"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

SOV/143-58-11-1/16

The Influence of the Saturation of Transformers and Synchronous Generators on the Overvoltages Arising on Power Lines With a Forcing of the Excitation During Generator Rotor Hunting Processes

of electrical equipment during intensive forcing of the excitation, which, added to the increased voltage, caused by the hunting of synchronous generator rotors after power failures, may attain magnitudes dangerous for the insulation. The strictly theoretical investigation of this problem is made difficult by the great variety of factors influencing the overvoltage magnitude during forcing in the progress of a generator hunting process, and by the necessity of considering the nonlinear characteristic of generators and transformers. Simulating these processes is not less difficult because of the aforementioned reasons. Consequently, obtaining exact values of the overvoltages during forcing is a very complicated problem. However, an approximated estimation of maximum overvoltage multiples at the insulation will be adequate for the majority of practical cases. Taking this into consideration, the authors consider in this paper a

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SOV/143-58-11-1/16

The Influence of the Saturation of Transformers and Synchronous Generators on the Overvoltages Arising on Power Lines With a Forcing of the Excitation During Generator Rotor Hunting Processes

method for the approximated calculation of the overvoltages during a forcing of the excitation of synchronous machines under consideration of the rotor hunting and the saturation of the steel of generators and transformers. The necessity of considering voltage fluctuations during the hunting of generators, the final voltage increase rate of the exciters during forcing and the saturation of generators and transformers, create considerable difficulties for the mathematical analysis of the process under consideration. Nevertheless, the problem may be solved by introducing several simplifications. For analyzing the transient processes during excitation forcing, it may be assumed that the transient operating conditions, caused by rotor hunting and corresponding at a given moment to a certain value of the angle between the e.m.f. of synchronous machines, are quasi-steady-state operating conditions. The saturation of the trans-

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SOV/143-58-11-1/16

The Influence of the Saturation of Transformers and Synchronous Generators on the Overvoltages Arising on Power Lines With a Forcing of the Excitation During Generator Rotor Hunting Processes

former steel in the quasi-steady-state operating conditions may be considered by introducing the function $I = f(U)$ to the dependences used for the calculation. This function represents approximately the magnetizing curves of the transformers, while the saturation of synchronous generators is shown by changes of the calculated e.m.f. and the synchronous reactances of the latter. The authors then derive the calculation dependences and present the calculation results for actual circuits. The approximated calculation dependences are compiled in 3 tables. Data contained in table 3 show that overvoltages on a power line with four-fold excitation forcing during rotor hunting processes in the most unfavorable case (absence of active losses in the network, excitation of the generators equal to the maximum values, angles between e.m.f. to zero) may attain magnitudes exceeding considerably those permissible for the insulation, if the saturation

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of steel in transformers and generators is not taken into consideration. Accounting the saturation of the steel in transformers and generators (synchronous compensators) leads to a considerable reduction of the rated overvoltage magnitudes. The highest multiple when taking into consideration only the saturation of transformers amounts to 2.23 (interruption of the power transmission in the absence of a synchronous compensator at the power line). Accounting only the generator saturation, the highest overvoltage multiples are still smaller and the maximum rated value is 1.61 (interruption of the transmission in the presence of a synchronous compensator). Combined accounting of the steel saturation in transformers and generators leads to an additional reduction of the calculated multiples, which is less than 6% in the most characteristic case. Consequently, during intensive forcing of the excitation, the overvoltages are limited by the



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steel saturation in generators. This saturation must be taken into consideration when estimating the overvoltage multiples during forcing of the excitation. Data contained in table 3 and additional calculations performed for different parameter ratios of power lines and power plants show that the overvoltage multiple during intensive excitation forcing, determined under consideration of the steel saturation in generators and transformers, hardly depends on the power transmission network or its parameters. The data shown in the last line of table 3 may be considered as being close to the maximum theoretical value. Actually, considering the assumptions made in the calculations, leading to an enlargement of the overvoltage multiples, the latter will be obviously still smaller. Based on the aforementioned explanation, the authors state that overvoltages during forcing of the excitation of generators, working on long-distance power lines, are prac-

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SOV/143-58-11-1/16

The Influence of the Saturation of Transformers and Synchronous Generators on the Overvoltages Arising on Power Lines With a Forcing of the Excitation During Generator Rotor Hunting Processes

tically not dangerous for the insulation and are considerably smaller than the one-minute test voltages of transformers and generators. Considering the relatively short duration of the hunting and the small probability of its occurance, it may be stated that the overvoltages during excitation forcing do not create danger for the insulation of transformer and generators. There are 2 circuit diagrams, 2 graphs, 3 tables and 1 Soviet reference.

