP7003874 (N) SOURCE CODE: UR/0133/67/000/001/0074/0079

AUTHOR: Yuferov, V. M. (Docent; Candidate of technical sciences); Geyko, I. K. (Engineer)

ORG: VNITI

TITLE: Forgeability of stainless and heat-resistant steels

SOURCE: Stal, no. 1, 1967, 74-79

TOPIC TAGS: steel, steel structure, stainless steel, heat resistant steel, plasticity, forgeability

ABSTRACT: Generalization of test data on stainless and heat resistant steels obtained by the hot-twist method in the temperature range 1000—1025 C has made it possible to establish the forgeability and deformation resistance of these steels as a function of structure. Knowing only the chemical composition, the derived formulas and charts can be used to determine the true yield point (deformation resistance) as related to temperature and deformation rate. Orig. art. has: 11 formulas, 6 figures and 1 table. [Authors' abstract] [AM]

SUB CODE: 11/SUBM DATE: none/ORIG REF: 020/

Card 1/1 UDC: 620.162.2:620.183

GEYKO, Ivan Terent'yevich; KOVALENKO, Aleksey Yakovlevich; KOLYAKO, Dmitriy Akimovich; ZENKAT, G.N., red.; KHLOBORDOV, V.I., tekhn.red.

[Krasnodar Territory; facts and figures] Krasnodarskii krai; tsifry i fakty. [Krasnodarsk] Krasnodarskoe knizhnoe izd-vo, 1957. 122 p. (MIRA 11:2)

(Krasnodar Territory--Economic conditions)

GEYKO, N.F., inzh., red.; KOZLOVSKIY, B.K., inzh., red.; VERTSMAN, G.Z., kand. tekhn. nauk, red.; VLASOV, D.I., inzh., red.; DUZINKEVICH, S.Yu., inzh., red.; MADERA, G.I., red.

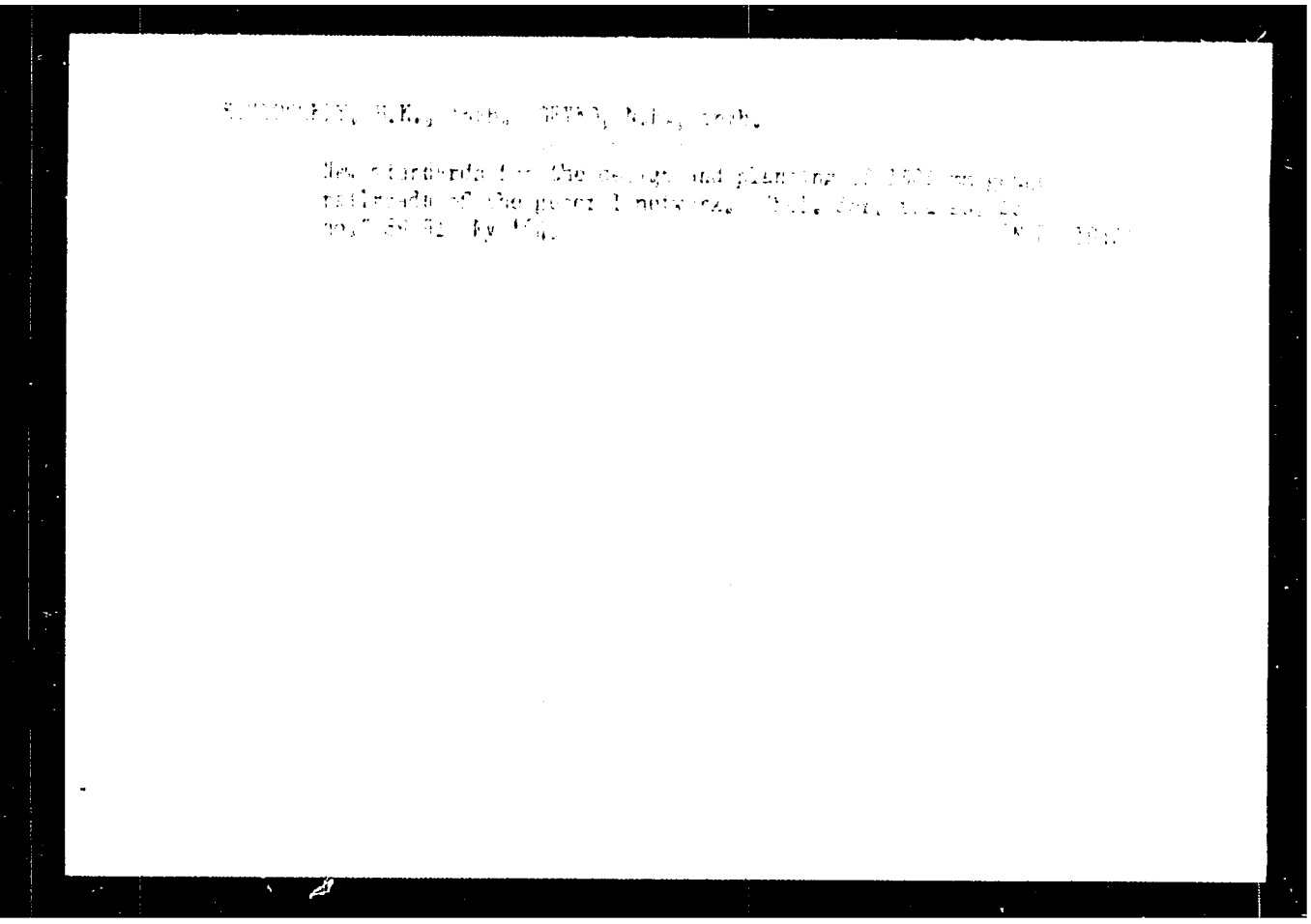
[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Stroiizdat. Pt.2. Sec.A. ch 3. 1964. 16 p. Pt.2. Sec. D. ch.1. 1964. 62 p.
(MIRA 18:2)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Geyko, Kozlovskiy, Duzinkevich). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva (for Vertsman). 4. Gosudarstvennyy institut tekhniko-ekonomicheskikh issyskaniy i proyektirovaniya zheleznodorozhnogo transporta (for Vlasov). 5. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut industrial'nykh, zhilykh i massovykh kul'turno-bytovykh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Madera).

KOZLOVSKIY, B.E., inzh., red.; GEYKO, N.F., inzh., red.; ZAK, B.C., inzh., red.; PETROVA, V.V., red.

[Technical instructions for designing 750 mm gauge railroads. Approved by the State Committee for Construction of the U.S.S.R. July 18, 1963] Tekhnicheskie ukazaniia po proektirovaniiu zheleznykh dorog kolei 750 mm. (SN 25-63). Utverzhdeny Gosudarstvennym komitetom po delam stroitel'stva SSSR 18 iiulia 1963 g. Moskva, Gosstroi SSSR, 1964. 92 p. (MIRA 17:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Kozlovskiy, Geyko). 3. Gosudarstvennyy institut tekhniko-ekonomicheskikh issledovaniy i proyektirovaniya zheleznodorozhnogo transporta (for Zak).



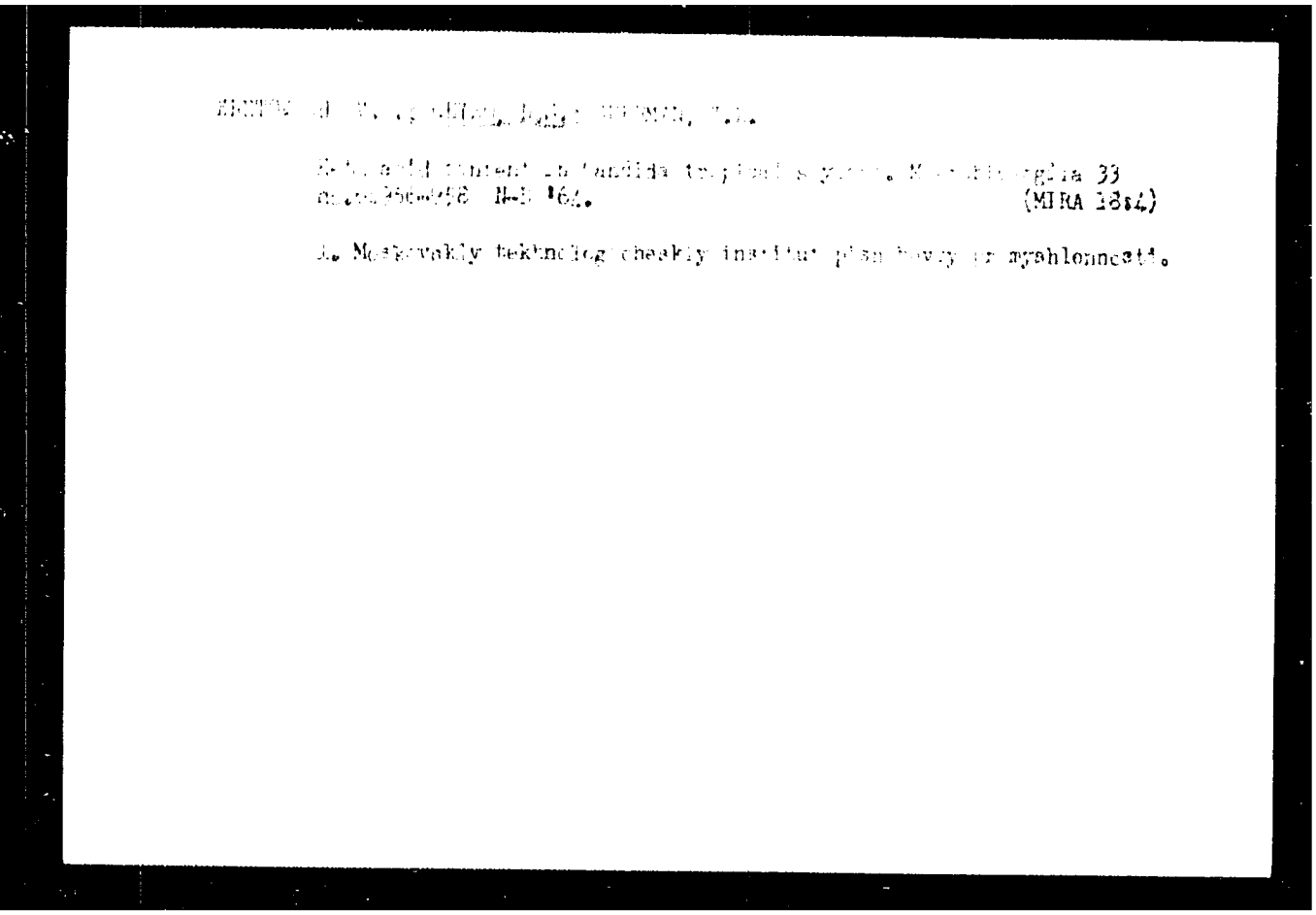
KOZLOVSKIY, B.K., inzh.; GEYKO, N.F., inzh.

