8(0)

AUTHORS: Ebin, L. Ye., Professor, Doctor of Technical Sciences, ~~Levin, M. S.~~, Candidate of Technical Sciences, Zhulin, M. T., Engineer

SOV/[illegible]

TITLE: Standard Specifications for Economic Current Densities (Normy na ekonomicheskuyu plotnost' toka)

PERIODICAL: Elektrichestvo, 1958, Nr 11, pp 83 - 84 (USSR)

ABSTRACT: This is a comment on the article by P.G. Grudinskiy and Ye.N.Prikhonskiy in Elektrichestvo, 1957, Nr 5. This article gives a presentation of the method of determining standards of an economic current density with sufficient lucidity. Some parts of the work, however, are disputed and require a more precise substantiation. In this comment it is pointed to the fact that the value of T_e, which denotes the redemption period, actually has very little influence upon the choice of conductor size. A curtailing of the redemption period even within wide limits does not noticeably affect the limits of economic operation of conductors

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with adjacent size. The recommendations advanced by the authors of the article are not featured in a manner as to be applicable to practical cases of planning. It is considered to be more appropriate to start from a continuous variation of conductor size. If, however, a discontinuous sequence of conductor size variation is to be considered, it would be more correct to consider the interval of economic current-carrying capacity for the respective conductor size. The calculations would attain a higher degree of accuracy if in the determination of this interval the particular features of lines operating at differently rated voltages would be taken into account. Diagrams demonstrating that the limits of economic load of individual lines according to the climatic conditions may vary by a factor of 1.5 - 2 are presented. There are 2 figures and 3 Soviet references.

Standard Specifications for Economic Current Densities SOV/105-58-11-19/28

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (All-Union Scientific Research Institute for the Electrification of Agriculture)

Card 3/3

ZUL', N.M., kand. tekhn. nauk; LEVIN, M.S., kand. tekhn. nauk.

Sectionalization of rural electric networks. Mekh.i elek.sots.sel'khoz. 16 no.5:33-36 '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva.
(Electric power distribution) (Rural electrification)

LEVIN, M.S.

EBIN, L.Ye. doktor tekhn.nauk; LEVIN. M.S., kand.tekhn.nauk; ZHULIN M.T.

Economical loads for agricultural overhead lines of 6-10 kilovolts.
Dokl. Akad. sel'khoz. 23 no.3:45-48 '58. (MIRA 11:4)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva. Predstavlena akademikom I.A. Budzko.
(Electric power distribution)

SERGOVANTSEV, V.T., kand.tekhn.nauk; YURASOV, V.V., kand.tekhn.nauk; ALUKER, Sh.M., kand.tekhn.nauk; ANDRIANOV, V.N., doktor tekhn. nauk; ASTAF'YEV, N.N., kand.tekhn.nauk; BUDZKO, I.A., akademik; BYSTRITSKIY, D.N., kand.tekhn.nauk; VEYALIS, B.S., kand.tekhn. nauk; GIRSHBERG, V.V., inzh.; GORSHKOV, Ye.M., inzh.; GRICHEVSKIY, E.Ya., inzh.; ZAKHARIN, A.G., doktor tekhn.nauk; ZLATKOVSKIY, A.P., kand.tekhn.nauk; IOSIPYAN, S.G., inzh.; ITSKOVICH, A.M., dotsent; KAUFMAN, B.M., inzh.; KVITKO, M.N., inzh.; KORSHUNOV, A.P., inzh.; LEVIN, M.S., kand.tekhn.nauk; LOBANOV, V.N., dotsent; LITVINENKO, A.F., inzh.; MERKLOV, G.F., inzh.; PIRKHAVKA, P.Ya., kand.tekhn.nauk; PRONNIKOVA, M.I., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; FATYUSHENKO, S.G., inzh.; KHODNEV, V.V., inzh.; SHCHATS, Ye.L., kand.tekhn.nauk; EBIN, L.Ye., doktor tekhn.nauk; ENTIN, I.A., kand.tekhn.nauk; SILIN, V.S., red.; SMELYANSKIY, V.A., red.; BALLOD, A.I., tekhn.red.; SMIRNOVA, Ye.A., tekhn.red.

[Handbook pertaining to the production and distribution of electricity in agriculture] Spravochnik po proizvodstvu i raspredeleniiu elektricheskoi energii v sel'skom khozyaistve. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 900 p. (MIRA 13:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Budzko).
(Rural electrification)

SOV/110-59-4-16/23

AUTHORS: Prof. L.Ye. Ebin (Doctor of Technical Sciences), Levin M.S. and Yakobs A.I., (Candidates of Technical Sciences)

TITLE: A Scale of Standard Capacitor Ratings for Series Compensation of Rural Transmission Lines (Shkala nominal'nykh parametrov kondensatorov dlya prodol'noy kompensatsii sel'skikh setey)

PERIODICAL: Vestnik Elektropromyshlennosti,1959,Nr 4,pp 55-60(USSR)

ABSTRACT: Series compensation of rural transmission lines is being tried out in the Moscow and Leningrad oblasts. It is a hindrance to the general introduction of series compensation of rural lines that no suitable range of standard capacitors is available. This mathematical article sets out to suggest a rational range of capacitor ratings and rated voltages for series compensation of rural lines. Expressions are given for the permissible voltage overload of capacitors and for the minimum reactive power required for series compensation. In practice, in most cases, the reactive power required lies between 0.1 and 0.25 of the power transmitted by the system. Usually the capacitance required does not correspond to available standard values of capacitors and a number of capacitors must be

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A Scale of Standard Capacitor Ratings for Series Compensation of Rural Transmission Lines

connected in series, (as the rated current of rural lines does not usually exceed 60A there is usually no question of parallel or series-parallel connection of capacitors). Not only are there differences between the rated currents of lines and capacitors but also limitations in the range of capacitor ratings available make it necessary to use larger capacitance than is usually called for. The economic effect of having a continually variable series of capacitors is then considered and then the limitations introduced by having only a limited number of sizes are examined. It is considered that there should be either three or four sizes of capacitor in the range, and for 10 kV circuits a range of 50, 35 and 20 kVAR is to be preferred. The rated voltage of series capacitors is then briefly considered and it is recommended that capacitors intended for series compensation in rural

A Scale of Standard Capacitor Ratings for Series Compensation of Rural Transmission Lines

lines of 6 - 20 kV should be made for a rated voltage of 600 V whilst capacitors for systems of 35 kV should be made for a rated voltage of 1.0 kV.

Card 3/3 There are 5 figures, 1 table and 4 Soviet references.

SUBMITTED: May 22, 1958

LEVIN, M.S., kand.tekhn.nauk, ZHULIN, M.T., kand.tekhn.nauk

Increasing the calculated distance between poles for rural overhead steel aluminum lines. Nauch. trudy VIESKH 4:304-315 '59.
(MIRA 13:11)

(Electric lines--Overhead)

EBIN, L.Ye., doktor tekhn. nauk, prof.; LEVIN, M.S., kand.tekhn.nauk

Selecting the wire gauge for rural overhead lines and replacing conductors in connection with increased demands. Nauch. trudy VIESKH 6:229-253 '59. (MIRA 13:12)
(Electric lines--Overhead)
(Rural electrification)

FEYERMARK, M.M., inzh.; EBIN, L.Ye., doktor tekhn.nauk, LEVIN, M.S., kand. tekhn.nauk, ZUL', N.M., kand.tekhn.nauk, SOLNTSEV, V.M., inzh., KORSHUNOV, A.P., inzh.

Grounding of the neutral line in 6 and 10 kv. overhead networks. Energetik 8 no.11:12-16 N '60. (MIRA 13:12)

1. UGPI "Tyazhpromelektroproyekt" (for Feyermark). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (for Ebin, Levin, Zul'). 3. Giprosel'elektro (for Solntsev, Korshunov).

(Electric power distribution)
(Electric currents--Grounding)

LEVIN, M.S.

LISTOV, P.N., prof., doktor tekhn.nauk; GANELIN, A.M.; GRICHEVSKIY, E.Ye.; LEVIN, M.S.; MURADYAN, A.Ye.; SLAVIN, R.M.; YAKOBS, A.I.; DEMINA, G.A., red.; TOKER, A.M., tekhn.red.

[Electrician for rural electric power systems] Elektromonter sel'skoi elektrifikatsii. Pod red. P.N.Listova. Moskva, Vses. uchebno-pedagog.izd-vo Proftekhizdat, 1960. (MIRA 13:5)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhoz.nauk (VASKhNIL) (for Listov).
(Electricians--Handbooks, manuals, etc.)
(Electricity in agriculture)

LEVIN, M.S.