ASSOCIATION: Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina (Leningrad Polytechnic Institute imeni M.I. Kalinin) Kafedra tekhniki vysokikh napryazheniy (Chair of High-Voltage Engineering)

SUBMITTED: June 18, 1958

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8(2) SOV/105-59-8-2/28

AUTHORS: Levinshteyn, M. L., Docent, Candidate of Technical Sciences, Kadomskaya, K. P., Candidate of Technical Sciences

TITLE: Requirements Placed Upon Arresters Used as a Protection Against Internal Overvoltages

PERIODICAL: Elektrichestvo, 1959, Nr 8, pp 9 - 14 (USSR)

ABSTRACT: In connection with the conversion of the electrical transmission lines from 400 kv to 500 kv the requirements placed upon arresters used as a protection against internal overvoltages are investigated. A study of internal overvoltages in the transmission line Votkinskaya GES (Votkinskaya Hydroelectric Power Station) - Sverdlovsk lead to the following conclusions. An arrester with given characteristics is capable of interrupting an arc provided that the forced voltage component in the line does not exceed $(1.3-1.4)U_{ph}$. In order to arrive at a reliable overvoltage protection other measures must be taken which go beyond the installation of arresters. The circuit breakers must be installed in such a way as to secure a selective disconnection of the breaker located at

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the buses with the smaller power and similarly a selective closing of the breaker at the buses with the higher power. The automation of the system must secure a reliable delay of the breakers of 1-2 periods. Measures must be taken to arrange for a discharge of the line capacity during the interval of automatic reclosure, and to place electromagnetic voltage transformers close to the line. It appears to be desirable that when the system is operative, all main connections are under load. The circuit breakers of modern transmission lines with 400 and 500 kv must be equipped with ohmic resistances shunting their main contacts. Recommendations are advanced concerning the improvement of the characteristics of the arrester developed in the Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina (All-Union Institute of Electrical Engineering imeni Lenin). There are 9 figures, 1 table, and 2 Soviet references.



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Requirements Placed Upon Arresters Used as a Protection Against Internal Overvoltages

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ASSOCIATION: Leningradskiy politekhnicheskiy institut im. Kalinina (Leningrad Polytechnic Institute imeni Kalinin)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

GOREV, Aleksandr Aleksandrovich [1884-1953]; LEVINSHTEYN, M.L., red.; SHCHERBACHEV, O.V., red.; ZHITNIKOVA, O.S., tekhn.red.

[Selected works concerning the problems on stability of electric power systems] Izbrannye trudy po voprosam ustoichivosti elektricheskikh sistem. Moskva, Gos.energ.izd-vo, 1960. 259 p. (MIRA 14:4)

(Electric power distribution)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

VAZHNOV, Aleksandr Ivanovich; SHCHEDRIN, N.N., retsenzent; LEVINSHTEIN, M.L., red.; SOBOLEVA, Ye.M., tekhn.red.

[Fundamentals of the theory of transient processes in synchronous machines] Osnovy teorii perekhodnykh protsessov sinkhronnoi mashiny. Moskva, Gos.energ.izd-vo, 1960. 312 p. (MIRA 13:12)

(Electric machinery, Synchronous) (Transients (Electricity))

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

AUTHORS: Gruzdev, I. A., Docent, Candidate of Technical Sciences, Levinshteyn, M. L., Docent, Candidate of Technical Sciences

S/105/60/000/03/001/023
B007/B008

TITLE: The Use of Analog Computers for the Investigation of Transients in Electric Systems

PERIODICAL: Elektrichestvo, 1960, Nr 3, pp 1 - 14 (USSR)

ABSTRACT: This is an investigation of mathematical simulation with analog computers. Specific characteristics occurring when solving problems of electric power engineering are also clarified. The basic elements of analog computers are described first. The computing elements necessary for solving linear and nonlinear differential equations as well as the basic circuit schemes are given. Some demands made on analog computers in the solution of electric power engineering problems, are indicated next. This is illustrated on the example of the solution of equations for transients in a synchronous machine with salient poles which operates parallel to a system with infinite output. It is pointed out that the

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transition from one system of equations to another has to take place according to a given timing program for some tasks, while this transition depends on the solutions obtained for other tasks. The one as well as the other is demanded for some tasks. A sufficiently developed program control of the transition from one system of equations to be solved to the other is not yet provided so far in the analog computers now produced in the USSR. Besides, the number of computing elements in most machine types is insufficient for solving practical problems. The analog computers can in fact be applied for the solution of rather complicated tasks of electric power engineering, but they must not be considered as a universal means for the solution of random problems occurring in practice. The most rational field of application for analog computers is that where a variation of the parameters of individual system elements and of the nonlinear characteristics of this system is demanded, but the system itself must not be too complicated. When investigating the



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stability of electric networks, the circuit with 3 stations and 2 to 3 loading points, for example, is the most complicated one that can be investigated on an analog computer. For the solution of various tasks connected with this circuit there is however a possibility of analyzing the excitation control, the control of the primary motors, the influence of the damping windings, the load characteristics, the saturation of the machine and others. This is analogously the case when investigating internal excess voltages. The most rational method for the investigation of a random problem is an extensive utilization of all available means, such as physical simulators, computers, computer boards, the investigation under actually prevailing conditions and others. The possibilities of analog computers are by no means exhausted. The individual elements must be improved and rational methods for the solution of various types of equations must be developed. The equations by A. A. Gorev (Ref 1) are mentioned. There are 11 figures, 1 table, and 29 Soviet references.