New specifications for designing railroads with a 1,524 mm gauge of the general network. Transp. stroi. 14 no.5:39-40 My '64. (MIRA 18:11)

GEYKO, N.S.; KRETOVICH, V.L.; POLKOVNIKOV, B.D.; BALANDIN, A.A., akademik; TABER, A.M.

Determination of keto acids by the reduction of 2,4-dinitrophenyl hydrazones. Dokl. AN SSSR 153 no.1:209-211 N '63. (MIRA 17:1)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti i Institut organicheskoy khimii AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kretovich).



KRETOVICH, V.L.; GEYKO, N.S.; Prinimali uchastiye: ZHURAVLEVA, S.; GARMSEN, O.; GRISHINA, T.

Content of keto acids in plants. Dokl. AN SSSR 158 no.2:471-473 S '64. (MIRA 17:10)

1. Institut biokhimii im. A.N.Bakha AN SSSR i Tekhnologicheskiy institut pishchevoy promyshlennosti. 2. Chlen-korrespondent AN SSSR (for Kretovich).

GEYKO, N.S.; LYUBIMOV, V.I.; KRETOVICH, V.L.

Free keto acids in Azotobacter vinelandii. Dokl. AN SSSR 160 no.4:944-945 F '65. (MIRA 18:2)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Tekhnologicheskiy institut pishchevoy promyshlennosti, Moskva. 2. Chlen-korrespondent AN SSSR (for Kretovich).

GEYKO, N.S.; KRETOVICH, V.L.; ROMANOVA, A.K.; DOMAN, N.G.

Ketoacids of hydrogen bacteria. Dokl. AN SSSR 160 no.6:1414-1416 F '65. (MIRA 18:2)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Tekhnologicheskiy institut pishchevoy promyshlennosti, Moskva. 2. Chlen-korrespondent AN SSSR (for Kretovich).

GEYKO, N.S.; L'VOV, N.P.; LYUBIMOV, V.I.; KRETOVICH, V.L.

Keto acids of Mycobacterium azot-absorptum sp. n. Dokl. AN SSSR 165 no.3:699-700 N '65. (MIRA 18:11)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Tekhnologicheskiy institut pishchevoy promyshlennosti, Moskva. 2. Chlen-korrespondent AN SSSR (for Kretovich).

GEYLAND, G. [Heiland, G.]; VILLER, K.Ye., [translator]; KOZHINA, N.K. [translator]

Preparation and properties of pure surfaces of semiconductors. Usp. fiz. nauk 82 no.2:325-386 F'64. (MIRA 17:2)

GEYLER, Aleksandr Benediktovich

[How to guard the child from infectious diseases] Kak uberech' rebenka ot zaraznykh zabolevanii. Ufa, Bashkirskoe knizhnoe izd-vo, 1957. 28 p. (MIRA 13:11)
(CHILDREN--CARE AND HYGIENE)

BOL'SHAM, Ya.M.; VINOGRADOV, A.A.; VOLOBRINSKIY, S.D.; GEYLER, L.B.; GRUDINSKIY, P.G.; DOLGINOV, A.I.; ZIL'BERMAN, R.I.; KAZAK, N.A.; KLETENIK, B.I.; KNYAZEVSKIY, B.A.; LIVSHITS, D.S.; MEL'NIKOV, N.A.; MININ, G.P.; MUKOSEYEV, Yu.L.; NAYFEL'D, M.R.; PETROV, I.I.; RAVIN, V.I.; SAMOVER, M.L.; SERBINOVSKIY, G.V.; SYROMYATNIKOV, I.A.

Lev Veniaminovich, 1905; on his 60th birthday. Prom. energ. 20 no.9:43 S '65. (MIRA 18:9)

GEYLER, L. B.

:A 1T21

USSR/Electric Motors Mar 1947

"Optimum Slippage of an Asynchronous Motor with a Variable Load," L B Geyler, 3 pp

"Elektrichestvo" No 3

Mathematical discussion with graphs and a table

1T21

USSR/Motors, Electric
Electrical Equipment

Jul 1947

"The Dynamic Properties of an Asynchronous Engine and a New Method of Calculating Peak Electric Equipment," L. P. [illegible]

"Elektrichestvo" Vol LXVII, No 7

Gives the characteristic of a new method of calculating peak equipment and shows its advantages over ones now in use. The characteristic and its comparison with that of other methods are given in graph form.

17T31

GEYLER, L. B.

GEYLER, L. B.

Geyler, L. B. defended his Doctor's dissertation in the Power Engineering Institute im Krzhizhanovskiy, USSR, on 18 March 1943, for the academic degree of Doctor of Technical Sciences.

Dissertation: "Theory of and New Method for Calculating Electric Drive of Irreversible Rolling Mills with Induction Motors".

Official Opponents: Profs. D. P. Morozov, Ye. V. Mitusov, and B. P. Aparov; and T. G. Soroker (all Doctors of Technical Sciences).

SO: Elektrichestvo, No. 7, Moscow, August 1953, pp 87-92 (w/29844, 16 Apr 54)

GEYLER, L. B.

USSR/Electricity Jun 48
Circuits, Electric
Magnetic Flux

"Duration of the Accumulation of Magnetic Flux in Circuits Containing Steel," L. B. Geyler, Cand Tech Sci, All-Union Electrotech Inst imeni Lenin, 1 p

"Elektrichestvo" No 6

Describes graphical, analytical method of solving problem.

17/49T19

GEYLER, L. B. PA 15/49T26

USSR/Electricity
Terminology Jul 48

"Greater Attention to Soviet Electrical Engineering Terminology," L. B. Geyler, Cand Tech Sci, All-Union Elec Eng Inst imeni Lenin, 1 p

"Elektrichestvo" No 7

Gives examples of unsatisfactory electrical terminology. Suggests special commission should study subject. Work of existing Academy committee should be speeded up. Lists of new terms should be published in "Elektrichestvo."

15/49T26

GEYLER, L. B.

BA 22/49T25

USSR/Electricity
Drives, Electric
Regulators

Oct 48

"Review of A. Ya. Lerner's 'Automatic Regulation With Industrial Electrical Drives,'" L. B. Geyler, Cand Tech Sci, 1¼ pp

"Elektrichestvo" No 10

Book is useful but there are certain omissions which should be corrected in next edition. Published by Gosenergoizdat, 1947, 156 pp, 4,000 copies, 7 rubles 50 kopeck.

22/49T25

GEYLER, L. B.

TA47T36

USSR/Electricity Feb 1948
Motors, Electric
Drives, Electric

"Selection of Asynchronous Motor According to the Mean Quadrature Current and Moment, in Particular, for Peak Electric Drives," L. B. Geyler, Candidate Tech Sci, All-Union Elec Engin Inst imeni V. I. Lenin, 5 pp

"Vest Elektro-Prom" No 2

Describes in very general terms the relation between the amount of the mean quadrature current and the mean quadrature moment of asynchronous motor operating with fluctuating loads, or more exactly between the capacities of motors selected on this basis.

[redacted] 47T36

GEYLER, L. B. DR.

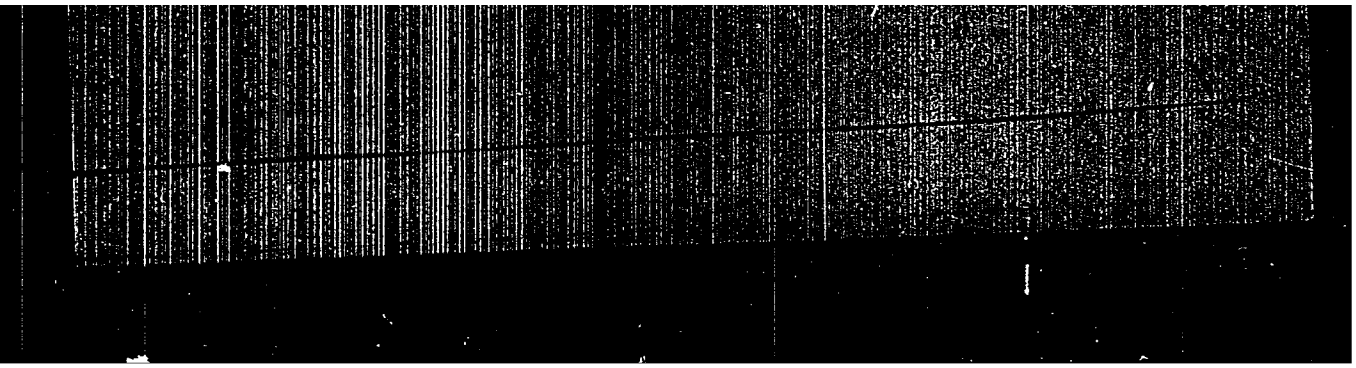
USSR/Electricity
Cranes, Electric
Drives, Electric

Apr 47

"Review of A. G. Mekler's 'Electric Drive for Crane Machinery'" Dr. I. I. Petrov, Cand Tech Sci, Head of Chair of Elec Drive, All-Union Power Eng Corr Inst, V. I. Petrov, Cand Tech Sci, Moscow Higher Tech School imeni Bauman, Dr. L. B. Geyler, Cand Tech Sci, Sr Sci Collaborator (TsNIEA), M. M. Sinayukiy, Chief Engr, "Dynamo" Factory imeni Kirov, Ye. A. Leybovich, "Dynamo" Facotry imeni Kirov, 2 pp

"Elektrichestvo" No 4

Highly critical review of subject book. Author did not test a single crane motor, either in laboratory or in industry. All of his calculations (most of which were erroneous) were for models. Concludes that publishing house made a mistake in publishing book.



APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515010008-1"

GEYLER, L. E.

PA 64/49T30

USSR/Electricity Jul 49
Drives, Electric
Slip Regulators

"Selection of Slip Regulators in Electric Drives," L. E. Geyler, Dr Tech Sci, "Elektrichestvo" Trust, Min of Elec Planning, 4 pp

"Vest Elektro-Prom" No 7

Notes abundance of reports on design and operation of slip regulators for induction motors, but inadequate attention to application possibilities. Certain cases using slip regulation (contact-type regulator for rotor circuit) could obtain satisfactory results with normal induction motors. 64/49T30

USSR/Electricity (Contd) Jul 49

Analyzes problem from broad viewpoint to reveal possibilities of using slip regulators in other applications besides rolling mills (principal use at present). Shows several examples of calculation procedure.

64/49T30

GEYLER, L. B.

PA 171T19

USSR/Electricity - Electric Drives Mar 50
Induction Motors

"Induction Electric Drive With an Impulse Load," L. B. Geyler, Dr Tech Sci

"Elektrichestvo" No 3, pp 79-83

Examines trends in theoretical research and design procedure of electric drives with shock loading, and structural shapes and electric switching circuits for present-day drives with shock loads.

171T19

GEYLER, L. B., Dr Tech Sci

USSR/Electricity - Electric Drive Nov 51

"The Use of High-slip Electric Motors in the Electric Drives of Metal-cutting Machine Tools," L. B. Geyler, Dr Tech Sci, All Res Lab of "Elektroprivod" Trust, Min of the Elec Ind USSR

"Elektrichestvo" No 11, pp 72-76

Squirrel-cage induction motors with high slip have not yet been used as extensively as they should be in the elec equipment of metal-cutting machine tools [illegible] the many advantages [illegible]

USSR/Electricity - Electric Drive (Contd) Nov 51

motor with high slip and urges the more extensive use of these motors in practice. [illegible] mitted 5 Feb 51.

20T59

GEYLER, LEONID BENEDIKTOVICH.

English-Russian electrotechnical dictionary, by L. B. Heiler and N. J. Dozorov. Moscow, State Pub. Office for Technical and Theoretical Literature, 1951. 732 p.

TK9.G37

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

GEYLER, L. B.

PA 240T26

USSR/Electricity - Electric Drive Mar 52
Engineering - Metal-Cutting Machines

"Three-Phase Electric Shaft in Electric Drives of Metal-Cutting Tools," Dr Tech Sci L. B. Geyler, Central Sci-Res Lab of Elec Drive and Automatics of "Elektroprivod" Trust

"Elektrichestvo" No 3, pp 24-31

Three-phase "electric shaft" circuits have been known relatively long. Recently some new circuits have appeared using simultaneous combined feeding of stator windings of induction machines by dc and 3-phase ac. These are finding use in electric drives of powerful lathes. Describes results of exptl investigation of these circuits, as well as exptl procedure. Submitted 2 Oct 51.

240T26

GEYLER, L. B.

232T54

USSR/Electricity - Electric Drive Elevators Sep 52

"Problems in the Electrical Equipment of High-Speed DC Elevators," L. B. Geyler, Dr Tech Sci, Moscow

"Elektrichestvo" No 9, pp 45-53

Survey of present practice in the design of elec drive for elevators, giving many comparative evaluations with the US. States that there are 102 elevators in the educational and residential buildings of Moscow State U. Submitted 19 May 52

232T54

1. KAZHDAN, Ye. M. Eng: SHCHEGOL'KOV, S.N. Eng.: ROMANOV, S.P., Prof.: GEYLER, L. B., Dr.

2. USSR (600)

4. Kniazevskii, E. A.

7. "Electric power supply of industrial enterprises." A. A. Fedorov, E. A. Knyazevskiy. Reviewed by Engs. Ye. M. Kazhdan, S. N. Shchegol'kov, Prof. S. P. Romanov, Dr. L. B. Geyler. Elektrichestvo No. 10, 1952.

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

1. GEYLER, L. B.

2. USSR (600)

4. Electric Controllers

7. "Fundamentals of electric drive and automatic control." S. A. Volotkovskii, A. E. Trop, A. T. Blazhkin, M. IU. Shukhatovich. Approved by the Ministry of Higher Education of the U.S.S.R. as a textbook for students of higher schools of learning in the special course "Electric Engineering in Mining." Reviewed by L. B. Geyler. Elektrichestvo no. 12, 1952.

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

GETTER, L. I. Dr.

Electric Motors

Methodology in presenting some problems in courses of electrical machines and electric drives. Elektrichestvo No. 3, 1953.

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

GEYLER, L. B.

USSR/Electricity - Power Factor Induction Motors Feb 53

"Discussion: *On Measures to Raise the Power Factor of Electrical Installations of Industrial Enterprises*," Dr Tech Sci I. A. Syromyatnikov, Tech Admin of Min of Elec Pow Stas USSR; Prof P. S. Grudinskiy, Moscow; Engr M. S. Likhachev, Moscow; Docent L. V. Litvak, Cand Tech Sci, Moscow, Dr Tech Sci L. B. Geyler, Moscow

Elek-vo, No 2, pp 80-86

Consists of five letters from above-noted persons commenting on materials published in "Elektrichestvo" during 1952 on subject of raising power factor through synchronization of induction motors by DAG system. The point most often bought out in letters is that use of DAG system is only stop-gap measure and that real solution to problem lies only in adequate production of synchronous motors and static capacitors.

PA 248T28

ANOSOV, Yu.I. [author]; GEYLER, L.B., doktor tekhnicheskikh nauk [reviewer].

"Electromagnetic couplings (control schemes and design)." IU.I.Anosov. Reviewed by L.B.Geiler. Elektrichestvo no.9:96 S '53. (MLRA 6:9)
(Couplings) (Anosov, IU.I.)

GEYLER, L.B.

Use of motors with increased slip as electric drive for oil-well pumps. Energ. biul. no.10:15-22 O '53. (MLRA 6:10)
(Electric driving) (Petroleum--Pumping)

LIVSHITS, S.M., inzhener; KAYALOV, G.M., kandidat tekhnicheskikh nauk; GEYLER, L.B., doktor tekhnicheskikh nauk (Moscow).

Discussing books on the electric power supply of industrial enterprises. Elektrichestvo no.11:84-87 N '53. (MLRA 6:10)

1. MPU Glavelektromontash (for Livshits). 2. Novocherkasskiy politekhnicheskiy institut (for Kayalov). (Electric power distribution)

GEYLER, L.B.

AID P - 667

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 2/24

Author : Geyler, L. B., Dr. of Tech. Sci.

Title : Basic trends in the development of electric drives

Periodical : Energetik, 7, 3-6, Jl 1954

Abstract : The author describes the history of the development of electric drives from 1875 until the present.

Institution : None

Submitted : No date

GEYLER, L. B.

AID P - 1236

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 31/34

Author : Geyler, L. B., Doc. of Tech. Sci.

Title : N. A. Polyakov. Electrical Machinery. Approved by the Administration of Educational Institutions of the Minstry of Transportation and Heavy Machine Building of the USSR as a textbook for shipbuilding technical schools. 356 pp. Mashgiz, 1953 (Bibliography)

Periodical : Elektrichestvo, 12, 86, D 1954

Abstract : The reviewer is of the opinion that this book satisfies the need for a middle-level textbook on electrical machinery particularly emphasizing shipbuilding needs. He points out several mistakes and deficiencies of the book, which should be corrected in a future new edition.

Institution : None

Submitted : No date

GEYLER, L.B., doktor tekhnicheskikh nauk; DOZOROV, N.I., inzhener kand. tekhnicheskikh nauk; LEPESHINSKAYA, Ye.V., redaktor; NEGRIMOVSKAYA, R.A., tekhnicheskiy redaktor.

[English-Russian electrotechnical dictionary] Angle-russkii elektrotekhnicheskiy slovar'. Izd.2-oe, ispr. i dop. Sost. L.B. Geiler i N.L.Dozorov. Moskva, Gos.izd-vo tekhniko-teoret.litry, 1955.704 p. (MLRA 9:5)
(English language--Dictionaries--Russian)(Electric engineering--Dictionaries)

AID P - 4126

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 13/33

Author : Geyler, L. B., Doc. Tech. Sci., Moscow

Title : Optimal gear ratio and power capacity of the motor.