Using electronic calculating machines for analyzing rural electric networks. Mekh. i elek.sots. sel'khoz. 19 no.2:59-61 '61. (MIRA 14:3)

(Electric network analyzers)

LEVIN, M.S., kand.tekhn.nauk; MURADYAN, A.Ye., kand.tekhn.nauk; STOLYAROV, G.K., inzh.; KHOTYASHOV, E.N., inzh.

Electric and economic calculations of rural networks with electronic calculating machines. Mekh.i elek.sots.sel'khoz. 19 no.5:45-49 '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (for Levin, Muradyan).
(Electronic calculating machines)
(Electricity in agriculture)

LEVIN, M.S., kand.tekhn.nauk (Moskva)

Problems concerning criteria for the quality of automatic regulation of the operation of electric power systems. Elektrichestvo no.4:91-92 Ap '62. (MIRA 15:5)
(Electric power distribution)

EBIN, L.Ye., doktor tekhn.nauk; ZUL', N.M., kand.tekhn.nauk; LEVIN, M.S., kand.tekhn.nauk; YAKOBS, A.I., kand.tekhn.nauk; ZHULIN, M.T., kand.tekhn.nauk; IL'ICHEV, F.V., inzh.; KUZNETSOV, V.I., inzh.

Concerning A.P.Korshunov's article "Efficient design of 6 to 10 kv. rural electric power transmission lines." Elek. sta. 32 no.12: 78-83 D '61. (MIRA 15:1)
(Rural electrification) (Electric power distribution)
(Korshunov, A.P.)

EBIN, L.Ye., doktor tekhn.nauk; LEVIN, M.S., kand.tekhn.nauk; ZHULIN, M.T., kand.tekhn.nauk

Mechanical design of steel-reinforced aluminum wires with small cross section. Nauch. trudy VIESKH 7:89-115 '60. (MIRA 15:8)
(Electric lines)

LEVIN, M.S., kand.tekhn.nauk (Moskva)

Calculation of electric power distribution networks using the "Minsk" electronic digital computer. Elektrichestvo no.4:1-5 Ap '63. (MIRA 16:5)

(Electric power distribution)
(Electronic digital computers)
(Electric networks)

LEVIN, M.S., kand.tekhn.nauk

Use of electronic computers in calculating rural electric power distribution networks. Nauch. trudy VIESKH 11:185-204 '62. (MIRA 16:3)

(Electric power distribution) (Rural electrification)

BUDZKO, Igor' Aleksandrovich, doktor tekhn. nauk, prof.,akad.; ZAKHARIN, Andrey Georgiyevich, doktor tekhn. nauk; EBIN, Lev Yefimovich, doktor tekhn.nauk, prof.; KANAKIN, N.S., inzh.; LEVIN, M.S., kand. tekhn. nauk; YAKOBS, A.I., kand. tekhn. nauk; GROYS, Ye.S., inzh.; ZUL', N.M., kand. tekhn. nauk; POYARKOV, K.M., kand. tekhn. nauk; MURADYAN, A.Ye., kand. tekhn. nauk; KRAUSP, V.R., kand. tekhn. nauk; SHATS, Ye.L., kand. tekhn. nauk; IOKHVIDOV, E.S., red.; BUL'DYAYEV, N.A., tekhn. red.

[Rural electric power distribution networks] Sel'skie elektricheskie seti. Moskva, Gosenergoizdat, 1963. 262 p. (MIRA 16:5)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Budzko).
(Rural electrification) (Electric power distribution)

GANELIN, Aleksandr Moiseyevich; LEVIN, Moisey Solomonovich. Prinimali uchastiye: SERGIYEVSKIY, A.S.; KISHECHNIKOV, S.A.; LISTOV, P.N., doktor tekhn. nauk, prof., red.; MEL'NIKOVA, G.P., red.; TOKER, A.M., tekhn. red.

[Handbook for the beginning electrician working in rural electrification] Spravochnik molodogo mekhanika sel'skoi elektrifikatsii. Pod red. P.N.Listova. Moskva, Proftekhizdat, 1963. 464 p. (MIRA 16:8)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Listov).
(Rural electrification--Handbooks, manuals, etc.)

LEVIN, M.S., kand. tekhn. nauk; SMETANICH, Ya.S., kand. fizik-matematich. nauk; GRIMBLIT, I.B., inzh.; YEVSTIGNEYEVA, L.P., inzh.

Economic evaluation of the configuration of a power distribution network using an electronic digital computer. Elek. sta. 34 no.5: 51-54 My '63. (MIRA 16:7)

(Electric power distribution)
(Electronic digital computers)

EBIN, L.Ye., doktor tekhn. nauk, prof. (Moskva); LEVIN, M.S., kand. tekhn. nauk (Moskva)

Technical and economic basis for the reliability level of overhead power distribution lines. Elektrichestvo no.2:8-12 F '64. (MIRA 17:3)

BUDZKO, I.A., prof., doktor tekhn.nauk, akademik; EBIN, L.Ye., prof.; LEVIN, M.S., kand.tekhn.nauk

"Principles of efficient rural electrification" by V.K.Pilugachev. Reviewed by Vaskhnil and others. Elektrichestvo no.4:95-96 Ap '64. (MIRA 17:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina (for Budzko).

L 22592-66

ACC NR: AP6013001 SOURCE CODE: UR/0105/65/000/006/0091/0091

AUTHOR: Andrianov, V. N.; Budzko, I. A.; Venikov, V. A.; Demin, A. V.; Gorodskiy, D. A.; Grudinskiy, P. G.; Zakharin, A. G.; Krasnov, V. S.; Levin, M. S.; Listov, P. N.; Markovich, I. M.; Mel'nikov, N. A.; Nazarov, G. I.; Razevig, D. V.; Smirnov, B. V.; Stepanov, V. N.; Syromyatnikov, I. A.; Fedoseyev, A. M.; Yakobs, A. I.

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13

ORG: none

TITLE: Doctor of technical sciences, Professor L. Ye. Ebin (on the occasion of his 60th birthday

SOURCE: Elektrichestvo, no. 6, 1965, 91

TOPIC TAGS: scientific personnel, electric network, lightning

ABSTRACT: Professor Lev Yefimovich Ebin, 60, graduated in 1928 from the Kiyevskiy elektrotekhnicheskiy institut (Kiyev Electrotechnical Institute). Between 1929 and 1936, he worked in the Donenergo system and published various original papers on lightning protection and grounding devices. From 1936 EBIN works at the Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (All-Union Scientific Research Institute for the Electrification of Agriculture) where he heads a laboratory. In 1937, he defended his candidate's dissertation and in 1951 his Ph. D. Thesis dealing with studies of the nonsymmetrical operating conditions of electrical networks and of stationary and nonstationary electro-thermal processes in the

Card 1/2 UDC: 621.31

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ACC NR: AP6013001

country. These works served for further development of the rural distribution networks. He showed considerable interest in the problem of the raising of scientific personnel. Ebin was decorated with "Znak pocheta" and various medals. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2 yw

LEVIN, M.S.

A necessary book. Zashch. rast. ot vred. i bol. 8 no.4:61 Ap '63. (MIRA 16:10)

1. Direktor Respublikanskoy stantsii zashchity rasteniy.
(Plant diseases)

LEVIN, M.S.

Recent developments in the organization of the plant protection service in Estonia. Zashch. rast. ot vred. i bol. 7 no.1:9-12 '62. (MIRA 15:6)

1. Direktor Respublikanskoy stantsii zashchity rasteniy, Estonskaya SSR.
(Estonia--Plants, Protection of)

LEVIN, M.Sh.

Digestive capacity of pancreatin. Dokl.AN BSSR 2 no.10:431-433 N '58. (MIRA 12:8)

1. Predstavleno akademikom AN BSSR T.N.Godnevym.
(PANCREATIN)

VOTYAKOV, V.I.; ZIBITSKER, D.Ye.; LEVIN, M.Sh.; KOROTKEVICH, V.I.; BELOUSOVA, V.K.; TERESHONOK, N.G.

The technic of manufacturing dried phenolized antirabies vaccine. Vop.virus. 3 no.1:49-50 Ja-F '58. (MIRA 11:4)

1. Belorusskiy institut epidemiologii, mikrobiologii i gigiyeny, Minsk.
(RABIES, prevention & control
dried phenolized vaccine, prep., technic (Rus)

LEVIN, M.Sh.

