"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

KRITSKIY, S.N., doktor tekhn.nauk; LESKOV, G.A., inzh.

Plotting calculated flood hydrographs. Trudy Gidroproekta no.4:48-54 '60. (MIRA 15:2)

(Ob' River--Hydrography)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.D.

12

Luminescence analysis of food products. Technique and general methods. G. D. Leskov. *Voprosy Pitaniya* 9, No. 3, 50-5(1940).—Use of the quartz lamp in food analysis is reviewed, with some attention to the influence of temp., light and other factors. 21 references.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.D.

CA

12

Control of fish quality by fluorescence. G. D. Leskov. *Gigiena i Sanit.* 11, No. 12, 30-5(1946).—Fluorescence of fish under ultraviolet can be used as a basis for quality control. Fresh fish shows deep-violet fluorescence, with occasional spots of white, blue, or red; occasionally the entire specimen glows with white-blue or deep-green color. The gills of fresh fish show deep-violet color; in spoiled fish this darkens to an indefinite color, which may pass through a red stage. The meat shows greenish blue fluorescence in fresh fish, turning bluer with spoilage. Definite sign of spoilage is white or blue-white fluorescence in sites of skin punctures. Blood of fresh fish does not fluoresce, that of spoiled fish shows red color. The appearance of white-blue spots in the meat is a definite sign of spoilage. Frozen fish often shows red fluorescence of the blood long before other signs of spoilage. Boiling or salting of spoiled fish does not destroy the typical blood fluorescence. G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LYESKOV, G. D.

Luminescent microscopy. Gig. sanit., Moskva no.7:20 July 1951. (CLML 21:1)

1. Of the All-Union Institute of Nutrition and of the Department of Nutritional Hygiene, Irkutsk Medical Institute.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

[illegible], [illegible]

Flour

Luminescent control of freshness of flour. Gig. i san. no. [illegible], [illegible].

Monthly List of Russian Accessions, Library of Congress, [illegible] [illegible].

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G. I.

USSR/Engineering - Welding, Equipment Sep 51

"On Conditions for Passage of the Exterior Characteristics of Welding Transformers Through a Given Point," G. I. Leskov, Engr, Bezhitsa Inst Transport Mach Bldg

"Avtogen Delo" No 9, pp 14, 15

Attempts to analytically establish dependence of variation in inductance of welding circuit on changes in idle voltage under conditions when all exterior characteristics are going through given point. This relationship may facilitate design of automatic regulators of welding circuit inductance in respect to voltage variation in line feeding welding transformer. 202T36

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

USSR/Engineering - Welding, Processes May 52

"Instrument for Measuring the Amount of Electricity and Some Results on Determination of the Melting Coefficient," G. D. Shevchenko, G. I. Leskov, Engineers Bezhitsa Inst of Transport Mach Bldg

"Avtogen Delo" No 5, pp 1-4

Describes instrument designed by G. I. Leskov for detn of melting rate of electrodes in manual welding. Instrument, named "integrator of current and voltage," being based on integrating property

217T36

of capacitor and used jointly with automatic timer, permitted establishing new regularity in changes of melting coeff in respect to welding current.

217T36

LESKOV, G. I.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G. I. (Eng)

Welding

Quicker method of determining the qualification of welders. Avtog. delo 23 No. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LUSKOV, S. I.

Dissertation: "Investigation of the Characteristics of Submerged Arc Welding." Cand Tech Sci, Moscow Order of Labor Red Banner Higher Technical School imeni Bauman, 31 May 54. Vechernyaya Moskva, Moscow, 21 May 54.

SO: SM 284, 26 Nov 1954

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.I.

Potential distribution in open arcs and arcs under flux. Avtom. svar. 7 no.1:70-77 Ja-F '54. (MLRA 7:7)

1. Beshitskiy institut transportnogo mashinostroyeniya.
(Electric welding)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

AID P - 4829

Subject : USSR/Engineering

Card 1/1 Pub. 11 - 2/13

Author : Leskov, G. I.

Title : Experimental research of certain factors which determine stability of welding arc with fusing agent.

Periodical : Avtom. svar., 3, 17-25, Mr 1956

Abstract : The actuation of an a-c welding arc with fusing agent in the current-interruption periods was observed by the author, who describes his experiments and the results obtained. He finds that in the secondary ignition of the arc the principal role belongs to the liquid fusing film connecting the electrode and the specimen. Seven oscillograms and 1 drawing. Eight Russian references (1948-1954).

Institution : Bezhitsa Institute of Transportation Machine-Building

Submitted : 27 Ag 1955

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.I.

Category : USSR/Atomic and Molecular Physics - Liquids D-8

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 938

Author : Leskov, G.I., Shevchenko, G.D.
Title : Electric Vibration Viscosimeter.