Periodical : Elektrichestvo, 12, 59-61, D 1955

Abstract : The author demonstrates that under optimal gear ratio or under optimal run conditions, the total torque (i.e., static and dynamic) on the work shaft or on the motor shaft is equal to the dynamic torque of the motor on the same shaft. On the basis of this assumption, the optimal capacity and minimum dimensions of the driving motor as well as the optimal gear ratio are determined. The author expands the conception of the dynamic characteristic of the motor and for certain cases gives it a non-conventional expression. Five Soviet references (1942-1953).

AID P - 4126

Elektrichestvo, 12, 59-61, D 1955

Card 2/2 Pub. 27 - 13/33

Institution : None

Submitted : Mr 4, 1955

GEYLER, L.B., doktor tekhnicheskikh nauk.

"Electric shaft" in modern electric drives. Prom.energ. 11 no.6:5-9 Je '56. (Electric driving) (MLRA 9:9)

GEYLER, Leonid Benediktovich, prof., doktor tekhn. nauk; KULEBAKIN, V.S., retsenzent; MAR'YANOVSKIY, D.I., kand. tekhn. nauk, retsenzent; GRUSHEVSKAYA, G.M., red. izd-va; EL'KIND, V.D., tekhn. red.

[Electric driving in the manufacture of heavy machines] Elektroprivod v tiazhelom mashinostroenii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 586 p. (MIRA 11:10)
(Electric driving)

KUTSKIY, A.I.; LEONKOV, A.M.; GNYLER, L.B.; SLEPYAN, Ya.Yu.; MOSEYEV, I.V.; SOBOLEV, A.I.; TINYAKOV, N.A.; VOLKOV, N.P.; BOTVINNIK, Ya.Ye.; BARABANOV, M.Ye.; BRAZGOVKA, V.A.; PEKELIS, G.B.; KUZOVNIKOVA, Ye.A.; KUZ'MIN, Yu.P.; SHIMKO, N.I.; PALLADIY, N.L.; KHUTSKIY, G.I.

G.I. Dobkin; obituary. Izv. vys. ucheb. zav.; energ. no.4:128 Ap '58. (Dobkin, Grigorii Izrailevich, 1892-1958) (MIRA 11:6)

SOV-3-58-9-36/36

AUTHORS: Geyler, L.B., Professor, Doctor of Technical Sciences; Kuznetsov, B.V., and Mekhedko, F.V., Docents; Satsukevich, M.F. and Sheyna, G.P., Senior Instructors

TITLE: A Textbook on the Electrical Equipment of Metal Cutting Machine Tools (Uchebnik po elektricheskomu oborudovaniyu metallorezhushchikh stankov)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 9, pp 95-96 (USSR)

ABSTRACT: This is a review of the textbook by I.V. Kharizomenov "Electrical Equipment of Metal Cutting Machine Tools".

ASSOCIATION: Belorusskiy politekhnicheskiy institut imeni I.V. Stalina (Belorussian Polytechnical Institute imeni I.V. Stalin)

Card 1/1

SOV/110-58-12-5/22

AUTHOR: Geyler, L.B., Professor, Doctor of technical sciences

TITLE: Some Problems in Synchronising Induction Motors (Nekotoryye voprosy sinkhronizatsii asinkhronnykh dvigateley)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Nr 12, pp 19-21 (USSR)

ABSTRACT: Because of the shortage of synchronous induction motors and static capacitors, use is often made of induction motors run as synchronous motors by supplying the field windings with direct current obtained from the mains through a rectifier. Of course, such a system has a number of disadvantages as compared with using a normal exciter but it is widely used for simplicity, cheapness and ease of application to existing induction motors. When this method of exciting induction motors is used two phases of the rotor may be paralleled and connected in series with the third, as shown in Fig 1, or they may be connected in series and the third left open, as shown in Fig 2. The principal characteristics of the alternatives are discussed and their fundamental formulae tabulated. For steady-state conditions, the circuit of Fig 2, with two phases in series, offers

Card 1/2

Some Problems in Synchronising Induction Motors

numerous advantages. Under conditions of variable load or variable voltage, and in respect of synchronising performance, the circuit of Fig 1 is usually to be preferred. Indeed, it is found in practice that this circuit is usually adopted. The distinction between the two circuits is not so clear when rectifier supply is used as when there is an exciter but nevertheless it remains. The circuit of Fig 2 is, however, to be preferred when the mechanical load is certain to be steady and without overloads, for instance in driving centrifugal pumps and fans under constant operating conditions. There are then advantages over the circuit of Fig 1 in respect of rotor heating and reliability of winding insulation. There are 2 figures, 1 table and 2 Soviet references.

SUBMITTED: 5th July 1958

VOLOSHIN, I.F.; KASPEROVICH, A.S.; SHASHKOV, A.G.; GEYLER, L.B., prof., doktor tekhn.nauk, retsenzent; KARACHENTSEVA, N.Ya., kand.tekhn. nauk, retsenzent, red.; MARIKS, L., red.izd-va; VOLOKHANOVICH, I., tekhred.

[Semiconductor thermistors] Poluprovodnikovye termosoprotivleniia. Minsk, Izd-vo Akad.nauk BSSR, 1959. 196 p. (MIRA 12:3)
(Thermistors)

GINZBURG, M.L.; GOROKHOV, P.K.; GEYLER, L.B., prof., doktor tekhn.nauk; SHISHKIN, S.V.; AKKERMAN, D.K., red.; GAVRILOV, S.S., tekhn.red.

[German-Russian electric engineering dictionary] Nemetsko-russkii elektrotekhnicheskii slovar'. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 1066 p. (MIRA 12:2)
(German language--Dictionaries--Russian)
(Electric engineering--Dictionaries)

PHASE I BOOK EXPLOITATION SOV/3945

Geyler, Leonid Benediktovich, Doctor of Technical Sciences, Professor, and Igor' Vladimirovich Kharizomenov, Doctor of Technical Sciences, Professor

Elektrooborudovaniye i elektroavtomatika kuznechno-pressovykh mashin (Electrical Equipment and Electrical Automation of Pressworking Machinery) Moscow, Mashgiz, 1960. 226 p. Errata slip inserted. 14,000 copies printed.

Reviewer: V.Ye. Stokolov, Engineer. Ed.: O.V. Chernyak, Engineer; Managing Ed. for Literature on Heavy Machine Building: S.Ya. Golovin, Engineer; Ed. of Publishing House: O.V. Chernyak; Tech. Ed.: V.D. El'kind.

PURPOSE: This book is intended for workers of metalworking plants and students of machine-construction institutes and tekhnikums.

COVERAGE: The book deals with the design and construction of electric drives for pressworking machinery. The selection of control devices and the development of systems for automation and blocking are included. In addition to a discussion of theoretical problems, practical sample calculations and reference data on design are presented. Analytic and graphoanalytic methods of plotting characteristics of types of electric motors are described and a number of electrical

Card 1/7

devices illustrated. The electrification and automation of pressworking machines employing electrical control systems are outlined. The Appendix contains symbols (GOST 7624-55) used to designate elements of electrical circuits. No personalities are mentioned. There are 13 references: 12 Soviet and 1 German.

TABLE OF CONTENTS:

CHILIKIN, Mikhail Grigor'yevich; GEYLER, L.B., prof., retsenzent;
SANDLER, A.S., dotsent, red.; BORUNOV, N.I., tekhn.red.

[General course on electric driving] Obshchii kurs elektroprivoda.
Izd.3., dop. i perer. Moskva, Gos.energ.izd-vo, 1961. 471 p.
(MIRA 14:6)
(Electric driving)

GEYLER, L.B., prof., doktor tekhn.nauk; MEKHEDKO, F.V., dotsent, kand. tekhn.nauk

Reply to Professor A.IA. Berger's article "Airgap of an electric machine is its third principal parameter." Izv. vys. ucheb. zav.; elektromekh. 4 no.5:109-110 '61. (MIRA13:7)
(Electric machinery)
(Berger, A.IA.)

GEYLER, L.B., doktor tekhn.nauk, prof.; STANISHEVSKIY, V.N., inzh.

Braking of asynchronous short-circuited motors by switching-in in polarity opposition. Izv. vys. ucheb. zav.; energ. 5 no.2: 24-27 F '62. (MIRA 15:3)

1. Belorusskiy politekhnicheskiy institut (for Geyler).
2. Institut energetiki AN BSSR (for Stanishevskiy).
(Electric motors, Induction)

GEYLER, L.B., doktor tekhn, nauk, prof.; ONATSKIY, Ya.I., inzh.