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The Use of Analog Computers for the Investigation of Transients in Electric Systems

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ASSOCIATION: Leningradskiy politekhnicheskiy institut im. Kalinina (Leningrad Polytechnic Institute imeni Kalinin)

SUBMITTED: May 27, 1959

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSHTEYN, M.L., dots; SHCHERBACHEV, O.V., dots.

Determination of the limit of static stability of electric power transmission systems connecting large power systems. Izv. vys. ucheb. zav.; energ. 3 no.11:1-11 N '60. (MIRA 13:12)

1. Leningradskiy politekhnicheskiy institut im. M.I.Kalinina.
(Electric power distribution)
(Interconnected electric utility systems)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSHTEYN, M.L., kand.tekhn.nauk, dotsent; SHCHERBACHEV, O.V., kand. tekhn.nauk, dotsent

Efficient recording of fundamental relationships in the theory of alternating currents and synchronous machines. Elektrichestvo no. 11:90-93 N '60. (MIRA 13:12)

1. Leningradskiy politekhnicheskiy institut imeni Kalinina.
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(Electric currents, Alternating)

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LEVINSHTEYN, M.L., AKOPYAN, A.A., KOSTENKO, M.P., LYSKOV, YU. I., ROKOTYAN, S.S., FOTIN, V.P., SHUR, S.S.

"E.H.V. line internal overvoltages and measures for their limiting."

Report to be submitted for the 19th Biennial Session, Intl. Conference on large electric systems (cigre), Paris, France, 16-26 May '62.

AKOPYAN, All-Union Elect. Engineering Inst. im V.I. Lenin, Moscow
KOSTENKO, AS, USSR, Inst. Electromechanics
LEVINSHTEYN, Leningrad Polytechinal Inst. im M.I. Kalinin
LYSKOV, All-Union Scientific Research Planning Inst. Thermoelectric Indust.
ROKOTYAN, Dept. Long Distance Power Transmission, All-Union Inst. Planning Steam-Electric Stations, Substations and Furnaces
FOTIN, All-Union Elect. Engineering Inst. im V.I. Lenin, Moscow
SHUR, Scientific Reasearch Inst. of Direct Current, Leningrad

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

KADOMSKAYA, K.P., kand.tekhn.nauk; LEVINSHTEYN, M.L., kand.tekhn.nauk; CHERTOUSOVA, V. M., insh.; SHAKHAYEVA, O. M., insh.

Higher-order harmonics in electric power transmission lines without cutouts at the higher voltage end. Izv. vys. ucheb. zav.; energ. 5 no.1:15-23 Ja '62. (MIRA 15:2)

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(Electric power distribution)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSHTEYN, M.L.kand.tekhn.nauk, dotsent; SHCHERBACHEV, O.V. kand. tekhn.nauk, dotsent

Methods for calculating the static stability of complex electrical systems using equivalent regulatory effects of stations and loads. Izv. vys.ucheb. zav.; energ. 5 no. 8:11-19 Ag '62. (MIRA 17:7)

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LEVINSHTEYN, M.L.; SHCHERBACHEV, O.V.

Determination of the operating conditions of electrical systems limited according to self-induced rocking using an a.c. network analyzer. Elektrichestvo no.10:16-20 O '62. (MIRA 15:12)

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(Electric networks) (Electric network analyzers)

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KADOMSKAYA, K.P.; LEVINSHTEYN, M.L.; CHERTOUSOVA, V.M.; SHAKHAYEVA, O.M.

Comparison of the applicability of small parameter and harmonic balance techniques in calculating the periodic operating conditions of electric power transmission lines with nonlinear parameters. Izv.vys.ucheb.zav.;energ. 6 no.1:117-118 Ja '63. (MIRA 16:2)

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(Electric power distribution)
(Electric lines—Overhead)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

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KADOMSKAYA, K.P.(Leningrad); LEVINSHTEYN, M.L. (Leningrad); SHTERENBERG, G.P. (Leningrad)

Solution of the equations of a long electric power transmission line using numerical and digital computers. Izv. AN SSSR. Energ. i transp. no.4:508-513 Jl-Ag '63. (MIRA 16:11)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

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MIROLYUBOV, Nikolay Nikolayevich; KOSTENKO, Mikhail Vladimirovich; LEVINSHTEYN, Mikhail L'vovich; TIKHODEYEV, Nikolay Nikolayevich; DOLGIN, A.I., prof., retsenzent; BORISOGLEBSKIY, P.V., dots., retsenzent; PERMOVSKAYA, G.Ye., red.; GOROKHOVA, S.S., tekhn.red.

[Methods for calculating electrostatic fields] Metody rascheta elektrostaticheskikh polei. [By] N.N.Miroliubov i dr. Moskva, Vysshaia shkola, 1963. 414 p. (MIRA 17:3)

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KADOMSKAYA, K.P., kand.tekhn.nauk; LEVINSHTEYN, M.L., dotsent, kand.tekhn.nauk; CHERTOUSOVA, V.M., inzh.