Preparing developers without mercury chloride for electrophoretic examination of proteins on filter paper. Lab.delo 4 no.6:47 N-D '58 (MIRA 11:12)

1. Iz biokhimicheskoy laboratorii (zav. - kand.biol.nauk M.Sh. Levin) Minskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(PAPER ELECTROPHORESIS)
(PROTEINS)

NOTYAKOV, V.I.; NEMBAYLIK, A.I.; NEYFAKH, L.G.; LEVIN, M.Sh.

Influence of the composition of VKL culture medium and of the age of the culture on the number of live microbes in dry BCG vaccine. Zdrav. Belor. 5 no.2:17-19 F '59. (MIRA 12:7)

1. Belorusskiy institut epidemiologii, mikrobiologii i gigiyeny.
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(VACCINES)

EDEL'SHTEYN, Il'ya Vladimirovich; DUKHLIY, Vasiliy Alekseyevich; LEVIN, Moisey Solomonovich; RYABENKO, A.I., red.; GULENKO, O.I. [Hulenko, O.I.], tekhn. red.

[Financing and issuing credit to agricultural enterprises] Finansirovanie i kreditovanie sel'skokhoziaistvennykh predpriiatii. Kiev, Gossel'khozizdat USSR, 1962. 347 p. (MIRA 16:2)

(Agriculture—Finance)

LEVIN, M.V.

SOV/137-58-8-16625

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 53 (USSR)

AUTHORS: Popov, R.B., Levin, M.V., Munits, I.N.

TITLE: On the Prerequisites for Automation of Enterprise in the Aluminum Industry (O predposylkakh avtomatizatsii predpriyatiy alyuminiyevoy promyshlennosti)

PERIODICAL: Sb. materialov tekhn. inform. Gos. in-t po proyektir. alyumin., magniyevykh i elektrodn. z-dov, 1957, Nr 1, pp 36-38

ABSTRACT: An examination is made of the major conditions for automation of processes in the aluminum industry, namely, continuity of the process, operational reliability and controllability of the equipment, and good dynamic process characteristics. Examples are presented of the models and dimensions of plant and equipment specified in plans and yet unsuited to the requirements of automation. The problem of the need to develop control attachments for unstable and readily crystallizing solutions and pulps of alumina production is examined, also the need for expanding investigations of the objects and methods of automation, as well as introduction of special means of automation

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On the Prerequisites for Automation of Enterprise (cont.)

meeting the operational needs under the conditions obtaining in the production of aluminum and alumina.

V. Shch.

1. Aluminum industry--USSR 2. Aluminum industry--Automation

Card 2/2

VOYTINSKIY, Ye.Ya. (Leningrad); LEBEDEV, O.M. (Leningrad); LEVIN, M.V. (Leningrad); MUNITS, I.N. (Leningrad)

Graphic method for the periodic analysis of the measurement and evaluation of encephalograms. Vop.psikhol. 9 no.2:152-157 Mr-Ap '63. (MIRA 16:4)

(Electroencephalography)

LEVIN, M.V., inzhener.

Finishing cellular concrete wall panels and blocks. Stroi. prom. 35 no.4:36-37 Ap '57. (MLRA 10:3)
(Building blocks)

LEVIN, M.V., inzh.; YELYKOVA, T.A.

Autoclave-hardened porous concretes made with local Ural materials. Trudy NIIZHB no.8:129-135 '59.
(MIRA 13:4)

1. Sverdlovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta promyshlennykh sooruzheniy.
(Sverdlovsk Province--Lightweight concrete)
(Perm Province--Lightweight concrete)

LEVIN, M.V., insh.

Causes of crack formations in foamed concrete panels and methods for their elimination. Trudy NIIZHB no.8:151-157 '59.
(MIRA 13:4)

1. Sverdlovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta promyshlennykh sooruzheniy.
(Concrete slabs) (Lightweight concrete)

ZABROVSKIY, Ye.M.; LEVIN, M.V., nauchnyy sotrudnik

Constructing a precast viaduct using high-strength rapid hardening concretes. Prom.stroi. 37 no.3:38-41 Mr '59.
(MIRA 12:4)

1. Glavnyy inzhener tresta Yuzhural metallurgstroy (for Zabrovskiy). 2. Nauchno-issledovatel'skiy institut promzdaniy i sooruzheniy Akademii stroitel'stva i arkhitektury SSSR (for Levin).
(Precast concrete construction) (Viaducts)

KUDRYASHEV, I.I.; BARANOV, A.T; ROZENFEL'D, L.M.; BORDYUG, D.Ya.; LEVIN, M.V.; KALNINA, N.A.; KAN, F.A.; VAS'YANOV, D.P., red.; KUZNETSOV, A.I., tekhn. red.

[Technical specifications for manufacturing articles from cellular concrete, foamed fly ash concrete, breeze foamed fly ash silicate, and foamed clinker concrete] Tekhnicheskie usloviia na izgotovlenie izdelii iz avtoklavnykh iacheistykh betonov - penozolobetona, penozolosilikata i penoshlakobetona; proekt. Moskva, TSentr. biuro tekhn. informatsii, 1959. 62 p.
(MIRA 15:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut novykh stroitel'nykh materialov, otdelki i oborudovaniya zdaniy. 2. Nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Kudryashev). 3. Nauchno-issledovatel'skiy institut betona i zhelezobetona (for Baranov, Rozenfel'd). 4. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Bordyug, D.Ya.). 5. Nauchno-issledovatel'skiy institut promyshlennykh zdaniy i sooruzheniy (for Levin). 6. Zapadno-Sibirskiy filial Akademii stroitel'stva i arkhitektury SSSR (for Kalnina). 7. Ural'skiy filial Akademii stroitel'stva i arkhitek-

LEVIN, M.V.

Effectiveness of two-stage heating in the manufacture of air-entrained slag ash silicate slabs. Bet. i zhel.-bet. 8 no. 5:199-201 My '62. (MIRA 15:6)

1. Rukovoditel' laboratorii tekhnologii avtoklavnykh izdeliy Sverdlovskogo nauchno-issledovatel'skogo instituta po stroitel'stvu. (Sand-lime products) (Lightweight concrete)

ACCESSION NR: AT4042303 S/0000/63/003/000/0263/0270

AUTHOR: Avstreykh, G. A., M. V. Levin, Lyandres, M. B., Timofeyev, V. V.

TITLE: Electromagnetic DC pump for pumping metal in the system for cooling electrolyzer elements

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike, 3d, Riga, 1962. Voprosy* magnitnoy gidrodinamiki (Problems in magnetic hydrodynamics); doklady* soveshchaniya, v. 3. Riga, Izd-vo AN LatSSR, 1963, 263-270

TOPIC TAGS: direct current pump, electromagnetic pump, liquid metal pump, refrigeration, cooling system, electrolyzer, conduction pump

ABSTRACT: The authors note that in the production and transport of light metals pumps with high-power and high-efficiency are required, while in order to ensure accurate measurements it is essential that the pumps used have good adjustment qualities. At different stages of the production process the conditions under which the pump is operated and the power supplies used to drive it may vary considerably (in electrolysis plants high-power DC lines are available; in other shops single-phase or three-phase AC is preferred). Different types of pumps are therefore required in the production of light metals. In the present article, one of the cases in which an electromagnetic pump is used in light metal

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ACCESSION NR: AT4042303

production is considered. During the process of testing one of the electrolyzers it was discovered that there was a need to cool the rods to which the cathode was attached. Air cooling was found to be ineffective, and water cooling was rejected for reasons of safety. This led to the decision to employ the liquid metal as the coolant. A DC conduction pump with series-connected driving coil was selected as the best pump for the particular task. In order to make use of the DC lines in the shop the pump was connected in series with the electrolyzer. The advantages of this type of connection under the specific conditions encountered are discussed in the article. The pump designed for the test electrolyzer was rated to provide a flow of the heat-carrying agent (a eutectic Pb-Bi alloy) of Q = 0.5-0.7 m^3/hour at a pressure of P = 1.5 kg/cm^2. A 2000-2500-ampere power supply was used to drive the pump. The pump was operated for 30 days in the cooling system of the experimental cathode device of the electrolyzer. After this period, inspection of the pump and the inner part of the channel failed to reveal any damage whatsoever. The efficiency of the pump, calculated on the basis of its pressure, productivity and power consumption when operating with the experimental electrolyzer, was only 2-3%. The authors describe the various calculation methods normally used in the design of pumps with optimal structural dimensions. Since the pump reported on in this article had non-optimal dimensions, a study was made of the applicability of these methods to such pumps (that is, to pumps

ACCESSION NR: AT4042303

whose structural dimensions are not optimal). The stand on which the pump testing was performed is described in detail in the article. It is noted that the same alloy used in the cooling system was employed as the working liquid. The processing of the experimental results of this test is described (the method of least squares was specifically used in the approximation of these data). The fundamental mathematical expression, on the basis of which the calculated characteristics of the pump were obtained, is analyzed. The authors note that the determination of the causes of the divergence between calculated and experimental $p = f(Q)$ characteristics, when the static characteristics show good agreement, is essential to the design of a pump to be used in an industrial cooling system associated with an electrolyzer cathode unit, since it is to a large degree on the nature of these causes that the feasibility of employing the conventional methods of calculating high-power pumps with non-optimal dimensions depends. Orig. art. has: 2 formulas and 4 figures.