Orig Pub : Zavod. laboratoriya, 1956, 22, No 4, 492-496

Abstract : Description of the construction of a vibration viscosimeter, intended to measure the viscosity of metallurgical and welding slags (1 -- 20 poise). An end piece in the form of a plate or a thin wall cylinder is placed in the investigated medium and is mechanically coupled with a vibrator (iron rod). The vibrator is in the field of a permanent magnet and is excited by two windings, fed from the a-c line through a ferroresonant voltage stabilizer. The natural frequency of the system is chosen to equal to line frequency. The vibrator windings are connected in opposition to the winding of a differential transformer. The secondary winding of the latter is connected to a recording millivoltmeter. If the vibrator is at standstill the system is balanced, but during vibration the gaps between the vibrator rod and the permanent magnet change periodically and the corresponding change in the inductance destroys the equilibrium in the circuit and the millivoltmeter records a current depending

Card : 1/2

Beghitsko Inst. Transport Machine Construction.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

Category : USSR/Atomic and Molecular Physics - Liquids D-8

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 938

on the amplitude of the vibrator oscillations. The latter depends uniquely on the viscosity of the liquid, provided the supply voltage is kept constant. The instrument is used for relative measurements and is first calibrated with liquids having viscosities (at different voltages).

Card : 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.I.

125-58-5-9/13

AUTHORS: Leskov, G.I., and Pogodin-Alekseyev, G.I.

TITLE: The Thermic Theory of the Electric Arc (Termicheskaya teoriya elektricheskoy dugi)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 5 (62), pp 72-82 (USSR)

ABSTRACT: This is a theoretic discussion of the physical phenomena in the separate sections of the arc between electrodes - the cathode zone, the anode zone, and the arc proper. The theories suggested thus far (by Saga, Khrenov, Rabkin, and others) are discussed. The authors present their own explanations of the phenomena in the anode zone of which little is known. There are 3 figures and 13 references, 11 of which are Soviet and 2 German.

ASSOCIATION: MVTU imeni Bauman

SUBMITTED: August 25, 1957

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

66382

~~25(1)~~ 18.7200 SOV/125-59-12-5/18

AUTHORS: Leskov, G. I. and Zaruba, I. I.

TITLE: Ways of Increasing the Stability of Highly-Effective Welding Arcs

PERIODICAL: Avtomaticheskaya svarka, 1959, Nr 12, pp 34-42 (USSR)

ABSTRACT: Highly-effective welding arcs, which ensure a high fusion coefficient of the electrode, are not stable enough. The author examines the problems connected with this fact and the possibilities of increasing the stability of the arc. After a comprehensive analysis of all the necessary data, he comes to the following conclusion. The repeated ignition of the arc is possible if the plasma temperature has not dropped below the threshold value, which increases with the increase in the effective gas ionization potential. The greater this potential - the greater must be the speed of the voltage rise on the electrodes. Small, strictly dosed out quantities of easily ionizing additives, introduced into the arc, can ensure its stable burning without lowering the fusion coefficient of the

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

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Ways of Increasing the Stability of Highly-Effective Welding Arcs

electrode. As the arc gas containing the mentioned additives cools down, the effective ionization potential decreases and, owing to this, better conditions are created for the ignition of the arc when the polarity of the electrodes is changed. There are 1 diagram, 2 graphs and 11 Soviet references.

ASSOCIATIONS: Bryanskiy mashinostroitel'nyy institut (Bryansk Machine Building Institute) (G.I. Leskov); Ordena trudovogo krasnogo znameni institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Order of the Red Banner of Labor Institute of Electrical Welding Imeni Ye. O. Paton of the AS UkrSSR) (I.I. Zaruba).

SUBMITTED: July 14, 1959.

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

29046
S/125/61/000/010/003/014
D040/D112

26.2311

AUTHOR: Leskov, G.I.

TITLE: On the role of thermionic emission and thermal ionization in stabilizing an arc in a CO_2 stream

PERIODICAL: Avtomaticheskaya svarka, 14 no. 10, 1961, 20-29

TEXT: Research was carried out into the magnitude and time of existence of thermionic emission from different cathode materials and the time of deionization of the vapors of easily-ionizing substances in the electrode gap. The role of thermionic emission and thermal ionization of interelectrode gas in the arc excitation process at the start of every half-cycle of alternating current must be clarified in order to increase the stability of the welding arc. Reference is made to publications that illustrate different existing opinions on this matter; it is mostly assumed that the thermoelectronic emission from the cathode determines the re-excitation of the arc. The experimental arrangement (Fig. 1) used, included a welding nozzle from a ТСГ-2 (TSG-2) welding head and ЭПК (EPK) electro-pneumatic valve, an air cylinder (П), a switch (Р) in the arc current circuit, and an oscillograph.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

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D040/D112

On the role of thermionic...