Methods for calculating higher harmonic voltages in systems with two nonlinear elements. Izv. vys. ucheb. zav.; energ. 6 no.10:27-35 O '63. (MIRA 16:12)

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KADOMSKAYA, K.P.; LEVINSHTEYN, M.L.; MIKHAYLOV, Yu.A.; OKOROKOV, V.R.; ORLOV, V.N.; POLOVOY, I.F.; KOSTENKO, M.V., prof. red.

[Internal overvoltages of high-voltage a.c. networks, 1961-1963] Vnutrennie perenapriazheniia v elektricheskikh setiakh vysokogo napriazheniia peremennogo toka, 1961- 1963. Moskva, 1964. 241 p. (MIRA 18:4)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii.
2. Chlen-korrespondent AN SSSR (for Kostenko).

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LEVINSHTEYN, Mikhail L'vovich; MIROLYUBOV, N.N., prof., retsenzent; SHCHERBACHEV, O.V., dots., red.

[Operational calculus and its application to electrical engineering problems] Operatsionnoe ishchislenie i ego prilozheniia k zadacham elektrotekhniki. Moskva, Izd-vo "Energiia," 1964. 465 p. (MIRA 17:5)

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KOSTENKO, M.V. (Leningrad); LEVINSHTEYN, M.L. (Leningrad)

Calculation of overvoltages on the capacitance of an oscillatory stage during the switching of a periodic e.m.f. and zero initial conditions. Izv. AN SSSR. Energ. i transp. no.4:3-10 Jl-Ag '65. (MIRA 18:10)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSHTEYN, M.I.; [illegible]NEV, O.V.

Method for the direct determination of complex amplitudes of small perturbations and its use in the calculation of the limiting conditions of resonant step-up in complex power systems. Trudy LPI no.242:75-84 '65.

Effect of transient processes in the stator circuits of synchronous machines and the distribution of parameters of long lines on the static stability. Trudy LPI no.242:85-93 '65.

(MIRA 18:8)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

AYZENBERG, B.L.; ALEKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; DOMANSKIY, B.I.; DUBINSKIY, L.A.; ZALESSKIY, A.M.; KOSTENKO, M.P.; KOSTENKO, M.V.; LEVINSHTEYN, M.L.; MIKIRTICHEV, A.A.; MIKHAYLOVA, V.I.; NEYMAN, L.R.; RUZIN, Ya.L.; SMIRNOV, V.S.; STEFANOV, K.S.; USOV, S.V.; KHOBERG, V.A.; SHCHERBACHEV, O.V.

Professor M.D.Kamenskii; on his 80th birthday. Elektrichestvo no.7: 92-93 Jl '65. (MIRA 18:7)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

SMIRNOV, V.S.; KOSTENKO, M.P.; NEYMAN, L.R.; KOSTENKO, M.V.; DOMANSKIY, B.I.; ZALESSKIY, A.M.; USOV, S.V.; AYZENBERG, B.L.; DUBINSKIY, L.A.; ALEKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; LEVINSHTEYN, M.L.; MIKIRTICHEV, A.A.; MIKHAYLOVA, V.I.; RUZIN, Ya.L.; STEFANOV, K.S.; KHOBERG, V.A.; SHCHERBACHEV, O.V.

M.D. Kamenskii; on his 80th birthday. Izv. vys. ucheb. zav.; energ. 8 no.7:130-131 Jl '65. (MIRA 18:9)

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GUSEV, Yu.M.; KADOMSKAYA, K.P.; LEVINSHTEYN, M.L.; RODCHENKO, Ye.A.

Mathematical modeling of the characteristics of a discharger used in protection from internal overvoltages. Trudy LPI no.242:150-158 '65. (MIRA 18:8)

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ACC NR: AP6012968 SOURCE CODE: UR/0143/65/000/007/0130/0131

AUTHOR: Smirnov, V. S.; Kostenko, M. P.; Neyman, L. R.; Kostenko, M. V.; Domanskiy, B. I.; Zalesskiy, A. M.; Usov, S. V.; Ayzenberg, B. L.; Dubinskiy, L. A.; Aleksandrov, G. N.; Gribov, A. N.; Gruzdev, I. A.; Levinshteyn, M. L.; Mikirtichev, A. A.; Mikhaylova, V. I.; Ruzin, Ya. L.; Stefanov, K. S.; Khoberg, V. A.; Shcherbachev, O. V.

ORG: none

TITLE: Honoring the 80th birthday of Mikhail Davidovich Kamenskiy

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 7, 1965, 130-131

TOPIC TAGS: electric power engineering, electric engineering personnel, hydroelectric power plant, thermoelectric power plant

ABSTRACT: On 19 April 1965 Prof. Dr. Techn. Sci. Mikhail Davidovich Kamenskiy celebrated his 80th birthday and the 55th anniversary of his active work as a power expert. Mikhail Davidovich is a 1909 graduate of the Petersburg Polytechnic Institute - since his graduation he has been associated with this institue, now renamed Leningrad Polytechnic Institute, as an instructor. He is a major scientist and specialist in electric power grids and systems. He has been a major contributor to the establishment of the Leningrad Power Grid and various large thermal and hydro-