Performance of an asynchronous electric drive with an electromagnetic sliding clutch under constant power conditions. Izv. vys. ucheb. zav.; energ. 5 no9:43-50 S '62. (MIRA 15:10)

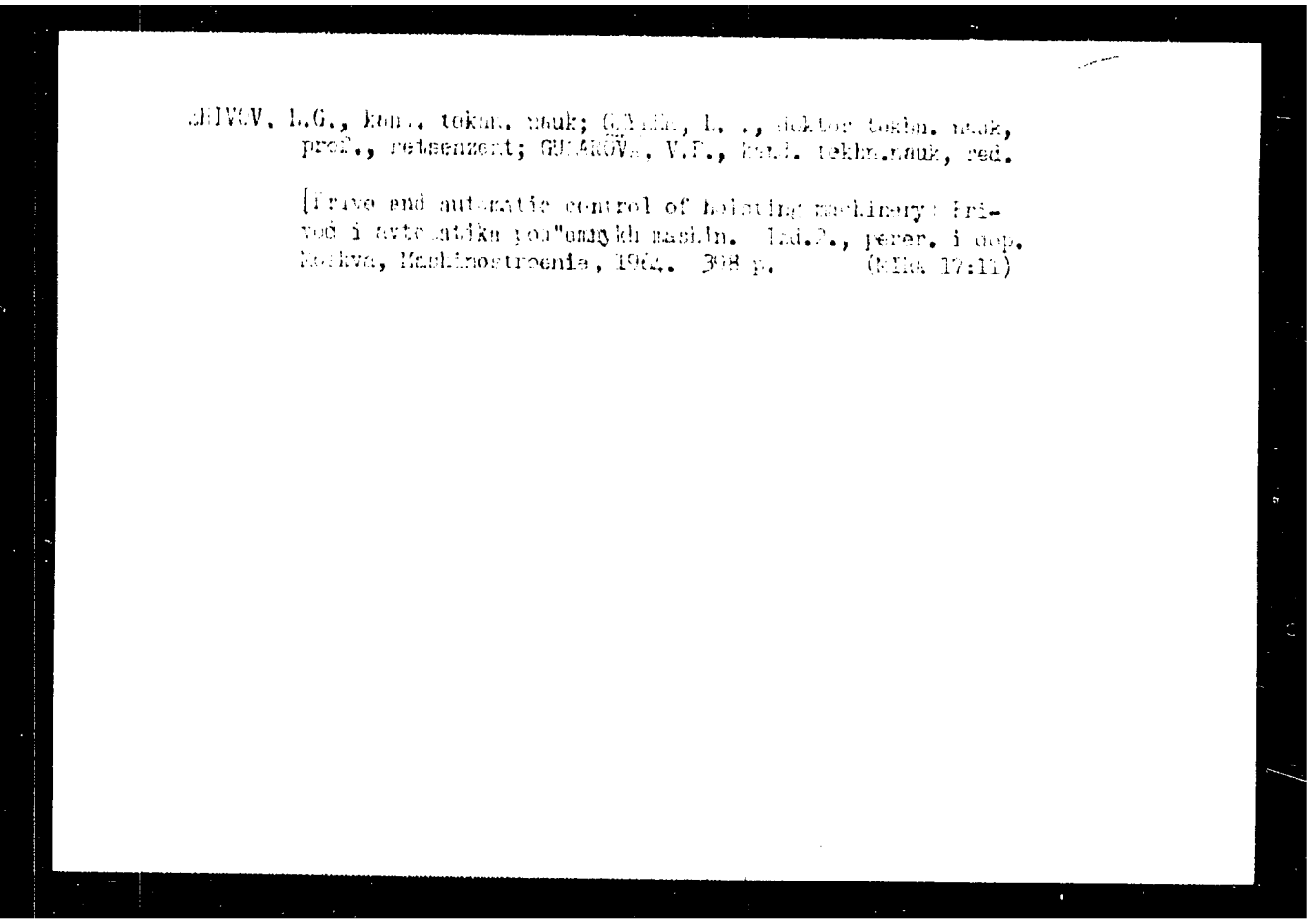
1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy elektricheskikh mashin i elektroprivoda.
(Electric driving)

GEYLER, L.B., prof., doktor tekhn. nauk; KASPER, M., red.;
YERMOLENKO, V., tekhn. red.

[Manual for electricians of industrial enterprises]
Spravochnik elektrika promyshlennykh predpriiatii. Sost.
L.B.Geiler. Minsk, Gos.izd-vo BSSR, 1963. 587 p.
(MIRA 16:11)
(Electric engineering--Handbooks, manuals, etc.)

IVENSKIY, Yu.N.; TULLER, A.G.; GEYLER, L.B., doktor tekhn. nauk, prof., retsenzent; KHARITZOMENOV, I.V., doktor tekhn. nauk, prof., red

[Electric control of machine tool lines] Elektroavtomatika stanochnykh linii. Moskva, Izd-vo "Mashinostroenie," 1964. 324 p. (MIRA 17:4)



ZHIVOV, L.G., kand. tekhn. nauk; G[illegible], L. ., doktor tekhn. nauk, prof., retsenzent; GU[illegible]OV, V.F., kand. tekhn.nauk, red.

[Drive and automatic control of hoisting machinery: Privod i avtomatika podyemnykh mashin. Izd.2., perer. i dop. Moskva, Mashinostroenie, 1964. 308 p. (MIRA 17:11)

L 22578-66
ACC NR: AP6012975 SOURCE CODE: UR/0094/65/000/009/0043/0043

AUTHOR: Bol'sham, Ya. M.; Vinogradov, A. A.; Volobrinskiy, S. D.; Geyler, L. B.; Grudinskiy, P. G.; Dolginov, A. I.; Zil'berman, R. I.; Kazak, N. A.; Kletenik, B. I.; Knyazevskiy, B. A.; Livshits, D. S.; Mel'nikov, N. A.; Minin, G. P.; Mukoseyev, Yu. L.; Nayfel'd, M. R.; Petrov, I. I.; Ravin, V. I.; Samover, M. L.; Serbinovskiy, G. V.; Syromyatnikov, I. A.

ORG: none

TITLE: Lev Veniaminovich Litvak (on the occasion of his 60th birthday)

SOURCE: Promyshlennaya energetika, no. 9, 1965, 43

TOPIC TAGS: electric engineering personnel, electric power engineering

ABSTRACT: The noted specialist of industrial power production, Candidate of Technical Sciences, Docent of the Correspondence Power Institute Lev Veniaminovich LITVAK began his engineering activity at the Moscow Association of State Electric Stations in 1929. Later he became one of the coauthors of all the "Directives for the increase of the power factor" issued in 1954, 1955, and 1961. He published 70 scientific papers. For his successful activities in defense industries during World War II he was decorated by "Znak Pocheta." After the war he concentrated on scientific-pedagogical work and in recent years worked actively in

Card 1/2

L 22578-66

ACC NR: AP6012975

the Teaching-Methodological Commission of the Ministry of Higher and Intermediate Special Education USSR, for the specialty "Electrical supply to industrial enterprises and cities." Orig. art. has: 1 figure. [JPRS]

SUB CODE: 05, 10, 09 / SUBM DATE: none

Card 2/2 BK

GEYLER, L. I.

Immediate and remore results of transverse section of the anterior abdomenial wall. Khirurgiia No 2, February 1952.

1. GEYLER, L.I.
2. USSR (600)
4. Filonchikov, Nikolai Martinovich, 1864-
7. Filonchikov was the first to advocate pre-surgical preparation, Vest.khir. 73 no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KORNIYENKO, A.M.; SHTEL'MAKHOV, M.S.; GEYLER, Z.Sh.; TSYPUL'NIKOV, I.M.; SHLEYFER, M.L.; PELIKS, A.Ya.; BRONSHTEYN, V.S.; BEPESNEV, V.A.; KUZAKHMETOV, Sh.G.; STARKOV, V.T.; VARAKSA, A.P.; ZHELEZNYAKOV, V.V.; STEL'MAN, L.N.; SUKHANOV, V.B.

Authors' certificates and patents. Mashinostroenie no.6:101-102 N-D '65. (MIRA 18:12)

KORNIYENKO, A.M.; SHTEL'MAKHOV, M.S.; GEYLER, Z.Sh.; BERESNEV, V.A.; KOTLIK, S.B.; GORFINSKIY, Kh.M.; ZEL'DIN, Yu.R.; KURGIN, Yu.M.; BELYAYEV, V.G.; ZAK, P.S.; ZAYTSEV, A.A.; LI, A.M.; SKVORTSOV, L.N.; LUTTS, R.R.; KHVINGIYA, M.V.; NINOSHVILI, B.I.; SEMENCHENKO, D.I.; SUKHANOV, V.B.

Soviet inventions in mechanical engineering. Vest.mashinostr. 45 no.11:87-88 N '65. (MIRA 18:12)

GEYLER, TS.M.

Case of echinococcosis. Khirurgiia 35 no.8:115-116 Ag '59.
(MIRA 13:12)

(RIBS—HYDATIDS)

GEYLER, TS.M.

Spontaneous rupture of the spleen. Pediatriia 42 no.8:92 Ag'63
(MIRA 17:4)

1. Iz 2-y bol'nitsy Novosibirska (glavnyy vrach Ya.V. Kaliko).

GEYLER, Z.Sh.

Measuring system with an automatic readjustment of active-control devices. Izm. tekh. no.3:13-15 Mr '65. (MIRA 18:5)

GEYLIG, K.

Correspondence courses for insurance workers. Fin. SSSR 23 no.12:69-70 D '62. (MIRA 16:1)

(Kazakhstan—Correspondence schools and courses)
(Insurance)

GEYLIKMAN, A.I.

Controlling the internal diameter of thread plug gauges. Izm.tekh. no.4:67-68 Jl-Ag '56. (MLRA 9:11)
(Screw threads--Measurement)

Geylikman, A.I.

AUTHOR: Geylikman, A.I., Candidate of Technical Sciences 28-4-25/35

TITLE: On the Tolerances for Small-Diameter Metric Thread (O dopuskakh na melkiye metricheskiye rez'by)

PERIODICAL: Standartizatsiya, 1957, # 4, p 78 (USSR)

ABSTRACT: The author of this short note suggests that the standard ОСТ НКТП 1256 be revised. This standard - for small diameter thread - gives 6 groups as to accuracy class and length of engagement. There is no precise regulation on the selection of the accuracy group with regard to the length of engagement. As a consequence, many designers do not consider this. The tolerances of the adjacent groups by the standards differ on an average of 26%. All this leads to arbitrary choice by designers and creates difficulties in utilization.