The arc was extinguished by compressed air, after which the conductance in the arc gap was probed with current passed through a 125-ohm resistor and recorded. The oscillograms show that the welding current of 120-220 amps was interrupted for periods of $1 \div 1.5 \cdot 10^{-3}$ sec and decreased at a rate of $\frac{dI}{dt}$ = 120,000 amp/sec; conductance did not disappear immediately after interruptions of the arc. The activating effect of potassium was tested with the use of a K_2CO_3 solution applied to the electrodes or introduced into the gap on a strip of impregnated fabric. The following conclusions were drawn: (1) a prolonged thermionic emission of about 0.1-0.2 amps, sufficient for re-exciting the arc, exists in the gap after interruptions of arcs having tungsten, graphite and titanium cathodes; (2) the thermionic emission from steel cathodes is not sufficient for restoring the arc discharge after the zero point; re-excitation of a nonactivated arc having a steel cathode at a no-load voltage of 50 v is only possible after interruptions not exceeding 0.0006 sec, during which time the residual ionization of the iron vapors is maintained; (3) when $1 \div 1.5\%$ (of the weight of cathode wire) of potassium is

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

29046
S/125/61/000/010/003/014
D040/D112

On the role of thermionic...

introduced into the arc, the conductivity in the gap is maintained for 0.03÷0.05 sec due to the continued ionization of the vapors by the heat energy of the electrodes; the arc is thus re-excited after interruptions of up to 0.03÷0.04 sec; this explains the stabilizing effect of easily-ionizing vapors; (4) a gas stream directed along the axis of the arc column abruptly reduces the period of existence of the thermionic emission from the cathodes and the time of residual ionization of the gas between the electrodes; the higher the velocity of the gas stream, the greater its deionizing effect; (5) introduction of 1÷1.5% K into the arc between steel electrodes ensures stable arc excitation at the start of every half-cycle of alternating current, when the speed of the CO_2 stream does not exceed 3 m/sec and the no-load voltage is 60 V. There are 9 figures, 1 table and 8 references: 7 Soviet and 1 non-Soviet bloc. The reference to the English-language publication reads as follows: A. Lesnewich, Electrode Activation for Inert-Gas Shielded Metal-Arc Welding, "Welding Journal", no. 12, 1955.

Card 3/5

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

29046
S/125/61/000/010/003/014
D040/D112

On the role of thermionic...

ASSOCIATION: Bryanskiy institut transportnogo mashinostroyeniya (Bryansk Transportation Machinery Institute)

SUBMITTED: March 20, 1961

Card 4/4

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.I.

Investigating processes in the arc and the feed sources during passage of the current through the zero point. Avtom. svar. 16 no.2:43-41 F '63. (MIRA 16:4)

1. Bryanskiy institut transportnogo mashinostroyeniya.
(Electric arc)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.I.

Approximate equations for calculating the characteristics of certain welding arcs. Avtom.svar. 16 no.5:62-68 My '63. (MIRA 16:11)

1. Bryanskiy institut transportnogo mashinostroyeniya.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, G.I.

Comparing the dynamic properties of welding transformers. Avtom. svar. 17 no.1:43-47 Ja '64. (MIRA 17:3)

1. Bryanskiy institut transportnogo mashinostroyeniya.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

ACC NR: AP5021962 EWA(c) IJP(c) JD/RM/AT UR/0021/65/000/008/1050/1052

AUTHOR: Lyeskov, H. I. (Leskov, G. I.); Khryenov, K. K. (Khrenov, K. K.)(Academician AN UkrRSR)

TITLE: Processes occurring around a "cold" arc-discharge cathode

SOURCE: AN UkrRSR, Dopovidi, no. 8, 1965, 1050-1052

TOPIC TAGS: arc discharge, cold cathode, field emission, stimulated emission

ABSTRACT: Processes in an arc discharge, particularly on "cold" electrodes, the material of which boils at temperatures insufficient for appreciable thermionic emission, are considered from a new point of view. The existing theories of the electron emission of cold cathodes are criticized for failing to explain some observed phenomena. The positive ion, on approaching the cathode to within 10^{-7} cm, produces near the cathode surface a microfield which destroys the potential barrier, permitting one of the electrons to tunnel its way to the ion. The excited atom produced thereby continues its inertial motion to the cathode. Because of the high energy density of the cathode spot region almost all the atoms radiate photons by stimulated emission. It is pointed out that the cathode spot is a source of coherent radiation of several frequencies. An approximate consideration of the energy balance indicates that about half of the energy supplied to the cathode is used up in melting and evaporation of the cathode material, while the other half covers all the other losses in the cathode region.