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L 22149-66

ACC NR: AP6012968

electric power stations and an active participant in the design and construction of high- and low-voltage power systems in many cities of the Soviet Union. During the Siege of Leningrad in World War II he was a member of the Municipal Party Defense Committee. Since the war Mikhail Davidovich has been head of the Chair of Electric Power Grids and Systems at the Leningrad Polytechnic Institute and has been working on the methods of calculating the economic regimes of power system operation and on the problems of the present-day development of urban power systems. M.D. Kamenskiy has published more than 80 works, including both original studies as well as textbooks that are popular in the Soviet Union and abroad. He is the chairman of the Section on Power Systems and Grids under the Leningrad Division of the Scientific and Technical Division of the Power Industry and organizer of and participant in many scientific-technical conferences and meetings. His merits as an educator of a new school of Soviet power engineers are equally large. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

Card 2/2 dla

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

ACC NR: AP6019200 (A) SOURCE CODE: UR/0143/66/000/002/0012/0018

AUTHOR: Guaev, Yu. M. (Engineer); Kadomskaya, K. P. (Candidate of technical sciences); Levinshteyn, M. L. (Candidate of technical sciences, Lecturer)

ORG: Leningrad Polytechnical Institute imeni M. I. Kalinin (Leningradskiy politekhnicheskiy institut)

TITLE: Effectiveness of spark connection for reactors designed for limiting internal surges

SOURCE: IVUZ. Energetika, no. 2, 1966, 12-18

TOPIC TAGS: reactor control, electric power transmission, spark gap, electric discharge, voltage stabilization

ABSTRACT: The number of reactors connected to a line under conditions of internal surge limitation is generally greater than the number necessary for compensating line capacity during low power transmission. For this reason, some of the reactors are connected to the line through spark gaps to limit internal surges in long-range electric power transmission. The authors consider the effectiveness of this type of reactor connection from the standpoint of its effect on maximum overvoltage. Maximum overvoltage in switching commutation is a function of the following random quantities: the emf switching phase $\Psi$ and the breakdown voltage of the reactor spark gap $V_{br}$. In plot-

Card 1/2 UDC: 621.316.435

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L 01081-67

ACC NR: AP6019200

ting the distribution functions for the maximum overvoltages it was assumed that the emf switching phase $\Psi$ is distributed according to a uniform density law in the interval from -90° to +90° inclusive. Curves are given for the resultant distribution functions for surges which result from line connection over a wide range of spark gap breakdown voltages. A comparison of the mathematical expectations for maximum surges with pulse switching for conventional and spark connection of reactors shows that reactors connected to the line through spark gaps may be treated as straight connections for practical purposes in power transmissions of higher classes of voltage with relatively low natural frequencies. The operating conditions of dischargers in circuits containing reactors with spark connection are analyzed. The results of the study show that operation of the discharger spark gap has practically no effect on the service life of the discharger even under emergency conditions. The use of commutation dischargers behind the reactor spark gaps requires no special measures for preventing breakdown of the discharger spark gaps during operation of the reactor spark gap. Orig. art. has: 4 figures, 3 tables.

SUB CODE: 18,20/ SUBM DATE: 10Jul65/ ORIG REF: 004

vlr

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

USSR / Microbiology. Microbes, Pathogenic to Man and Animals. Bacteria. Pathogenic Fungi and Actinomyces. F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19587

Author : Levinshteyn, M. V.
Inst : Uzbek Scientific-Research Skin-Venerological Institute
Title : Yeastlike Fungi in the Oral Cavity and Intestinal Tract of the Human Being

Orig Pub : Sb. tr. Uzbekist. n.-i. kozhno-venerol. in-ta, 1957, 6, 85-93

Abstract : The contents of yeast fungi in the oral cavity of 90 men and in the intestinal tract of 209 men were investigated. Candida albicans was isolated principally from the oral cavity; C. krusei prevailed in the intestinal tract, but C. albicans

Card 1/2

[illegible], which were characteristic for Mycoderma. -- M. I. Nakhimovskaya

Card 2/2

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

USSR/Microbiology - General Microbiology F

Abs Jour : Ref Zhur Biol., No 1, 1959, 651

Author : Levinshteyn, M.V.

Inst : Uzbek Scientific Research Institute of Dermovenerology

Title : Growing Gonococci on Synthetic Nutrient Media

Orig Pub : Sb. tr. Uzbekist. n.-i. kozhnovenerol. in-ta, 1957, 6, 445-451

Abstract : First generation gonococci grew well on a vitaminized Deyli medium with ascites fluid at a pH of 7.4 - 7.5. Candida crusei stimulated gonococcal growth.

Card 1/1

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

MATVEYEV, V.N., kand.med.nauk; KHAYMOVSKIY, D.I., kand.med.nauk; LEVINSHTEYN, M.V., kand.biolog.nauk; ABDULLAYEV, A.h., nauchnyy sotrudnik

Treating syphilitic patients with bicillin I. Vest.derm.i ven 33 no.5:59-63 S-O '59. (MIRA 13:2)

1. Iz Uzbekskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (direktor - dotsent V.N. Matveyev).
(SYPHILIS ther.)
(PENICILLIN ther.)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKAS, A. Cand Chem Sci -- (diss) "Potentiometric determination of calcium and magnesium by means of ~~third-class~~ electrodes of the third kind and a bismuth electrode." Vil'nyus, 1959. 26 pp (Vil'nyus State Univ im V. Kapsukas. Chem Faculty), 150 copies (KL, 45-59, 143)



APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKAS, A.L.