ASSOCIATION: None

SUBMITTED: 04Dec63 ENCL:00 SUB CODE: IE

NO REF SOV: 006 OTHER: 004

3/3

Card

GORFMAN, A.I., kand. tekhn. nauk, dots.; DEMBO, A.M., kand. tekhn. nauk, dots.; LEVIN, M.V., inzh.; STEFANOV, G.B., 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)

YEREMENKO, Yu.M., aspirant; LEVIN, M.V., kand. tekhn. nauk; SATALKIN, A.V., doktor tekhn. nauk

Porous slag silicate as the lightweight structural concrete. Stroi. mat. 10 no.11:32-33 N '64. (MIRA 18:1)

L 27966-66 EWT(m)

ACC NR: AP6017682 SOURCE CODE: UR/0097/65/000/012/0028/0030

AUTHOR: Dubrovina, N. I. (Engineer); Levin, M. V. (Candidate of technical sciences); Soroker, V. I. (Doctor of technical sciences); Petrov, V. S. (Technician)

ORG: none

TITLE: Deformation of cellular concrete during autoclave processing

SOURCE: Beton i zhelezobeton, no. 12, 1965, 28-30

TOPIC TAGS: concrete, material deformation, thermocouple

ABSTRACT: A device has been developed for measuring axial deformation of concrete in an autoclave. The device consists of a brace for a concrete test section 7 x 7 x 21 cm, one end of which is fixed, the other end being a transducer to measure lengthening or shortening of the test sample, plus a thermocouple to be imbedded in the center of the test sample. Samples of porous and cellular concrete were subjected to autoclave testing of 4 + 4 + 10 hours, maximal autoclave steam pressure 10 atm. It was found that various types of cellular concrete have different strengths before steam treatment and are capable of resistance to the temperature stresses and destructive processes during steam treatment to different degrees. Measuring the deformation of cellular concrete during autoclave treatment allows a judgement to be made on the suitability of the various types of raw materials used, the sufficiency of drying of the concretes before the treatment and

Card 1/2 UDC: 666.973.6.046.8

L 27966-66

ACC NR: AP6017682 0

the usability of the given steaming conditions for the given composition of concrete. Series production of the autoclave devices used in the experimentation is recommended. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 11, 20, 13 / SUBM DATE: none

Card 2/2 CC

VOYTINSKIY, Ye.Ya.; LEVIN, M.V.; MUNITS, I.N.

Analysis of the electrocencephalogram by the periodogram method. Biofizika 8 no.2:242-245 '63. (MIRA 17:10)

1. Leningradskaya psikhonevrologicheskaya bol'nitsa im. P.P. Kashchenko.

LEVIN, M. YA.

USSR/General Biology, Cytology. B-2

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35049

Author : Levin, M. Ya.
Inst :
Title : Concerning the Reproduction of Stable Cellular Elements in Wharton's Jelly in the Umbilical Cord of Man

Orig Pub: Dokl. AN SSSR, 1955, 104, No 6, 922-924

Abstract: The reproduction of the connective tissue cells in Wharton's jelly in man's umbilical cord is described. Numerous mitoses occur beginning with the early stages of the embryo's development (0.7 cm long) to the seventh month of uterine life. Amitoses with transverse and longitudinal lacing of the nucleus and fragmentation of the nucleus occurs from the third month of uterine life. No success was achieved in establishing a distinct localization of the cell division within the bounds of the umbilical cord. The absence in the later stages of the development

Card : 1/2 -1-

USSR/General Biology, Cytology. B-2

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35049

of the embryo of mitosis in Wharton's jelly indicates, in the opinion of the author, the early differentiation of its connective tissue elements preserving the ability to reproduce only by means of amitosis.

Card : 2/2 -2-

LEVIN, M.E.

LEVIN, M.E. Gas masks for the population. 2. izd., dop. Moskva, Cos. nauchno-tekhn. izd-vo khim. lit-ry, 1942. 46 p. (54-53479)

UG447.6.L4 1942

PHASE I BOOK EXPLOITATION 1132

Levin, M.Ye., Malinin, G.A., Mandrazhitskiy, M.N., Sinitsyn, V.P. and Fedorov, V.I.

Zashchita ot sredstv massovogo porazheniya (Defense Against Weapons of Mass Destruction) Moscow, Uchpedgiz, 1958. 181 p. 100,000 copies printed.

Eds. (Title page): Sinshchyn, V.P. Candidate of Technical Sciences and Malinin, G.A. Ed. (Inside book): Lavrovskiy, K.F.; Tech. Ed:Natapov, M.I.

PURPOSE: This book is intended for public instructors of the PVO DOSAAF (Antiaircraft Defense Unit of the All-Union Voluntary Society for the Promotion of the Army, Aviation and Navy).

COVERAGE: This book includes general information on atomic, chemical and bacteriological weapons and measures for individual and collective protection from them. The various authors contributed to the text as follows: M.Ye. Levin wrote Chapters 1,2,3,4 and 6; M.N. Mandrazhitskiy - Chapters 7,8 and 9; G.A. Malinin - Chapter 10; V.P. Sinitsyn--Chapters 11, 12, and 14; and V.I. Fedorov - Chapter 5.

Card 1/ 3

Defense Against Weapons (Cont.)

There are no references

TABLE OF CONTENTS:

PHASE I BOOK EXPLOITATION SOV/4103

Levin, Moisey Yevseyevich, Georgiy Andreyevich Malinin, Mikhail Nikolayevich Mandrazhitskiy, Valentin Petrovich Sinitsyn, and Valeriy Ivanovich Fedorov

Zashchita ot sredstv massovogo porazheniya (Protection Against Means of Mass Destruction) 2nd ed. Moscow, Uchpedgiz, 1960. 176 p. 50,000 copies printed.

General Ed.: V. P. Sinitsyn, Candidate of Technical Sciences, and G. A. Malinin. Ed.: A. A. Korotkiy; Tech. Ed.: R. V. Tsyppo.

PURPOSE: This book is intended for the public instructors of PVO DOSAAF (Air Defence Organization under the All-Union Voluntary Society for the Promotion of the Army, Aviation and Navy).

COVERAGE: The book gives fundamental information on atomic, chemical, and bacteriological weapons and on means of individual and collective protection. It states that the problem has been studied sufficiently and that at the present time adequate means of protection exist for a well-organized and trained population. No personalities are mentioned. There are no references.

Card ~~1/3~~

Poisonous, Radioactive, or Bacteriological Substances

Card 2/3

Protection Against Means of Mass Destruction SOV/4103

AVAILABLE: Library of Congress (UA926.I38 1960)

AC/rn/ec
8-25-60

Card 3/3

SOV/112-58-3-4206

8(0)

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 3, p 108 (USSR)

AUTHOR: Levin, M. E.

TITLE: Type U542 Ferrometer (Ferrometr tipa U542)

PERIODICAL: V sb.: Raboty M-va elektrotekhn. prom-sti SSSR po mekhaniz. i avtomatiz. nar. kh-va. 3. M., 1956, pp 201-203

ABSTRACT: Principal data are reported on the type U542 ferrometer developed by Kiyev "Tochelektropribor" plant. The ferrometer permits determining the following characteristics of magnetically soft materials: (1) dependence of peak flux density on the peak or effective values of the field strength, or the peak value of the field-strength first harmonic; (2) relationship between the first harmonic of the flux density and the field strength; (3) dependence of the permeance and specific losses on the flux density or the field strength. The errors in determining flux density or field strength do not exceed ± 5%. The specimens should be in the form of bands or ring packs.

I.I.K.

Card 1/1

LEVIN, M.E.