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L 4566-66

ACC NR: AP5021962

This rough calculation is in agreement with experimental data for arc welding with a steel electrode. Orig. art. has: 4 formulas.

ASSOCIATION: Instytut elekrozvaryuvannya AN URSR [institut elektrosvarki AN UkrSSR] (Electric Welding Institute, AN UkrSSR)

SUBMITTED: 12Feb65 ENCL: 00 SUB CODE: EM

NR REF SOV: 001 OTHER: 004

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

L 3461-66 EWT(1)/EWT(m)/ETC/EPF(n)-2/EWG(m)/EWP(v)/EPA(w)-2/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) LJP(c)

ACCESSION NR: AP5017206 JD/HM/AT UR/0020/65/162/006/1271/1272

AUTHORS: Leskov, G. I.; Khrenov, K. K.

TITLE: Processes occurring at 'cold' cathodes of an arc discharge

SOURCE: AN SSSR. Doklady, v. 162, no. 6, 1965, 1271-1272

TOPIC TAGS: electric arc, arc property, cold cathode

ABSTRACT: After mentioning briefly earlier attempts to explain the causes of electron emission from cold cathodes, the material of which boils at temperatures which are insufficient for appreciable thermionic emission (mercury, aluminum, copper, iron, and others), the authors propose to apply to the cathode region of the arc Einstein's theory of induced radiation of atoms, and show that the results are in better agreement with experiment. It had been previously assumed that the excited atoms which move in the arc towards the cathode were incapable of emitting photons. It is shown, however, that the current densities prevailing near the cathodes are such that induced radiation is possible, and this induced radiation is absorbed by the neutral gas,

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L 3461-66

ACCESSION NR: AP5017206

4

causing the latter to become excited and ionized. This in turn produces a new generation of ions and electrons, which carry the current into the arc column. The energy balance of this process is analyzed and it is shown that the induced radiation and formation of arcs at cold cathodes becomes feasible once a certain initial ion current is produced. For example, the minimum current to produce an arc from a steel cathode is 4 amperes. Orig. art. has: 5 formulas

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona Akademii nauk UkrSSR (Institute of Electric Welding, Academy of Sciences UkrSSR)

44,55

SUBMITTED: 22Jan65 ENCL: 00 SUB CODE: GP, EE

NR REF SOV: 002 OTHER: 003

BVK

Card 2/2

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

L 40313-66 [illegible]

ACC NR: AP6005334 SOURCE CODE: UR/0413/66/000/001/0072/0072

INVENTOR: Leskov, G. I.

ORG: none

TITLE: Device for stabilizing an a-c welding arc. Class 21, No. 177573

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 72

TOPIC TAGS: arc welding ~~arc~~, ~~welding arc stabilization~~, welding equipment, ~~ac welding~~

ABSTRACT: An Author Certificate has been issued describing a device for stabilizing an a-c welding arc; it contains a power transformer, capacitors, and a unit for controlling the capacitor discharge for the arc gap. For better synchronization of capacitor-produced pulses with arc voltage, the above control unit is supplemented with a differentiating R-C circuit connected in parallel to the arc gap (see Fig. 1). Orig. art. has: 1 figure.

Card 1/2 UDC: 621.791.75—503.51

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

L 4 319-66

ACC NR: AP6005334

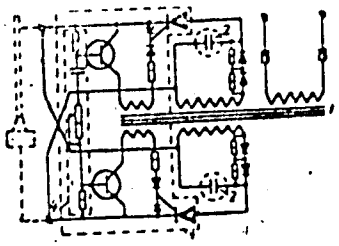

Fig. 1 Device for stabilizing an a-c welding arc. 1— transformer; 2— capacitor; 3—control unit; 4— differentiating R-C circuit

[LD]

SUB CODE: 13/ SUBM DATE: 28Apr63

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

51-4-2-6/28

AUTHOR: Leskov, L. V.

TITLE: On the Method of Quantitative Gas Analysis Using Electron-Vibrational Spectra of Diatomic Molecules. (O metode kolichestvennogo analiza gaza po elektronnokolebatel'nym spektram dvukhatomnykh molekul.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Nr.2, pp.168-179. (USSR).