Electrodeposition of molybdenum and tungsten from formamide solutions. Elektrokhimiia 1 no.1:115-117 Ja '65. (MIRA 18:5)

1. Vil'nyusskiy gosudarstvennyy universitet im. V. Kapsukasa.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

L 32444-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6017606 (N) SOURCE CODE: UR/0364/66/002/002/0200/0204

AUTHOR: Levinskas, A. L.; Simanavichus, A. Yu.

ORG: Vilnius State University imeni V. Kapsukas (Vil'nyusskiy gosudarstvennyy universitet)

29

B

TITLE: Electrolytic deposition of aluminum from a hydride electrolyte

SOURCE: Elektrokhimiya, v. 2, no. 2, 1966, 200-204

TOPIC TAGS: electrolytic deposition, aluminum plating, aluminum hydride, metal crystallization

ABSTRACT: The authors study aluminum plating in an aluminum chloride-diethyl ether-lithium hydride electrolyte, with particular regard to work conditions in the bath, the effect of reversed and pulsed current, determination of throwing power and an investigation of electrolytic aluminum deposition using polarization curves. The thickness of the aluminum coating is a linear function of time at a current density of 2 a/dm$^2$ for periods of electrolysis up to three hours. In studying electrolysis with current reversal, the time of the anode part of the cycle was considerable when compared to the electrocrystallization time. For this reason there was a sharp falloff in the rate of electrolytic deposition for ratios of anode process time to electrocrystallization time ranging from 0.1 to 1.0. The 0.6-0.7 range is optimum in a

Card 1/2 UDC: 621.357.7

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

KLEYN, V. O., kand. med. nauk; LEVINSKAYA, B. M., (Ussuriysk)

Acute suppurative diseases of the retroperitoneal space of appendicular etiology. Urologiia no.6:26-27 '61. (MIRA 15:4)

(APPENDICITIS) (RETROPERITONEAL SPACE—DISEASES)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

SUBMITTED: 20Jan64 ENCL: 00 SUB CODE: MM, SS

NO REF SOV: 001 OTHER: 003 ATD PRESS: 3187

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, Yu.V. (Moskva); SALIBEKOV, S.Ye. (Moskva); LEVINSKAYA, M.Kh. (Moskva)

Interaction between vanadium, niobium and tantalum diborides with carbon. Poroch.met. 5 no.11:66-69 N '65. (MIRA 18:12)

1. Submitted January 4, 1965.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

L 20666-66 EWP(e)/EWT(m)/ETC(f)/EWG(m)/T/EWP(t) IJP(c) JD/WW/JG/AT WH

ACC NR: AP6001475 (N) SOURCE CODE: UR/0226/65/000/012/0056/0062

AUTHOR: Levinskiy, Yu. V. (Moscow); Salibekov, S. Ye. (Moscow); Levinskaya, M. Kh. (Moscow)

ORG: none

TITLE: Interaction of chromium, molybdenum, and tungsten borides with carbon

SOURCE: Poroshkovaya metallurgiya, no. 12, 1965, 56-62

TOPIC TAGS: chromium alloy, molybdenum alloy, tungsten base alloy, melting point, high temperature effect, lattice parameter, particle interaction, graphite

ABSTRACT: The interaction of chromium, molybdenum, and tungsten borides with carbon was investigated. It was found that the systems $CrB_2$-C, MoB-C, $MoB_2$-C, WB-C, and $W_2B_5$-C are eutectic. The eutectic melting points are: 2150, 2570, 2450, 2540, and 2460K, respectively. The existence of the compound $Mo_2BC$ is confirmed. The compound is stable with respect to carbon up to 2100K, at which temperature the liquid phase is formed. The parameters of the lattices of $CrB_2$, α-WB, and $W_2B_5$ do not change on heating when in contact with graphite. Orig. art. has: 4 figures and 3 tables. [Based on author's abstract] [NT]

SUB CODE: 11, 20/ SUBM DATE: 06Feb65/ ORIG REF: 001/ OTH REF: 004

Card 1/1 OK

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, Yu.V.; SALIBEKOV, S.Ye.; LEVINSKAYA, M.Kh.; STROGONOV, Yu.D.

Investigating the carbidizing of titanium and zirconium nitrides. Fiz. met. i metalloved. 20 no.4:519-523 O '65. (MIRA 18:11)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

ACC NR: AP6030023 (A) SOURCE CODE: UR/0020/66/169/005/1104/1106

AUTHOR: Portnoy, K. I.; Chubarov, V. M.; Romashov, V. M.; Levinskaya, M. Kh.; Salibekov, S. Ye.