ASSOCIATION: Tula Mechanical Institute (Tul'skiy mekhanicheskiy institut)

AVAILABLE: Library of Congress

Card 1/1

GEYLIKMAN, A.I.; KARNEYEV, V.F.; KOGANOV, I.A.; PETRUKHIN, S.S.; SEMIN, V.S.

Semiautomatic machine for manufacturing chains for the "Tula" sewing machines. Mashinostroitel' no.11:11-13 N '59. (MIRA 13:3)
(Machine tools) (Sewing machines)

86127

S/112/59/000/012/060/097
A052/A001

169500 (1024, 1031, 1132)

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 166, # 25058

AUTHOR: Geylikman, A.I.

TITLE: Evaluation of Control Error of Control-Sorting Equipment

PERIODICAL: Tr. Tul'sk. mekhan. in-ta, 1958, No. 8, pp. 11-20

TEXT: A method of determining the root-mean-square error σ of automatic response according to the law of error distribution is given. It is assumed that the distribution of errors of each response is characterized by some standard law. For a prescribed law a diagram is plotted for the probability of the absolute value x of the error of a given response being greater than or equal to the absolute value of a certain given response error x. Diagrams for three standard laws of error distribution at different values of σ are given: normal law of distribution, distribution of errors by the isosceles triangle law and distribution of errors by the law of equal probability. To check the errors of the automaton a series of certified samples of gradually increasing dimensions is prepared. The

Card 1/2

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A052/A001

Evaluation of Control Error of Control-Sorting Equipment

automaton is adjusted for the size of an average sample after which all samples are passed through the automaton. The experimental data obtained are plotted on the tracing paper as curves to the same scale as the curves for three standard laws. By superimposing the tracing paper on these curves the value of σ is determined. At the same time the nature of the law of distribution of response errors is determined from the shape of the diagram. There are 6 illustrations and 2 references.

A.N.B.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

GEYLIKMAN, B.I., inzhener.

Concerning L.O.Sokolovskii's article "Degasification of liquid metal by blowing nitrogen through it." TSvet.met. 27 no.2:70-71 Mr-Ap '54. (MIRA 10:10)
(Nonferrous metals--Metallurgy) (Sokolovskii, L.O.)

ACCESSION NR: AP4042351 S/0136/64/000/007/0082/0083

AUTHOR: Geylikman, B. I.

TITLE: Effectiveness of degassing copper alloys by nitrogen blow

SOURCE: Tsvetny*ye metally*, no. 7, 1964, 82-83

TOPIC TAGS: copper alloy degassing, bronze degassing, brass degassing, nitrogen blow degassing, hydrogen blow degassing, degassed bronze property, degassed brass property

ABSTRACT: Degassing of nonferrous alloys under production conditions by blowing dry nitrogen through them was introduced in the Soviet Union in 1949. Dry nitrogen blowing is simpler and more economical than vacuum, hydrogen, or argon degassing and is sufficiently effective. The effect of nitrogen blowing on mechanical properties was investigated on specimens of LK80-3L silicon brass (79—81% Cu, 2.5—5.5% Zn, 2.5—4.5% Si, 1% Mn) melted in a reverberatory oil-fired furnace and degassed in a ladle, and on BrMts9-2L aluminum bronze (8 to 10% Al, 1.5—2.5% Mn, 1.5% Zn, 1.0% Ni) melted in a high-frequency furnace

Card 1/2

ACCESSION NR: AP4042351

and degassed in a graphite crucible. Blowing of nitrogen for 8—10 min at a rate of 400—550 ℓ/ton increased the tensile strength of the silicon brass from 12.5—27.5 kg/mm^2 to 42—51.5 kg/mm^2 and the elongation from 3—8% to 23—31%. The aluminum bronze saturated with hydrogen had a tensile strength of 9.5—18 kg/mm^2 and 46.5—50 kg/mm^2 after nitrogen degassing for 5 min, compared with 48.5—51.0 kg/mm^2 for the initial metal. The corresponding figures for elongation were 2—7, 36—48, and 15—37%, respectively. In the case of both metals, blowing of nitrogen improved the quality and increased the density of the cast metal. Additional blowing of argon through molten aluminum bronze had no effect on its mechanical properties and density. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 00	ATD PRESS: 3072	ENCL: 00
SUB CODE: MM	NO REF SOV: 001	OTHER: 001

Card 2/2

GEYLIKMAN, B.O.

Ecology of some hawks of the Khosrov Forest. Zool.sbor. 11: 5-64 '59. (MIRA 13:8)

(Vedi District--Hawks)

GEYLIKMAN, B.O.

Description of muscles of the lower extremity and tail in of the cinerous vulture. Izv. AN Arm. SSR. Biol. nauki 13 no.12:85-96 D '60. (MIRA 13:12)

1. Zoologicheskiy institut Akademii nauk ArmSSR.
(VULTURES) (MUSCLES) (BIRDS—ANATOMY)

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

*The Effect of Magnetic and Electrical Fields on Phase Transformations. B. T. Geilikman (*Zhur. Eksper. i Teoret. Fiziki* (*J. Exper. Theoret. Physics*), 1938, 8, (10/11), 1135–1140).—[In Russian.] The phase rule is generalized for systems situated in an electrical or magnetic field. A relationship is obtained between the transformation temperature and the field strength. A noticeable effect on the transformation temperature is observed in the case of magnetic fields of the order of 10^4 oersted and higher, and in electrical fields of the order of 10^4–10^6 v./cm. The temperature of transformation of cobalt is displaced by magnetic fields of about 10^3–10^4 oersted.—N. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

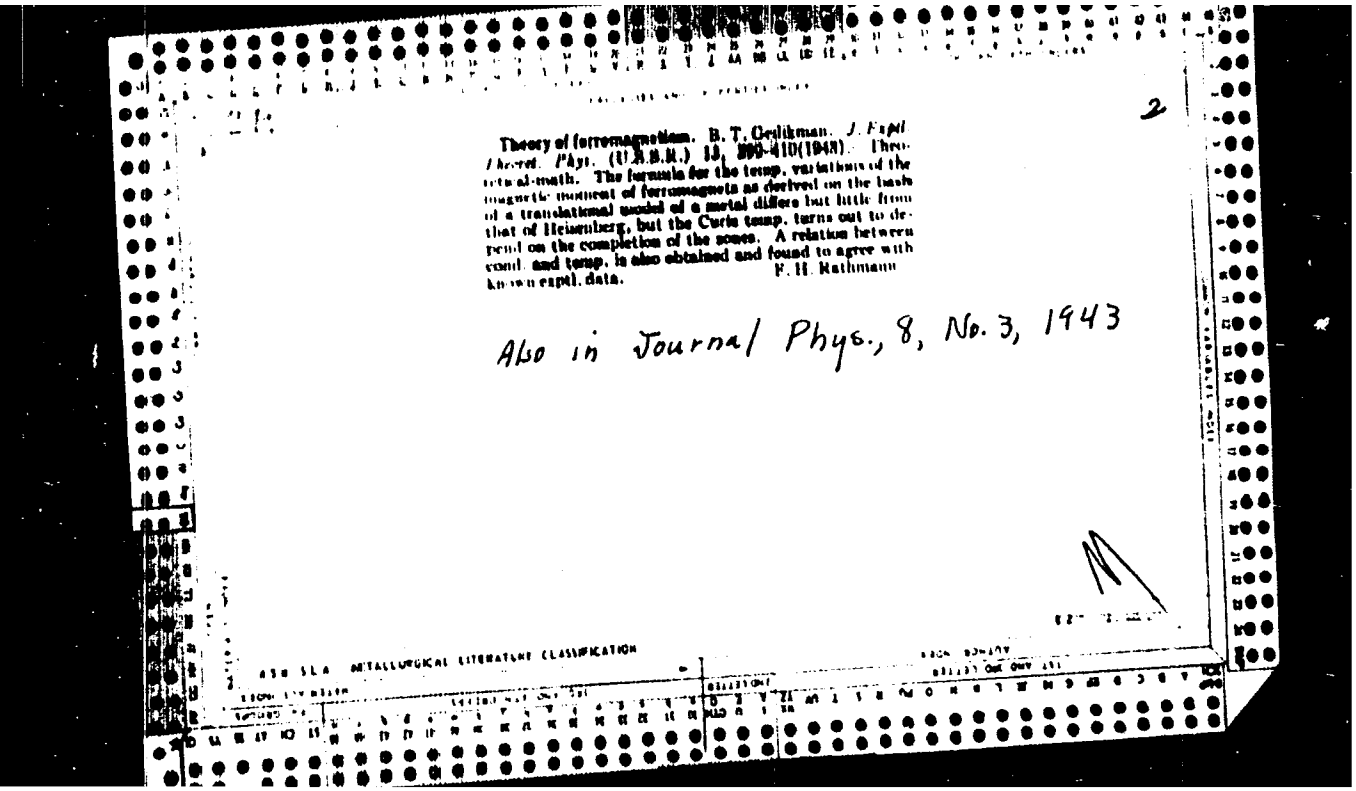
GAYLIBYAK, B. T.

"On the Anomalous Diamagnetism," Zhur. Eksper. i Teoret. Fiz., 10, No. 5, 1940.