ABSTRACT: This paper is entirely theoretical. For atomic spectra the relationship between the intensity of a given spectral line, temperature and concentration of radiating particles is well known. For electron-vibrational spectra of diatomic molecules a similar relationship has not yet been derived. The present paper attempts to find this relationship. The following assumptions are made: (1) the distribution of molecules in electron states is of Boltzmann type with an electron temperature T_e; (2) the distribution of molecules in vibrational levels is also given by the Boltzmann formula with a vibrational temperature T_v;

Card 1/2 (3) temperatures T_e and T_v are constant in the

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On the Method of Quantitative [illegible] Analysis [illegible] Vibrational Spectra of Diatomic Molecules.

region considered; (4) re-[illegible] The relationship is obtained [illegible] which it holds are discussed. [illegible] applications of this relation [illegible] Bates' tables and "simplified" Morse [illegible] relative probabilities are calculated [illegible] of the Angstrom and Herzberg system of CO (tables 1, 2), the green system of AlO (table 3) and the second infrared system of CaO (table 4). The author thanks Professor V.K. Prokof'ev for [illegible] the problem and his advice. There are 4 tables, 29 references of which 2 are Soviet, 14 [illegible] German, 1 French and 3 Dutch.

SUBMITTED: April 25, 1957

1. Gases-Quantitative analysis-Theory 2. Diatomic molecules-Electron-Vibrational spectra-Theory 3. Electrons-Motion-Theory

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, L.V.; VASIL'YEVA, L.P.

Molecular band spectrum used for temperature measurements. Izv. AN S.S.S.R. Ser. fiz. 22, no. 6:696-701 Je '58. (MIRA 11:7)
(Spectrum, Molecular)
(Thermometry)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

53-65-1-1/1c

AUTHORS: Kolesnikov, V. N., Leskov, L. V.

TITLE: Optical Transition Probabilities for Atoms and Diatomic Molecules (Veroyatnosti opticheskikh perekhodov dlya atomov i dvukhatomnykh molekul)

PERIODICAL: Uspekhi fizicheskikh nauk, 1958, Vol. 65, Nr 1, pp. 3 - 38 (USSR)

ABSTRACT: The purpose of the present paper was to contribute to the investigation of the gaseous state, this contribution covering, describing and discussing parts of these problems as thoroughly as possible. Thus, the authors gave a comprehensive survey of the range of problems concerning transition probabilities, endeavoring to take into consideration every publication published in all states since 1932, dealing with this field. After a short introduction the optical transition probabilities for atoms are first discussed, viz. the theoretical works starting from the fundamental publications by Kondon and Shortli (Ref 1), Hartree (Khartri) (Ref 2), Bethe (Bete) and Salpeter (Ref 12), Fook (Fok') (Ref 18) further

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53 65-1-1/10

Optical Transition Probabilities for Atoms and Diatomic Molecules

(Refs 13 - 17), as well as the experimental ones (Rozhdestvenskiy, Ref 47; Kvater, Refs 49, 50; Bersuker, Ref 51 and others). Further the authors discuss the transition probabilities for electrons in diatomic molecules, again a survey being given first of the theoretical and later on the experimental publications in this field. The most valuable part of this paper consists of four tables extending over 14 pages and containing results from about 300 different publications, being well arranged alphabetically according to elements. All tables contain in a separate column the number of the reference from which the respective information is taken. Table 1 contains data on the configuration and the transitions, respectively for the following elements: nitrogen (N I - N V), aluminum (Al I - VIII), argon (II - XIV), barium I and II beryllium (I - IV), boron (I - V), vanadium II and VIII hydrogen, helium I and II, europium II, iron (I - XV), cadmium I, potassium (I - VI), calcium (I - XV), oxygen (I - VI), silicon (I - VIII), krypton III, xenon III lithium (I - III), magnesium (I - X), manganese I, V, X, copper I sodium (I - VI), neon (I - X), nickel (I - XVI), mercury I, rubidium I, sulfur (I - III), scandium (I - VII), strontium I, and II thallium

Card 2/3

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53-65-1-1/10

Optical Transition Probabilities for Atoms and Diatomic Molecules

I, titanium II and VII, carbon (I - VI), phosphorus (I - III), fluorine (II - V), chlorine (II - IV), chromium I, IV, IX, cesium I and zinc I. Table II contains the numbers of the investigated lines for approximately the same elements, for the valences I and II only, however, the respective wavelengths (in Å), as well as the investigation methods. Tables III and IV contain data on the electron transitions for diverse diatomic molecules. There are 4 tables and 370 references, 83 of which are Soviet.

1. Perturbation theory--Mathematical analysis

Card 3/3

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87544

S/053/60/072/004/004/005
B029/B056

11.6300

AUTHORS: Leskov, L. V., Savin, F. A.