Unit of the U5011 type for determining losses in sheet materials at frequencies up to one kilocycle. Trudy inst. Kom.stand.mer i izm. prib no.64:65-69 '62. (MIRA 16:5)
(Sheet steel—Magnetic properties) (Magnetic measurements)

LEVIN, M. (Khar'kov); KRIVETS, I., fotolyubitel' (Vorkuta)

Support for the "Luch-57" flashlamp. Sov.foto. 19 no.8:56 Ag '59. (MIRA 13:1)
(Photography--Equipment and supplies)

Levin, M. Z.

Determination of the Pressure of Metal on the Rolls

Levin, M. F. [illegible]

Prom. [illegible] Stal [illegible]

Results of experimental determinations of rolling pressures in a continuous strip mill are presented and compared with calculated values. The temperature and width of the strip, the reduction, rolling speed, chemical composition and mechanical properties of the metal were determined simultaneously.

Donets Industrial Inst

LEVIN M.Z.

137-58-1-633

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 99 (USSR)

AUTHORS: Levin, M. Z., Shumilov, K. D.

TITLE: Determining the Counterweight Required to Balance the Load on the Upper Roll of a Blooming Mill (K opredeleniyu vesa kontrgruza pri gruzovom uravnoveshivanii verkhnego valka blyuminga)

PERIODICAL: Tr. Donetsk. industr. in-ta, 1957, Vol 19, pp 65-67

ABSTRACT: In designing load balance, the starting point is the requirement that the pressure between the bearings of the upper roll and the clampdown screws must be 20-40 percent of the weight of the parts (P) to be counterbalanced; this yields a counterweight that is quite large. An analytical expression is derived for the relationship between the moment of the counterweight and the moment of the weight of the P to be counterbalanced, with allowance for the rated torque of the motor (M), the ratio of the starting torque of the M to its rated torque, the dimensions of the clampdown screws, the transmission train value from M to clampdown screws, the flywheel moment of the motor, and correction factors for the flywheel moment of

Card 1/2

137-58-1-633

Determining the Counterweight Required (cont.)

other parts and for the resistance of the friction forces between the P. An example of the determination of the magnitude of a necessary minimum counterweight is presented.

P.G.

1. Blooming mills--Rolls--Counterbalancing

Card 2/2

SOV/137-57-11-21405

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 106 (USSR)

AUTHORS: Levin, M.Z., Shumilov, K.D.

TITLE: Determining the Power of a Motor to Drive a Wire Reel (Opredeleniye moshchnosti dvigatelya dlya privoda provolochnoy motalki)

PERIODICAL: Tr. Donetsk. industr. in-ta, 1957, Vol 19, pp 73-75

ABSTRACT: Equations are presented for determination of the power (P) of the motor (M) required to drive reels in which the distribution of the wire (W) in annular form into a coil is done by a rotating cone. The total P of the M required to drive such reels is $N=N_1+N_2$ hp, where N_1 is the MP required to rotate the cone, this being calculated by the equation $N_1=ka^2V_r/75\eta$ hp (K being a coefficient for steel W), wherein K is $\pi \cdot 7800/4 \cdot 9.81=625$, d is the diameter of the W in m, V_r is the relative velocity of the W in m/sec, equal to the rolling rate, and η is the efficiency of transmission from motor to cone. N_2, the motor power required to strand the W, is found from the equation:

Card 1/2

Determining the Power of a Motor to Drive a Wire Reel

$N_2 = \frac{0.4 d^3 \sigma_s V_r}{7500 D \eta}$ hp, where σ_s is the yield point of the wire material in kg/cm^2. D is the diameter of the reel of W.

V.D.

Card 2/2

SOV/137-57-10-18724

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 39 (USSR)

AUTHOR: Levin, M.Z.

TITLE: Selection of Parameters for a Blast-furnace Skip Hoist (Vybor parametrov skipovogo pod"yemnika domennoy pechi)

PERIODICAL: Tr. Donetsk. industr. in-ta, 1957, Vol 19, pp 77-82

ABSTRACT: We are informed that intensification of blast-furnace operation leads to an effort to raise the capacity of skip hoists by increasing the capacity of the skip car. It is pointed out that in some instances it is helpful to increase the speed of movement of the skip cars. The derivation of an equation for determining optimum speed is given, and an example of the determination thereof is adduced.

L.S.

Card 1/1

LEVIN, M.Z.

Possible rope acceleration during the lowering of skip hoists in dump tracks. Trudy ~~DII~~ 36 Ser.met. no.6:73-75 '59. (MIRA 14:9)

(Hoisting machinery)

LEVIN, M.Z.; SHUMILOV, K.D.

Determination of moments in the transmission coupling of a rolling mill during the gripping of metal by the rolls. Trudy DII 36 Ser.met. no.6:86-93 '59. (MIRA 14:9)
(Rolling mills--Transmission devices)

S/123/61/000/002/008/017
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1961, No. 2, p. 17, # 2V130

AUTHORS: Levin, M. Z., Shumilov, K. D., Leshchinskiy, M. F., Rafalovich, A. I., Dobronog, S. N.

TITLE: The Determination of the Pressures on the Rolls and the Power of the Motor of Roll-Straightening Machines

PERIODICAL: "Tr. Donetsk. industr. in-ta", 1959, No. 36, pp. 5-27

TEXT: Formulae are presented for determining the bending moments, the radii of curvature, the pressure on the rolls, and the power of the motor. A method is given for verifying the calculation formulae by the investigation of the straightening process of 8-20 mm thick sheets on a 7-roll plate-straightening machine. It is suggested to make more precise the calculation of roll-straightening machines by determining the power consumed by each roll to straightening a strip. The power is calculated from the total curvature (removable curvature + curvature of deflection); hereat, the deflection curvature is determined from the experimental magnitude of the depth of curvature, under the assumption that the bent axis of

Card 1/2

LEVIN, M.Z., dotsent

Selection of a reduction gear ratio. Izv.vys.ucheb.zav.; chern. met. 2 no.5:101-105 My '59. (MIRA 12:9)

1. Donetskiy industrial'nyy institut. Rekomendovano kafedroy mekhanicheskogo oborudovaniya metallurgicheskikh zavodov Donetskogo industrial'nogo instituta.
(Metalworking machinery--Transmission devices)

LEVIN, M.Z.; SHUMILOV, K.D.; LESHCHINSKIY, M.F.; RAFALOVICH, A.I.; DOBROSOG, S.N.

Determining pressures on rollers and capacity of the motor for roller straighteners. Trudy DII 36 Ser.met. no.6:5-27 '59. (MIRA 14:9)

(Rolling mills--Equipment and supplies)

LEVIN, M.Z.; SEDUSH, V.Ya.; SHUMILOV, K.D.

Investigation of blast furnace tap guns. Izv. vys. ucheb. zav.; chern. met. no.10:167-171 '60. (MIRA 13:11)

1. Donetskiy industrial'nyy institut.
(Blast furnaces--Equipment and supplies)

LEVIN, M.Z.; LESHCHINSKIY, M.F.

Investigating rapid winches for manipulating the bells. Izv.vys. ucheb.zav.; chern.met. 5 no.11:188-190 '60. (MIRA 15:12)

1. Donetskiy politekhnicheskiy institut.
(Blast furnaces—Equipment and supplies)

LEVIN, M.Z.; SEDUSH, V.Ya.

Investigating the performance curves of blast furnace charging mechanisms. Izv. vys. ucheb. zav.; chern. met. 4 no.11:176-181 '61. (MIRA 14:12)

1. Donetskiy politekhnicheskiy institut.
(Blast furnaces--Equipment and supplies)
(Feed mechanisms)

LEVIN, M. Z.; SEDUSH, V. Ya.

Determining the pressure acting on the piston of a clay gun.
Izv. vys. ucheb. zav.; chern. met. 7 no. 4:164-171 '64. (MIRA 17:5)

1. Donetskiy politekhnicheskiy institut.

LEVIN, M.Z.; LESHCHINSKIY, M.F.; SHUMILOV, K.D.; SEDUSH, V.Ya.; GORYUNOV, Yu.G.

Forces in pushing the metal through manipulator rolls on continuous billet mills. Izv. vys. ucheb. zav.; chern. met. 7 no.8:76-80 '64. (MIRA 17:9)

1. Donetskiy politekhnicheskiy institut.

LEVIN, M.Z.