ORG: none

TITLE: Phase diagram of the nickel-boron system

SOURCE: AN SSSR. Doklady, v. 169, no. 5, 1966, 1104-1106

TOPIC TAGS: nickel-boron system, nickel boron alloy, alloy phase diagram, alloy phase composition, alloy structure, intermetallic compound

ABSTRACT: A phase diagram of the Ni-B system (Fig. 1) has been plotted on the basis of data obtained by physicochemical analyses of a series Ni-B alloys, containing 0 to 100% B, compacted and sintered from the powders of 99.7% carbonyl nickel and 99.4% boron. In alloys with up to 50 at% B, the existence of $Ni_3B$ (orthorhombic), $Ni_2B$ (tetragonal), $Ni_4B_3$ (monoclinic) and NiB (orthorhombic) compounds was confirmed. In alloys with 50—70 at% B, a new phase containing approximately 92 at% B with

Card 1/2 UDC: 546.3-19'74'27

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L 43829-66

ACC NR: AP6030023

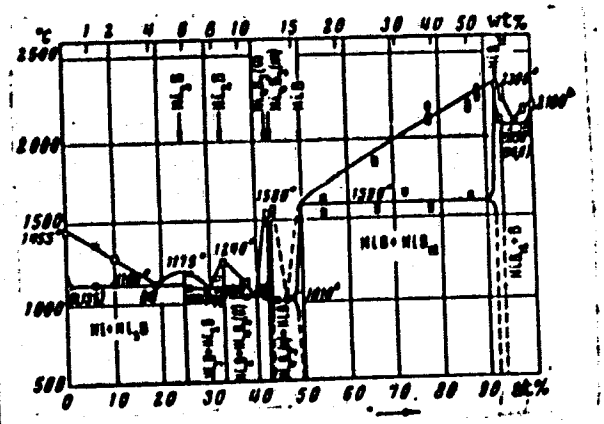


Fig. 1. Phase diagram of the Ni-B system.

a cubic crystal lattice (a = 7.377 ± 0.005 kx) and $NiB_{12}$ stoichiometric composition was found. The microhardness of this phase was found to be 2900 kg/mm$^2$; it has a melting point of 2320C. Orig. art. has: figures and 1 table. [WW]

SUB CODE: 11/ SUBM DATE: 08Dec65/ ORIG REF: 002/ OTH REF: 008

ATD PRESS: 5072

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

L 46669-66 EWT(d)/EWT(m)/EWP(k)/EWP(h)/T/EWP(e)/EWP(v) /EWP(t)/EWP(1)/ETI
ACC NR: AP6009578 (N) SOURCE CODE: UR/0226/65/000/011/0066/0069
IJP(c) AT/WH/WW/JD/JG

AUTHOR: Levinskiy, Yu. V.; Salibekov, S. Ye.; Levinskaya, M. Kh. (Moscow)
(Moscow) (Moscow)

ORG: none

TITLE: Diborides of vanadium, niobium and tantalum and their interaction with carbon

SOURCE: Poroshkovaya metallurgiya, no. 11, 1965, 66-69

TOPIC TAGS: boride, vanadium, niobium, tantalum, carbon, metal powder, lattice parameter, powder metal compaction

ABSTRACT: Modern high-temperature engineering often involves contact interaction between transition-metal borides and graphite. This may be exemplified by boride-graphite thermocouples, high temperature furnaces, and the processes of boride production. Hence, the investigation of the interaction between borides (particularly diborides) and graphite is of major practical interest. Accordingly, the authors investigated the interaction between carbon and the diborides of vanadium, niobium and tantalum. The diborides were prepared from powders of the corresponding metals (particle size 5-10 μ). Radiographic analysis revealed that only two phases: carbon and the corresponding diboride, exist in the systems $VB_2$-C,

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L 46669-66

ACC NR: AP6009578

$NbB_2$-C and $TaB_2$-C. Hence, all the investigated binary systems are pseudobinary, which is in good agreement with the published literature; they all also are eutectic, as revealed by microstructural examination. The lattice parameter of $NbB_2$ and $TaB_2$, when these are heated in contact with graphite or are present in a melt with carbon, differs somewhat from the lattice parameter of the original diborides. This may be attributed to dissolution of carbon in the borides as well as to the displacement of the boride composition to a region with greater saturation by boron. On the basis of these findings it was possible to plot hypothetical constitution diagrams of the pseudobinary systems $VB_2$-C, $NbB_2$-C and $TaB_2$-C, presented in Fig. 1. It is further established that the pressing of the powders of these

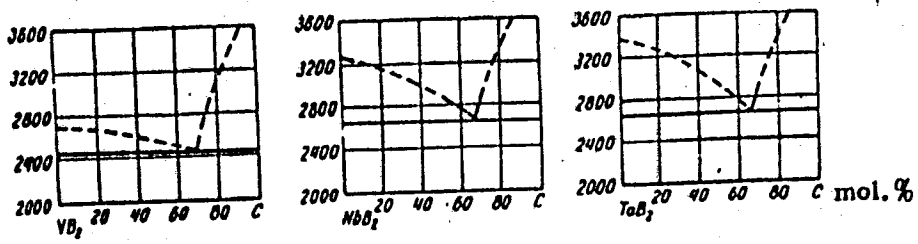


Fig. 1. Hypothetical constitution diagrams of the systems $VB_2$-C, $NbB_2$-C and $TaB_2$-C

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L 46669-66

ACC NR: AP6009578

diborides in graphite molds must be carried out at temperatures not exceeding 2500-2600°K. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11,20,13/ SUBM DATE: 04Jan65/ ORIG REF: 005/ OTH REF: 002

Card 3/3 hs

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKAYA, Mariya Samoylovna; MARKOV, Ivan Petrovich; ZHELEZNOVA, L.M., red.; GOLICHENKOVA, A.A., tekhn. red.