TITLE: Relaxation of Non-equilibrium Gas Systems

PERIODICAL: Uspekhi fizicheskikh nauk, 1960, Vol. 72, No. 4, pp. 741-764

TEXT: This is a review of papers on this subject, the results obtained by various research scientists are compared and the most reliable values of the constants are given. In this, the authors confine themselves to problems of equilibrium adjustment with respect to the translational, rotational, and oscillational degrees of freedom, and also with respect to dissociation and ionization. Only the most important molecules are taken into account. The first part of this article deals with the potential energy of colliding particles. In inelastic collisions (L. Landau and E. Teller, Ref. 27), usually a function for the exponential repulsion: $V_{exp}(r) = Ae^{-\alpha r}$ is chosen, where α is the range of interaction forces. The second part deals with energy conversion in collision, and in the third part, a quantum-mechanical description of such collisions is given. The

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87544

Relaxation of Non-equilibrium Gas Systems S/053/60/072/004/004/006
B029/B056

cross sections σ_i of inelastic collisions and also the probabilities $P = \sigma_i/\sigma_e = 1/z$ of inelastic transition in "elastic" collisions may be calculated by quantum-mechanical methods, a classical calculation being insufficient. As an example, the production of oscillations of a diatomic molecule is discussed. Attractive forces in remote action were taken into account by Ye. Ye. Nikitin in a semi-classical study. The next chapters deal with the relaxation of translational, rotational, and oscillational energy, dissociation and ionization, as well as with the methods of determining the relaxation constants. Nine of such methods are enumerated and briefly described. In the last chapter, the relaxation constants are discussed. The following conclusions were drawn from an analysis of the tables: The cross sections of the various elementary processes differ considerably, and the degrees of freedom of gases may be subdivided into "active" (where equilibrium is established after a few collisions) and "inert" degrees of freedom (in which equilibrium is established only after many collisions). The former comprise translational motion and rotation, and the latter oscillations. The relaxation times for the oscillational degrees of freedom and the constants of the reaction

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87544

Relaxation of Non-equilibrium Gas Systems S/053/60/072/003/001/004
B029/B056

rates of dissociation depend largely on the gas temperature T. The dissociation rate grows considerably with increasing temperature. The rates of relaxation of the vibrations of nitrogen and of the dissociation of oxygen at 3000°K are of the same order. Within the same temperature range, the production of NO plays an important part, viz., according to the scheme suggested by Ya. B. Zel'dovich: $O_2 \rightleftarrows 2O$, $O + N_2 \rightleftarrows NO + N$, $N + O_2 \rightleftarrows NO + O$. The probabilities of inelastic transitions occurring in collisions depend largely on the nature of the colliding particles. The results obtained by various research workers differ considerably. There are 1 figure, 4 tables and 174 references: 29 Soviet, 136 US, 1 British, 5 German, and 6 Japanese.

X

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

ANUFRIYEV, A.A.; LESKOV, L.V.

Optical pyrometry of nonuniform light sources. Opt. i spektr. 16 no.2:325-328 F '64. (MIRA 17:4)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M., kapitan dal'nego plavaniya

Errors in the recognition of coastal markers. Mor. flot 22 no.3:18-20 Mr '62. (MIRA 15:2)
(Aids to navigation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M.

Navigation

Determining compass correction and location of vessel by the method of consecutive approximation. Mor. flot 13 no. 2, 1953

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

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M., kapitan dal'nego plavaniya.

Applying the cross-bearing method. Mor.i rech.flot 14 no.2:8-10 F '54. (MLRA 7:1)
(Navigation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LISKOV, V. V.

LISKOV, V. V. -- "Determination of the Location of a Ship and Correction to Its Course from Two Objects." Leningrad Order of Lenin Engineering Military School imeni Admiral Makarov. Leningrad, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SOURCE: Knizhnaya Letopis', No 6, 1956

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, Mikhail Mikhaylovich, kapitan dal'nego plavaniya; GAMOV, A.G., otvetstvennyy redaktor; KUZNETSOV, A.D., redaktor izdatel'stva; PETERSON, M.M., tekhnicheskiy redaktor

[Determining ship's position and correcting the compass by two objects] Opredelenie mesta sudna i poprovki kompasa po dvum predmetam. Leningrad, Izd-vo "Morskoi transport," 1956. 63 p. (MLRA 10:5)

(Compass)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

BARANOV, Yuriy Konstantinovich, dotsent; LESKOV, Mikhail Mikhaylovich, dotsent; YUSHCHENKO, Artemiy Pavlovich; KOZHUKHOV, V.P., redaktor; KUZNETSOV, D.A., redaktor izdatel'stva; PETERSON, M.M., tekhnicheskiy redaktor

[Modern methods of navigation; a manual for captains] Sovremennye sposoby navigatsii; uchebnoe posobie kapitanam. Leningrad, izd-vo "Morskoi transport," 1956. 122 p. (MLRA 10:9)
(Navigation)

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LESKOV, M.M.

BUKHANOVSKIY, I.L.; LESKOV, M.M., redaktor; BEGICHEVA, M.N., tekhnicheskiy redaktor; DIZHUR, I.M., redaktor izdatel'stva.