Checking a floor-type charging machine for skidding and warpage. Izv.vys.ucheb.zav.; chern.met. 8 no.6:191-193 '65.
(MIRA 18:8)

1. Donetskiy politekhnicheskiy institut.

LEVIN, N.A. (Yaroslavl', ul. Tolbukhina, 37/17, kv.31)

Vascular glomeruli in the inner ear of man. Arkh. anat. gist. i embr. 41 no.7:109-111 Jl '61. (MIRA 15:2)

1. Kafedra anatomii cheloveka (zav. - prof. A.N.Alayev) Yaroslavskogo meditsinskogo instituta.
(LABYRINTH (EAR)--BLOOD SUPPLY)

LEVIN, N. A. and GOLOVIN, O. V.

"The Helminths of Shrews and Murine Rodents in the Arkhangel'sk Oblast."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Lumber and Wood Chemistry of the USSR Academy of Sciences, Arkhangel'sk.

GUTNER, I.I. (Leningrad, 51, Beloostrovskaya, 39, korp.4, kv.48);
LEVIN, N.A. (Yaroslavl', ul. Tolbukhina, 37/17, kv.31)

Phenomena of "fenestration" and "balls" in the neurons of sensory ganglia. Arkh.anat.,gist.i embr. 44 no.1:93-100 Ja '63.
(MIRA 16:5)

1. Kafedra patologicheskoy anatomii (zav. - prof. V.G. Chudakov) Leningradskogo pediatricheskogo meditsinskogo instituta i kafedra normal'noy anatomii (zav. - prof. A.N. Alayev) Yaroslavskogo meditsinskogo instituta.
(NERVES—ANATOMY)

LEVIN, N.I.; LIOGON'KAYA, R.I.

Reviewing the State Standard for active mineral additives for binding substances. TSement 28 no.1:5-6 Ja-F '62. (MIRA 16:5)
(Binding materials--Standards)

LEVIN, N.A.

Relation of the anatomical structure of a bird's bony labyrinth to its way of life. Zool.zhur. 34 no.3:601-604 My-Je '55. (MLRA 8:8)

1. Kafedra normal'noy anatomii Yaroslavskogo meditsinskogo instituta
(Birds--Anatomy) (Labyrinth (Ear))

LEVIN, N.A., kandidat meditsinskikh nauk.

Specimen preparations of animal tssues and organs. Est.V shkole no.3: 83-84 My-Je '56. (MLRA 9:8)

1. Yaroslavskiy meditsinskiy institut.
(Natural history--Technique)

LEVIN, N.A., kand.med.nauk.

Making photographic copies of biological drawings. Biol. v shkole no.5:83 S-O '58. (MIRA 11:11)

1. Yaroslavskiy meditsinskiy institut.
(Visual aids) (Photomechanical processes)

LEVIN, M.A., kand.med.nauk

Inexpensive method of stuffing and mounting animals. Biol. v shkole 6:81 N-D '58. (MIRA 11:11)

1. Yaroslavskiy meditsinskiy institut.
(Taxidermy)

LEVIN, N.A.

Applying physical modeling to the calculation of optimum parameters of smoothing LC filters. Izv.vys.ucheb.zav.; prib. 5 no.5:8-15 '62. (MIRA 15:9)

1. Leningradskiy elektrotekhnicheskiy institut svyazi imeni M.A. Bonch-Bruyevicha. Rekomendovana kafedroy energetiki predpriyatiy svyazi.
(Electric filters)

S/146/62/005/005/002/016
D201/D308

AUTHOR: Levin, N. A.

TITLE: Physical modelling in the design of optimum parameters of smoothing LC filters

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 5, no. 5, 1962, 8-15

TEXT: The author shows the relationship between physical modelling criteria and the design and cost parameters of a choke-input (LC) smoothing filter. Design formulas are derived which make it possible to apply the results of physical model analysis of an LC filter to the calculation of its optimal parameters. The procedure of calculating these parameters, as determined on a physical model, is given. It is shown that the above design problem can be solved on a digital computer by minimizing the reduced filter weight function of several dimensionless variables and the program for this operation on a БЭСМ-2 (BESM-2) computer is given. There are 5 figures.

Card 1/2

S/146/62/005/005/002/016
D201/D307

Physical modelling in ...

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut svyazi im. M. A. Bonch-Bruyevicha (Leningrad Electrical Engineering Institute of Communication im. M. A. Bonch-Bruyevich)

SUBMITTED: January 23, 1962

Card 2/2

LEVIN, N.A. (Yaroslavl', ulitsa Tolbukhina, 37/17, kvartira 31)

Blood supply of the labyrinth in cattle. Arkh. anat., gist. i embr. 45 no.7:96-103 Je '63. (MIRA 17:4)

1. Kafedra anatomii cheloveka (zav. - prof. A.N. Alayev) Yaroslavskogo meditsinskogo instituta.

LEBEDEV, A.N., kandidat tekhnicheskikh nauk; LEVIN, N.F., redaktor; RATNIKOVA, A.P., redaktor; SABITOV, A., tekhnicheskiy redaktor

[Mine shaft supports in the Karaganda basin] Podderzhanie gornykh vyrabotok na shakhtakh karagandinskogo bassenina. Moskva, Ugletekhizdat, 1954. 85 p. (MLRA 8:6)
(Karaganda Basin--Mine timbering)

TASTENOV, Abil'-Mazhit, kandidat tekhnicheskikh nauk; LEVIN, M.F., otvetstvennyy redaktor; ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor

[Layer mining of thick coal seams in the Karaganda Basin] Sloevaia razrabotka moshchnykh ugol'nykh plastov v Karagandinskom basseĭne. Moskva, Ugletekhizdat, 1956. 38 p. (MLRA 10:3)
(Karaganda Basin--Coal mines and mining)

LEVIN, N.F.

INOZEMTSEV, Pavel Petrovich; POLOZHIY, Fedor Mikhaylovich; SHMAYDMAN, Maks Iosifovich; CHERKASSKIY, Feliks Borisovich, LYUBOSHCHINSKIY, Dmitriy Markovich; POZIN, Yevgeniy Zalomanovich; LEVIN, N.F., otvetstvennyy redaktor; KOLOMIYTSEV, A.D., redaktor izdatel'stva; KOROVENKOVA, Z.A., tekhnicheskiy redaktor

[Mechanization of coal loading in mines of the Karaganda Basin] Mekhanizatsiia navalki uglia na shakhtakh Karagandinskogo ugol'nogo basseina. Moskva, Ugletekhizdat, 1956. 171 p. (MLRA 9:9)
(Karaganda Basin--Coal mining machinery)

KVON, S.; LEVIN, N.F., otvetstvennyy redaktor; SHUSHKOVSKAYA, Ye.L., redaktor izdatel'stva; NADEINSKAYA, A.A., tekhnicheskiy redaktor

[Problems in the opening and preparation of mines in the Karaganda Basin] Voprosy vskrytiia i podgotovki shakhtnykh polei Karagandinskogo basseina. Moskva, Ugletekhizdat, 1956. 174 p. (MLRA 9:7)
(Karaganda Basin--Coal mines and mining)

GRISHAYENKO, Mariya Iosifovna; LEVIN, M.F., otvetstvennyy redaktor; OKHRIMENKO, V.A., redaktor izdatel'stva; VASHEVA, T.A., redaktor izdatel'stva; NADEINSKAYA, A.A., tekhnicheskiy redaktor

[The leader of a coal mining crew for varied operations] Brigadir kompleksnoi prokhodcheskoi brigady. Moskva, Ugletekhizdat, 1956. 239 p. (MIRA 10:3)

(Coal mines and mining)