[First All-Russian Congress of Trade Unions] Pervyi Vserossiiskii s"ezd profsoiuzov. [Moskva] Izd-vo VTsSPS Profizdat, 1958. 67 p. (Trade unions--Congresses) (MIRA 11:7)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

SIMANOVICHUS, L.E. [Simanovicius, L.]; LEVINSKENE, A.M. [Levinskiene, A.]; KARPAVICHUS, A.P. [Karpavicius, A.]

Electrodeposition of aluminum from formamide solutions. Elektrokhimiia 2 no.1:87-88 Ja '66. (MIRA 19:1)

1. Vil'nyusskiy gosudarstvennyy universitet imeni V. Kapsukasa, Litovskoy SSR. Submitted November 5, 1964.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVIN'SKI, Petr [Lewinski, Piotr], inzh. (Varshava)

Development of railroad transportation in the Polish People's Republic. Zhel. dor. transp. 46 no.9:81-88 S '64.

1. Ministr putey soobshcheniya Pol'skoy Narodnoy Respubliki.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

BEDER, B.A.; BABAYEV, K.L., otv.red.; LEVINSKIY, B.D., red.vypuska; TELISHEVSKAYA, S.M., tekhn.red.

[Artesian waters in southwestern Uzbekistan] Artezianskie vody IUgo-Zapadnogo Uzbekistana. Tashkent, Sredneaziatskii nauchno-issledovatel'skii institut geologii i mineral'nogo syr'ia, 1961. 46 p. (Tashkent, Sredneaziatskii nauchno-issledovatel'skii institut geologii i mineral'nogo syr'ia. Trudy, no.2). (MIRA 16:9)
(Uzbekistan--Water, Underground)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, B.V.

Flotation of baryte-containing ores using the "ORS" reagent. Tsv♦t. met. 36 no.11:80-81 N '63. (MIRA 17:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

PLAKSIN, I.N.; CHIKIN, Yu.M.inzh.; LEVINSKIY, B.V., inzh.

Depressant action of humate ions on the flotation of magnetite by means of cation collectors. Izv. vys. ucheb. zav.; gor. zhur. no.8:152-157 '64 (MIRA 18:1)

1. Chlen-korrespondent AN SSSR, Institut gornogo dela imeni A.A. Skochinskogo (for Plaksin). 2. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy institut redkikh metallov (for Chikin, Levinskiy). Rekomendovana otdelom obogashcheniya poleznykh iskopayemykh Instituta gornogo dela imeni A.A. Skochinskogo.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, D.K., mekhanik-nastavnik

Design of river scows for viscous mud. Rech.transp. 16 no.9:17-19 S '57. (MIRA 10:12)

(Scows) (Dredging)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, G.

Motion pictures on safety engineering. Bezop.truda v prom. 7 no.2: 39 F '63. (MIRA 16:2)

1. Glavnyy tekhnicheskiy inspektor Azerbaydzhanskogo soveta professional'nykh soyuzov.
(Motion pictures in petroleum engineering)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

DAVYDOV, Ivan Melkumovich; LEVINSKIY, Grigoriy Isakovich; MUSAYEVA, E., red.

[Public participation in trade-union work on industrial safety] Obshchestvennye nachala v rabote profsoiuzov po okhrane truda. Baku, Azerneshr, 1965. 79 p. (MIRA 18:10)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

VISHNEVKIN, D.B.; GENIN, A.M.; LEVINSKIY, G.I.; PERETS, S.A., red.; BAGIROVA, S., tekhn. red.

[Accident prevention in the operation of construction equipment] Tekhnika bezopasnosti pri rabote na stroitel'nykh mashinakh. Baku, Azerneshr, 1962. 145 p. (MIRA 16:4)

(Construction equipment--Safety measures)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, I.A.; GERASIMOV, N.G.

Using warm water in debarking drums. Bum.prom.31 no.3:24 Mr '56. (MLRA 9:7)

1.Glavnyy energetik Priozerskogo tsellyuloznogo zavoda (for Levinskiy).
2.Starshiy kochegar teplovoy elektricheskoy stantsii (for Gerasimov).
(Papermaking machinery)(Bark peeling)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, I.A.

Adjustment of steam boilers after repair. Bum. prom. 36 no.8:22-23 Ag '61. (MIRA 14:8)

1. Glavnyy energetik Priozerskogo tsellyuloznogo zavoda.
(Boilers--Maintenance and repair)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610019-4

LEVINSKIY, I.A., inzh.

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