[Navigation in narrow waters with the aid of ship's radar; manual for navigators] Plavanie v stesnennykh vodakh s pomoshch'iu sudovogo radiolokatora (posobie dlia sudovoditelei). Moskva, Izd-vo "Morskoi Transport. 1956. 134 p. (Moscow. TSentral'nyi nauchno-issledovatel'skii institut ekonomiki i ekspluatatsii vodnogo transporta. Trudy no.9) (MLRA 10:1)

(Radar in navigation)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M., kapitan dal'nego plavaniya.

Effect of earth rotation on the movement of ships. Mor.flot 17 no.10:17-18 O '57. (MIRA 10:12)

1.Leningradskoye Vyssheye inzhenernoye morskoye uchilishche.
(Navigation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

VASIL'YEV, V., kapitan; LESKOV, M.

Twenty-four thousand miles on the training ship "Tovarishch." Mor. flot 18 no.5:4-6 My '58. (MIRA 11:6)

1.Uchebnoye sudno "Tovarishch." 2.Glavnyy rukovoditel' praktiki (for Leskov).

(Training ships)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESIOV, M., kapitan dal'nego plavaniya

Navigating with the aid of radar along the line of equal distances.
Mor. flot. 19 no.2:9-12 F '59. (MIRA 12:3)

1.Leningradskoye vyssheye inzhenernoye morskoye uchilishche im. admirala Makarova.
(Radar in navigation)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M., kapitan dal'nego plavaniya

Necessity of developing braking devices for merchant ships. Mor.flot 19 no.12:12-13 D '59. (MIRA 13:3)
(Merchant Marine--Safety measures)
(Collisions at sea--Prevention)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

BARANOV, Yuriy Konstantinovich; LESKOV, Mikhail Mikhaylovich; YUSHCHENKO, Artemiy Pavlovich; MATYUSHINA, S.P., red.; LAVRENOVA, N.B., tekhn. red.

[Modern methods of navigation] Sovremennye sposoby navigatsii. Izd.2., ispr. i dop. Moskva, Izd-vo "Morskoi transport," 1961. 181 p. (MIRA 14:9)

(Navigation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

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LESKOV, M., kapitan dal'nego plavaniya

Remarks on the current sailing of ships. Mor.flot 21 no.1:20 Ja '61. (MIRA 14:6)

1. Dekan sudovoditel'skogo fakul'teta Leningradskogo vysshego inzhenernogo morskogo uchilishcha im. admirala Makarova.
(Navigation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M.M., dotsent

Tables for the determination of drift angles. Biul. Nor. Glav rev. po bezop. moreplav. no 13:37-[illegible] [illegible]. (MIRA [illegible])

1. Leningradskoye vysshoye inzhenernoye morskoye uchilishche im. admirala Makarova.

(Navigation--Tables)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M.M., kand.tekhn.nauk

General case for determining compass corrections by bearings from two objects. Inform.sbor.TSNIIMF no.60 Sudovozh.i sviaz' no.15:32-34 '61. (MIRA 16:2)

(Radio compass)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M., kapitan dal'nego plavaniya

General graphic solution of navigation problems by the "insertion" method using position lines taken at various times. Mor. flot 22 no.10:16-19 O '62. (MIRA 15:10)

(Navigation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

MIZERNITSKIY, Aleksandr Il'ich, kapitan dal'nego plavaniya, dots.;
YUSHCHENKO, A.P., doktor voyenno-morskikh nauk,
retsenzent; LESKOV, M.M., kand. tekhn. nauk, dots.,
retsenzent; YERMOLAYEV, G.G., dots., retsenzent, UDALOV, V.I.,
kapitan dal'nego plavaniya, kand. tekhn. nauk, dots., retsen-
zent, SERKO, G.S., red. izd-va, USANOVA, N.B., tekhn. red.

[Navigation] Navigatsiia. Moskva, Izd-vo "Morskoi transport,"
1963. 526 p. (MIRA 16:9)
(Navigation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, M.

Some conceptions in the recommendations on the use of radar stations in the 1960 Regulations for the Prevention of Ship Collisions at Sea. Mor. flot. 24 no.5:15-17 My '64. (MIRA 18:12)

1. Zaveduyushchiy kafedroy morskogo dela Leningradskogo vysshego inzhenernogo morskogo uchilishcha im. admirala Makarova.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

BARANOV, Yuriy Konstantinovich; LESKOV, Mikhail Mikhaylovich; LESHKOV, O.I., red.

[Collection of problems on the use of radar in the prevention of ship collisions] Sbornik zadach po ispol'zovaniiu radiolokatora dlia preduprezhdeniia stolknoveniĭ sudov. Moskva, Transport, 1964. 60 p. (MIRA 18:6)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, Mikhail Mikhaylovich; GAVRYUK, Mikhail Ivanovich;
MESHKOV, O.I., red.