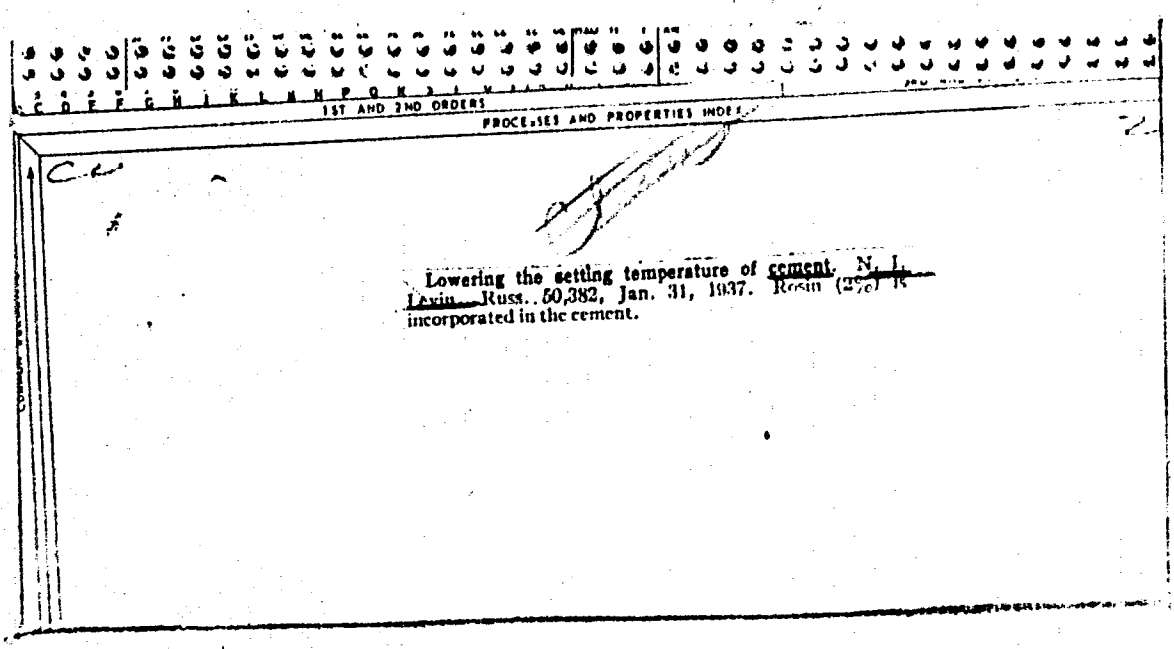
LEVIN, N.I.

[redacted]

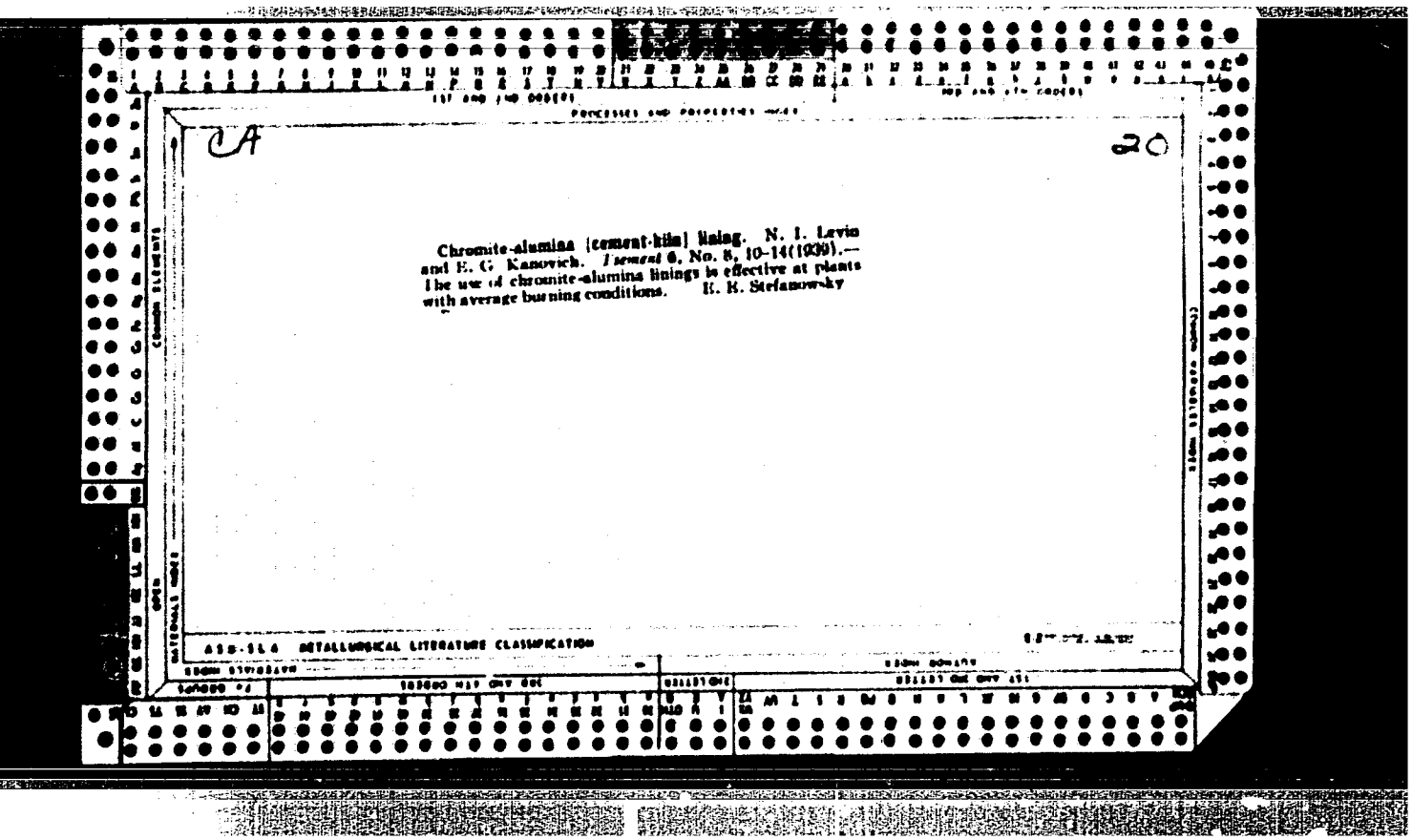
[illegible]

[illegible]

LEVIN N. I.



Lowering the setting temperature of cement. N. I. Levin. Russ. 50,382, Jan. 31, 1937. Resin (2%) is incorporated in the cement.



CA 20

Chromite-alumina [cement-kiln] linings. N. I. Levin and E. G. Kanovich. *Tsement* 6, No. 8, 10–14(1939).—The use of chromite-alumina linings is effective at plants with average burning conditions. E. R. Stefanowsky

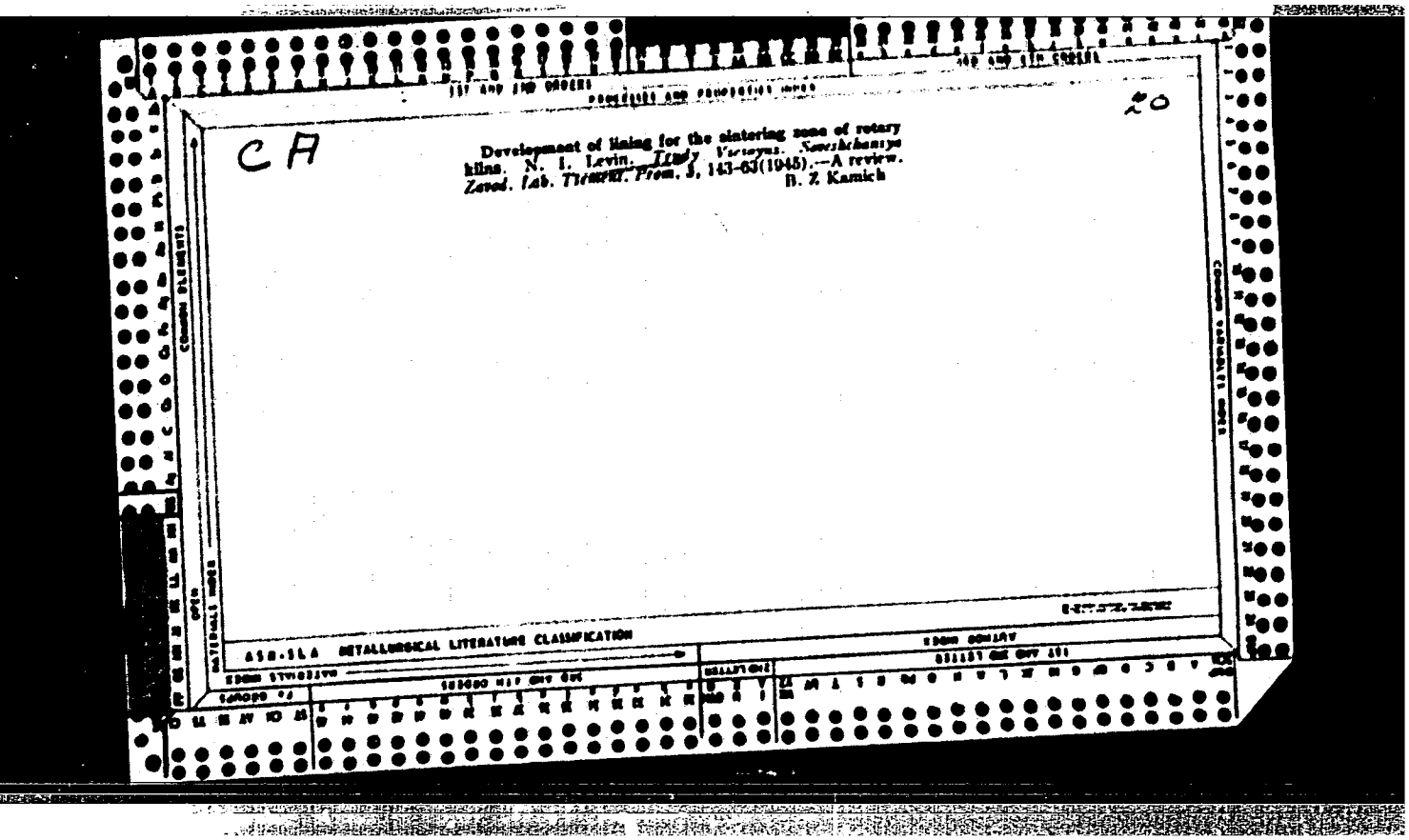
A15-S14 METALLURGICAL LITERATURE CLASSIFICATION