3

Energy levels of strongly bound electrons in metals. R. T. [illegible]. *J. Exptl. Theoret. Phys.* (U. S. S. R.) 13, 168-80(1943).—Theoretical—mathematical. The energy levels for firmly held electrons in a metal, with correction for the exchange phenomenon, are found on the basis of a translational model. F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

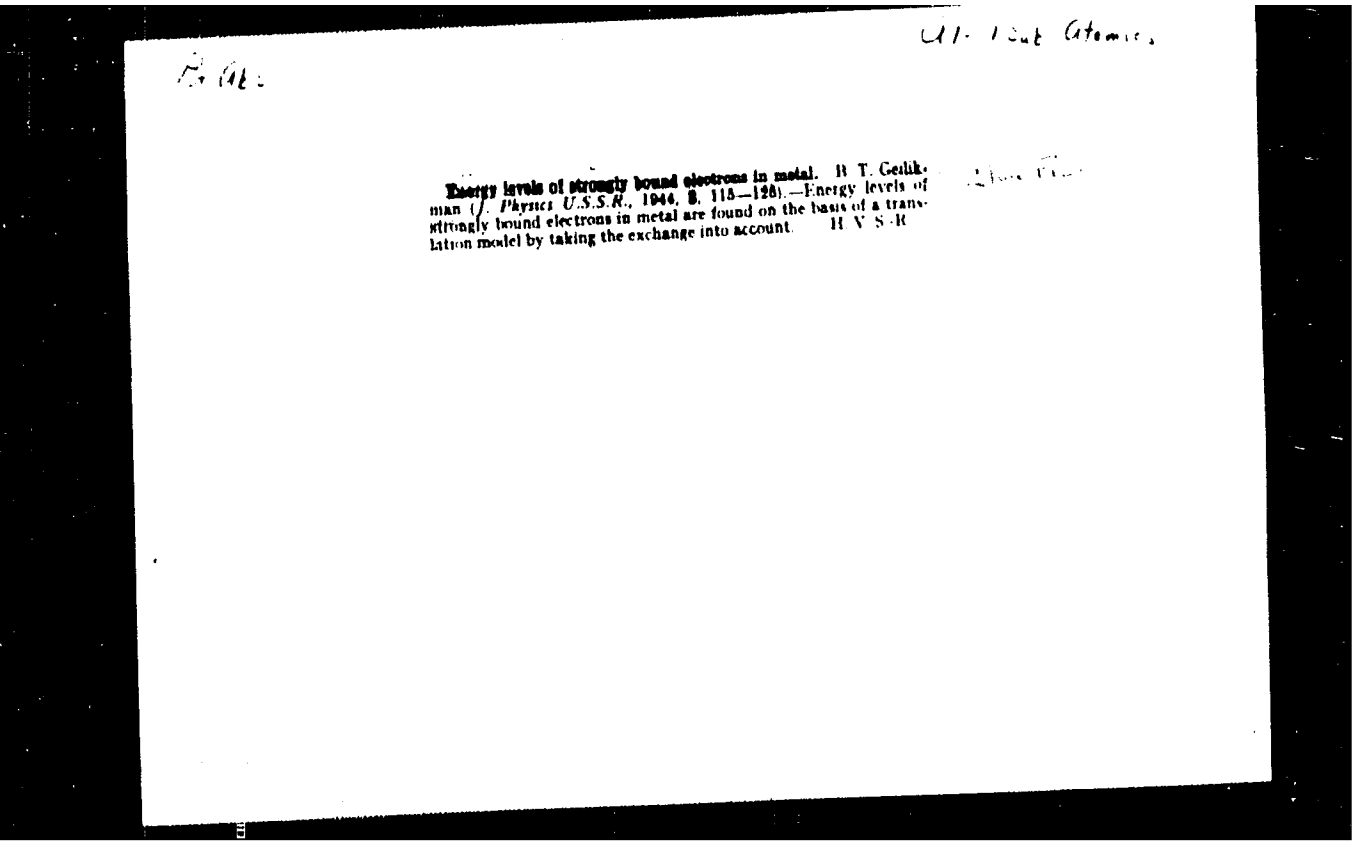


Theory of ferromagnetism. B. T. Geilikman. *J. Exptl Theoret. Phys. (U.S.S.R.)* 13, 399-410(1943). Theoretical-math. The formula for the temp. variation of the magnetic moment of ferromagnets as derived on the basis of a translational model of a metal differs but little from that of Heisenberg, but the Curie temp. turns out to depend on the completion of the zones. A relation between coöd. and temp. is also obtained and found to agree with known exptl. data.
F. H. Rathmann

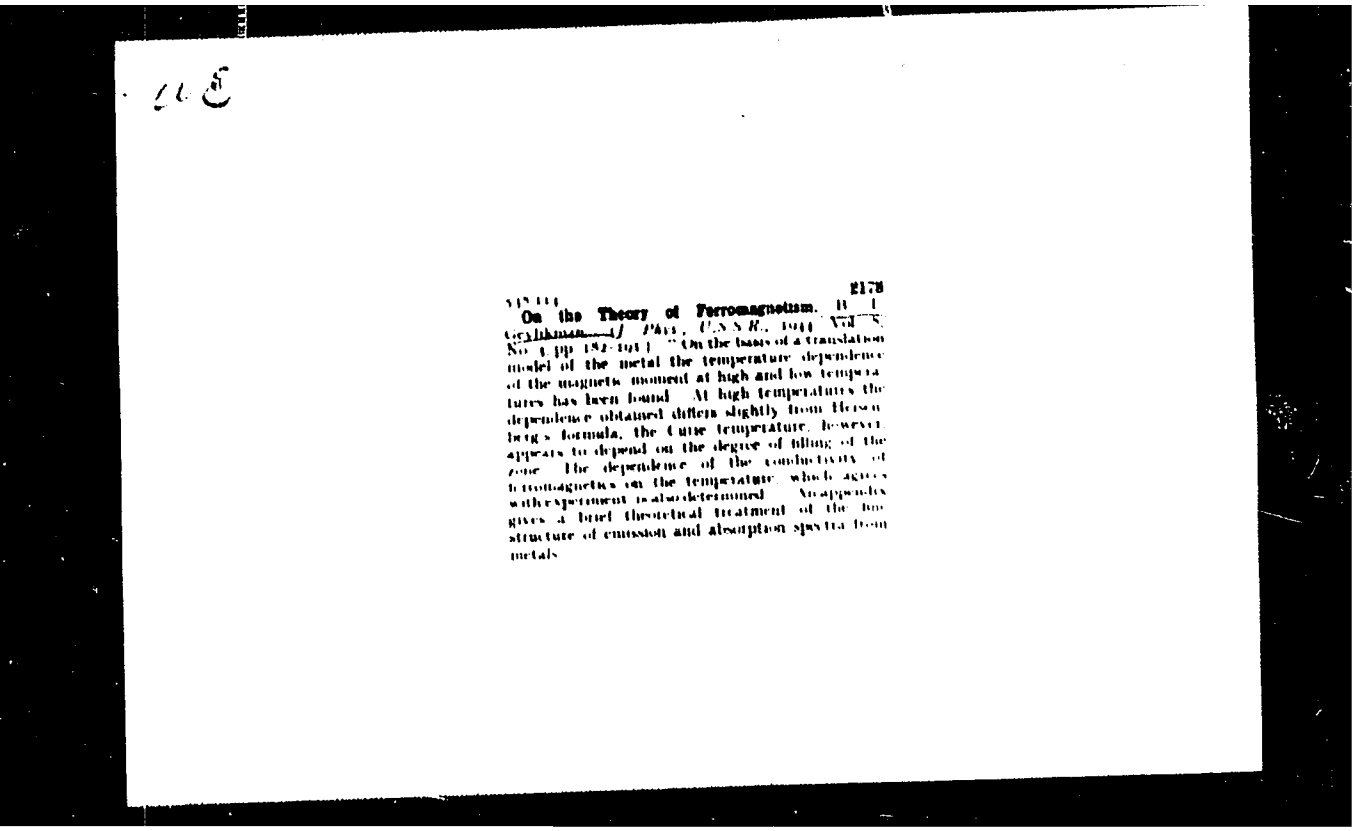
2

Also in Journal Phys., 8, No. 3, 1943

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION



Energy levels of strongly bound electrons in metal. B. T. Geilikman (*J. Physics U.S.S.R.*, 1944, **8**, 115—128).—Energy levels of strongly bound electrons in metal are found on the basis of a translation model by taking the exchange into account. H. V. S.-R.



2178

On the Theory of Ferromagnetism. (In English.) Zeitschrift f. Phys., U.S.S.R., 1940, Vol. 5, No. 1, pp. 183-191.—On the basis of a translation model of the metal the temperature dependence of the magnetic moment at high and low temperatures has been found. At high temperatures the dependence obtained differs slightly from Heisenberg's formula, the Curie temperature, however, appears to depend on the degree of filling of the zone. The dependence of the conductivity of ferromagnetics on the temperature, which agrees with experiment is also determined. An appendix gives a brief theoretical treatment of the fine structure of emission and absorption spectra from metals.

GEYLIKMAN, B.T.

No. 9.

Corpuscular wave analogy in quantum mechanics. B. T. Geĭlikman (P. N. Lebedev Phys. Inst., Acad. Sci., U.S.S.R.). *Zhur. Eksptl. i Teoret. Fiz.* 17, 850-2 (1947).—Theoretical-math. A system consisting of 2 equations for the modulus and the phases of a wave function, equiv. to the Schroedinger equation, has the same form as a system of classical equations for the Brownian motion of particles, but with opposite sign for the "Brownian potential." The motion of Brownian particles can hence be expressed by means of a Hamilton-Jacobi equation. F. H. Rathmann

11/29/5

GEYLIKMAN, B. T. Dr. Physico-Math. Sci.

"Statistical Methods in the Theory of Phase Conversions." Sub 24 Dec 51, Moscow State Pedagogical Inst imeni V. I. Lenin.

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

SO: Sum. No. 480, 9 May 55.