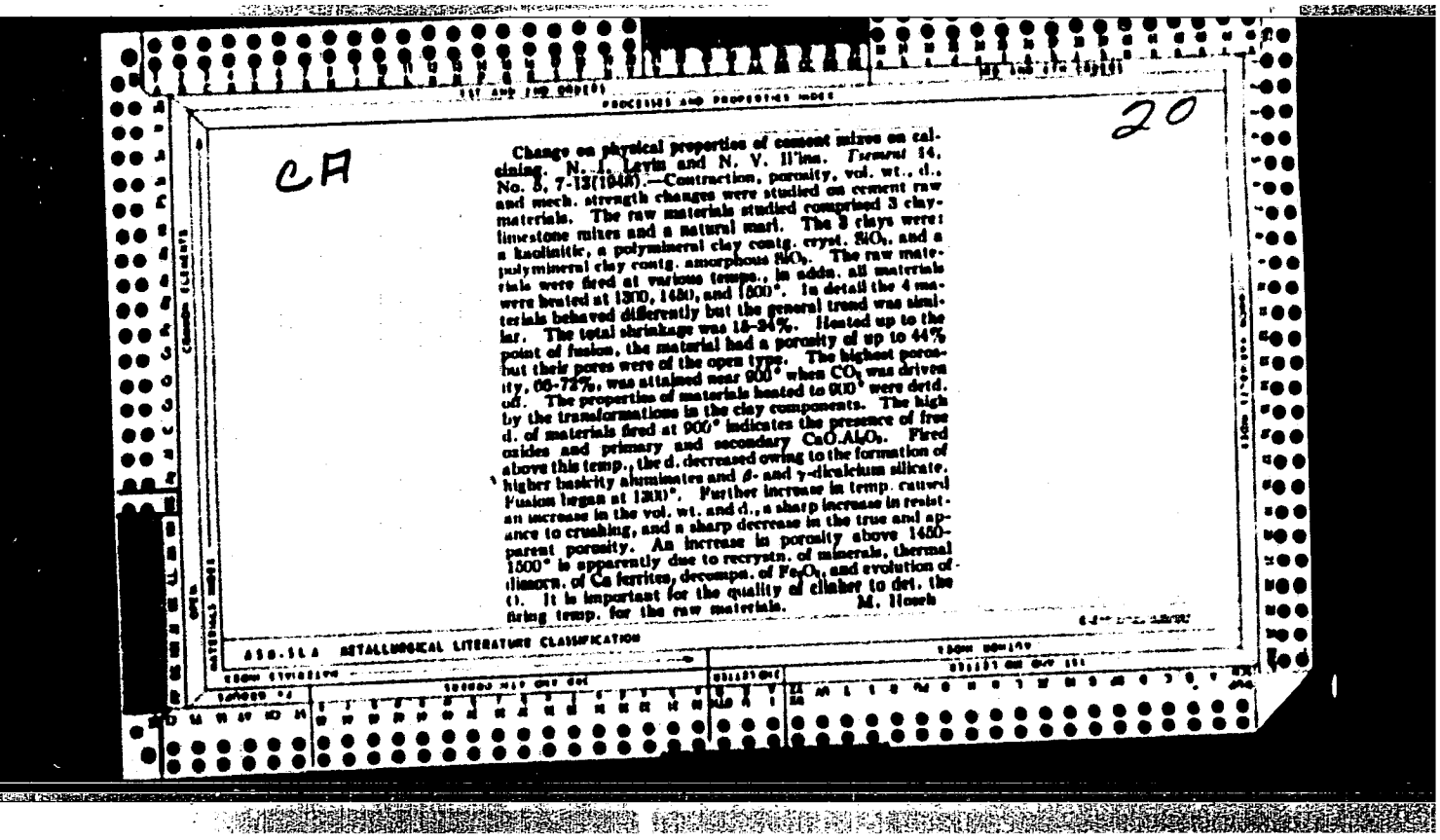
PROCESSES AND PROPERTIES INDEX

Aluminous cement as a binder for fireproof concrete. N. I. Levin. *Gosudarst. Vsesoyuz. Inst. Proektirovaniya Predpriyatii i Nauch.-Issledovatel. Rabote Tsement. Prom.,* "*Gipratsement,*" *Trudy.* No. 5, 48-68(1943).—Aluminous cement is superior in a number of points to other hydraulic binders in production of fireproof concrete; one of these is the stability of the cryst. form on dehydration.

O. M. Kosolapoff

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION





CA

20

Change on physical properties of cement mixes on calcining. N. I. Levin and N. V. Il'ina. *Tsement* 14, No. 3, 7-13(1948).—Contraction, porosity, vol. wt., d., and mech. strength changes were studied on cement raw materials. The raw materials studied comprised 3 clay-limestone mixes and a natural marl. The 3 clays were: a kaolinitic, a polymineral clay contg. cryst. SiO_2, and a polymineral clay contg. amorphous SiO_2. The raw materials were fired at various temps., in addn. all materials were heated at 1300, 1450, and 1600°. In detail the 4 materials behaved differently but the general trend was similar. The total shrinkage was 18-24%. Heated up to the point of fusion, the material had a porosity of up to 44% but their pores were of the open type. The highest porosity, 66-72%, was attained near 900° when CO_2 was driven off. The properties of materials heated to 900° were detd. by the transformations in the clay components. The high d. of materials fired at 900° indicates the presence of free oxides and primary and secondary $CaO.Al_2O_3$. Fired above this temp., the d. decreased owing to the formation of higher basicity aluminates and β- and γ-dicalcium silicate. Fusion began at 1300°. Further increase in temp. caused an increase in the vol. wt. and d., a sharp increase in resistance to crushing, and a sharp decrease in the true and apparent porosity. An increase in porosity above 1450-1500° is apparently due to recrystn. of minerals, thermal dissocn. of Ca ferrites, decompn. of Fe_2O_3, and evolution of CO_2. It is important for the quality of clinker to det. the firing temp. for the raw materials. M. Hosek

A50-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA

17

Resistance of chrome-magnesite linings as affected by the composition of the calcined clinker. N. I. Lavin. *Ogneupory* 17, No 2, 11-12(1951).—Production data were analyzed graphically to det. the relationship between clinker compn. and lining. The latter was high-grade fired chrome-magnesite brick. The amt. of "liquid phase" formed was detd. by the content of $3CaO.Al_2O_3$, $4CaO.Al_2O_3.Fe_2O_3$, and MgO. The clinkers fell into 3 groups: (A) contg. an insufficient amt. of the liquid phase (under 22.5%), (B) contg. a normal amt. (22.5–24.5%), and (C) contg. an excess. In clinkering group A, the formation of a protective layer on the refractory is impeded and the refractory is exposed to corrosive action of S and alk. compds. A decrease in the ratio of $3CaO.Al_2O_3$ to $4CaO.Al_2O_3.Fe_2O_3$ helps very little; a protective lining is formed but it is unstable. In the case of group B, a durable protective layer is formed and the refractory is protected. With group C, the excess liquid phase reacts too intensely with the refractory, shortening its life. Suitable additns. can improve the properties of group A. For group C, the additn. is harmful. M. Hoseh

1952

Levin, N. I.

MTV Rapid hardening of Portland cement for reinforced concrete shapes. N. Levin and R. I. Leodon'skaya. *Tsement*, 21 [3] 15-19 (1955).—Suggested clinker composition is C_3S 55, C_2S 29, C_3A 11, and C_4AF 11%. Grinding to a specific surface of 5000 to 5800 cm.²/gm. will assure rapid-hardening high-strength Portland cement. The addition of active mineral admixtures lowers the strength of concrete. B.Z.K.

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