S. A

Sect. A

Heat

968. Remarks on the theory of superfluidity of a quantum liquid. R. T. GEILIKMAN. *Zh. Eksper. Teor. Fiz.*, 21, 413–22 (No. 3, 1951) *In Russian.*

The quantization of the equations of hydrodynamics is carried out for a rotational motion of the main mass of liquid at speeds greater than a critical value. An estimate is obtained for the upper limit of the critical speed. It is shown that the formula [illegible] (M11) for the transformation of the energy E is not applicable to hydrodynamical excitations. R. B. [illegible]

Moscow State Pedagogical Inst.

Electric Conduction

S A

Sect. A

537.311.1 : 532.5

999. The steady and oscillatory flow of the electron fluid when bound to a lattice. B. T. GOLTSMAN. *Zh. Eksper. Teor. Fiz.*, 21, 618-26 (No. 5, 1951) 7p. In Russian.

Theoretical. Solutions are obtained for the hydrodynamic equations of an electron fluid which is bound to a lattice for the case of the macroscopic motion of the bulk of the fluid at speeds which exceed the critical speed (when the magnetic field exceeds the critical interval). The frequencies of the found oscillations of the electron fluid in the lattice are found. In the case of metals the usual Debye theory proves inadequate. A. I. MACKAY

GEYLIKMAN, B.T.

(1) Phys

Gellikman, B. T. On the quantum theory of wave fields. Doklady Akad. Nauk SSSR (N.S.) 90, 359–362 (1953). (Russian)

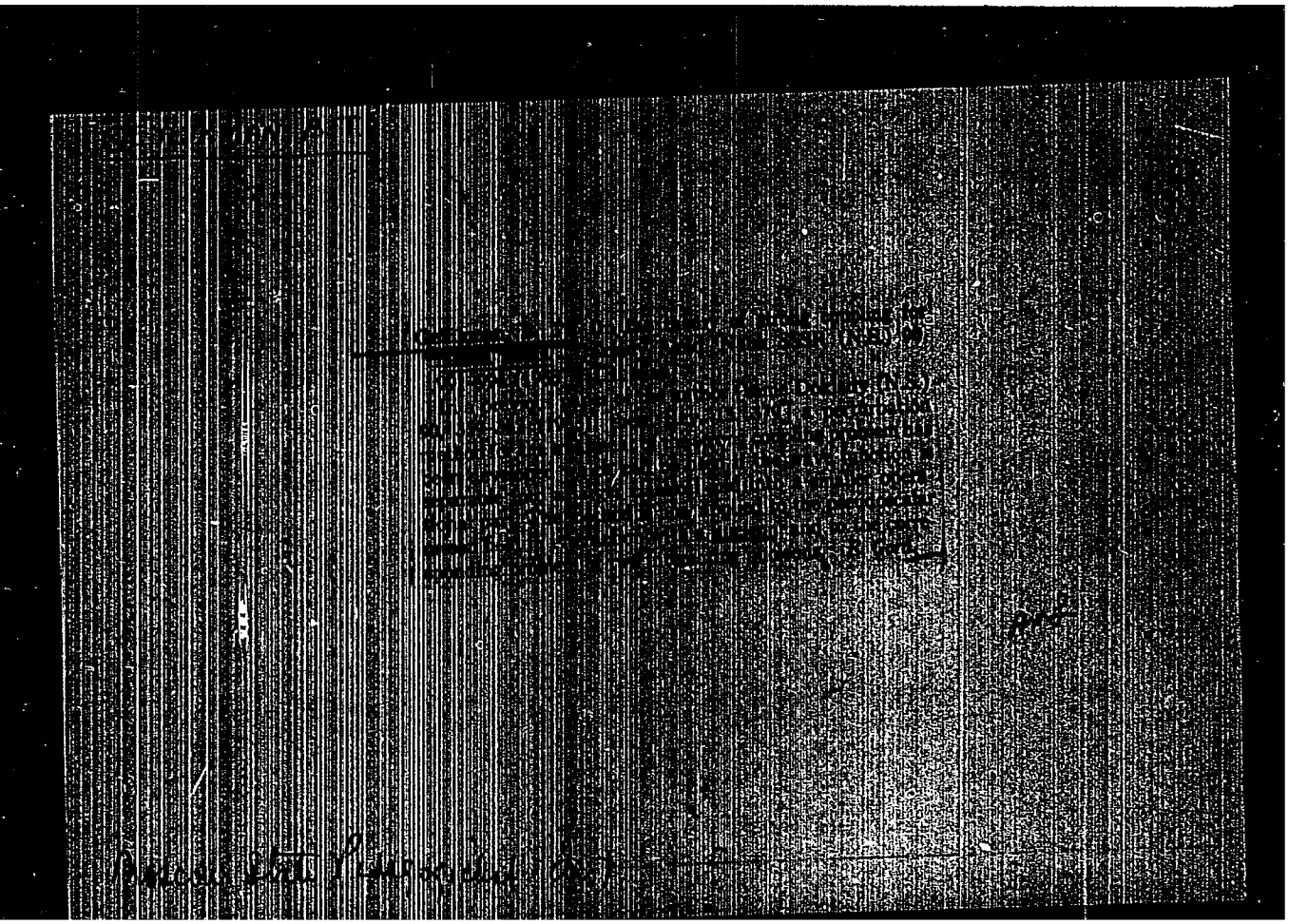
A treatment of the case of strong coupling between scalar and pseudoscalar meson fields and nucleons ($g^2/\hbar c \gg 1$) is based on the assumption that the wave function of the field can be represented as the sum of a large classical component and of a small operator component. The nucleus is described as an extended source of "radius" a. The classical component of the wave function is obtained first, and used as starting point in an approximation procedure for determining the operator component The method is applicable if the operator component is much smaller than the classical component, and this is shown to be the case for meson energies much smaller than g^2/a only. *E. Gora.*

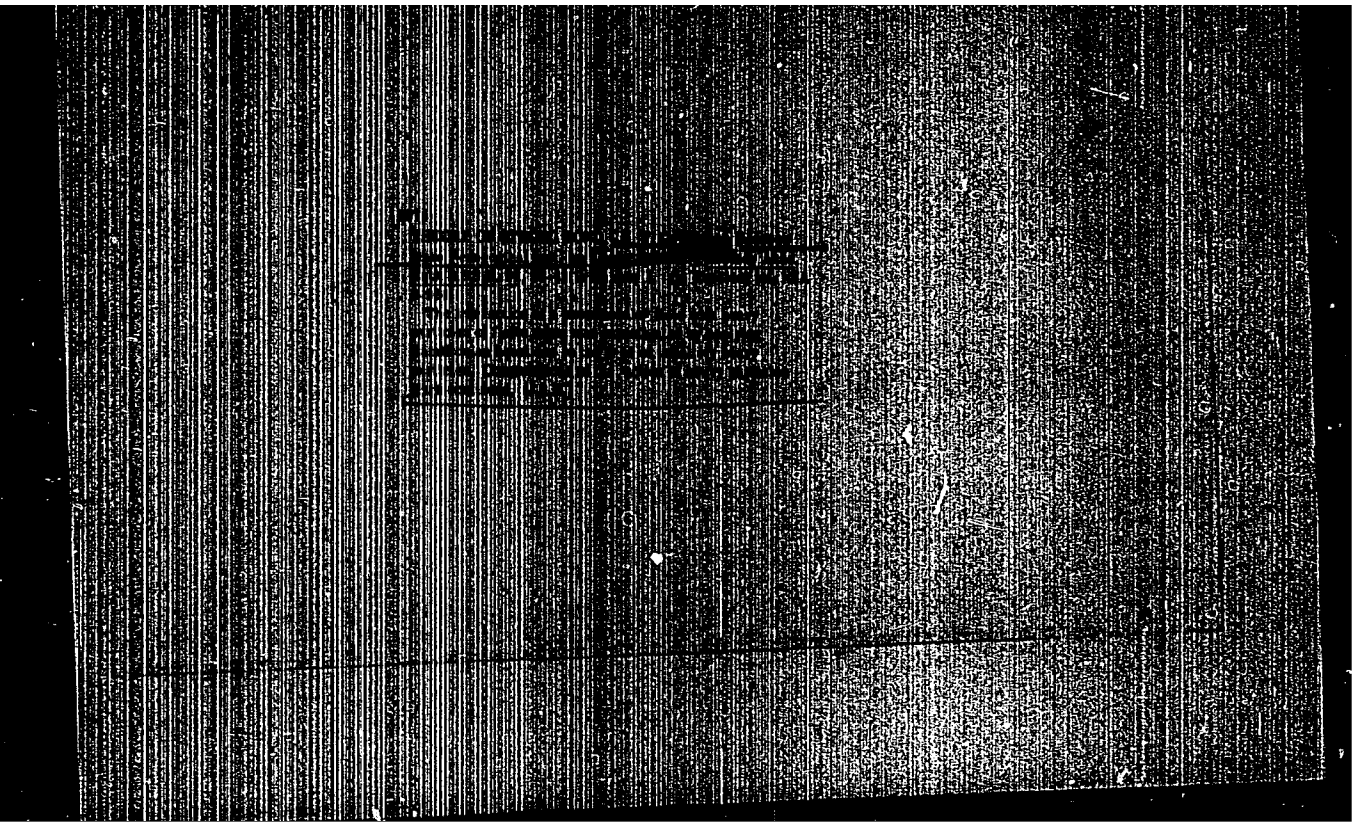
Mathematical Reviews
Vol. 15 No. 4
Apr. 1954
Mathematical Physics

RML 10·3·54

(PA 56 no. 6711: 8233 '53)

(Nuclear Science Abstracts, Vol. 8, No. 3, Feb 15, 1954)





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