[Errors of navigation determinations] Oshibki navigatsionnykh opredelenii. Moskva, Transport, 1964. 135 p.
(MIRA 17:10)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

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ACC NR: AM6003009 Monograph UR/

Yushchenko, Artemiy Pavlovich; Leskov, Mikhail Mikhailovich

Navigation (Navigatsiya) Moscow, Izd-vo "Transport," 1965. 410 p. illus., biblio. 15,000 copies printed. A textbook for higher naval engineering institutes of the Ministry of the Merchant Marine.

TOPIC TAGS: marine engineering, navigation, ship navigation, ship navigation equipment, ship component, electronic navigation equipment

PURPOSE AND COVERAGE: This textbook is intended for students in higher marine engineering academies and naval schools, and for ship's officers; it may also be used by navigators in the naval merchant fleets. The book contains, in somewhat expanded form, lectures given by the authors to students at the Leningrad higher marine-engineering academy im. S. O. Makarov. Besides the fundamental information on navigation presented in the book, problems involving the use of electronic navigation equipment are examined, and one chapter devoted to economic considerations in navigation is included. In the book, the original conclusions of the authors regarding navigation problems are presented, as are all the most recent achievements of the most prominent specialists in the field. At the

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ACC NR: AM6003009

request of the authors, chapter XVII and paragraphs 87 and 88 were written by Yu. K. Baranov.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, N.D.

Experiments on prolonged tapping in the Petrograd district. N. D. Leskov and G. N. Zhuravlev. *Lesokhimicheskaya Prom.* 2, No. 2, 51-3(1933).—The "French" method was found to be best. The trees should be 65-70 years old. A. A. Boehtlingk

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

Leskov, N.D.

K.

USSR/Forestry - Forest Cultivation.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15385

Author : N.D. Leskov

Inst : The Ural Technical Forestry Institute.

Title : Peculiarities in the Assized Characteristics of the Leading Types of Spruce and Fir Forests of the South Western Timberland of Sverdlovskaya Oblast'. (Osobennosti taksatsionnoy kharakteristiki vedushchikh tipov lesa yelovo-pikhtovykh nasazhdeniy yugozapadnykh leskhozov Sverdlovkoy oblasti).

Orig Pub : Sb. tr. po lesn. kh-vu. Ural'skiy lesotekhn. in-t, 1956, vyp. 3, 51-60.

Abstract : Resulting from three years study of three types of forest: the spruce forest with oxalidaceae and mixed grasses, the spruce forest with large ferns, and spruce

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

USSR/Forestry - Forest Cultivation. K.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15385

this regularity. Regularities are not found in the changes in completeness and stores. Tables and graphs are presented which illustrate the dynamics and modifications in the various assized indices.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

K-2

USSR / Forestry. Dendrology.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24078.

Author : Leskov, N. D.
Inst : Not given.
Title : Features of the Character of Forest Evaluation and of the Structure of Biogroups in the Species of Berry Woods.

Orig Pub: Sb. tr. po lesn. kh-vu. Ural'skiy lesotekhn. in-t, 1956, vyp. 4, 35-42.

Abstract: An investigation of full plantings was made in the Ural educational-experimental forest. Through repeated tests, 523 biological groups were chosen. It was ascertained that with increase of age, the number of trees in the biological group decreases almost twice as much with increase of its average area. The accretion by diameter also diminishes,

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, O.V.; YAVOYS'KIY, V., redakter; GOLOVCHENKO, G., tekhnicheskiy redakter.

[Advanced steel-making methods] Peredovi metody varky stali. Kyiv, Derzh. vyd-vo tekhnichnoi lit-ry Ukrainy, 1951, 30 p. (MLRA 9:6)
[Microfilm]

(Steel--Metallurgy)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

PALEYEVA, Yevdokiya (g.Nakhodka); LESKOV, S.; SHITS, O. (s.Nizhnyaya Omra, Komi ASSR)

Readers reply to Valia Mitiukova. Obshchestv.pit. no.4:30-31 Ap '61. (MIRA 14:3)

1. Zaveduyushchiy proizvodstvom stolovoy No.27, g.Khabarovsk (for Leskov).

(Cooking schools)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, S.A.

Isolation of Middle Paleozoic intrusions in the northern Tien Shan. Inform.sbor.VSEGEI no.46:103-107 '61. (MIRA 15:3)
(Tien Shan--Rocks, Igneous)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

GRIGOR'YEV, K.A.; K[illegible]YEV, V.I.; [illegible]SKOV, [illegible]; [illegible]

Uranium and some other elements in the red [illegible] of the [illegible] Tien Shan. Trudy VSEGEI 95:141-148 [illegible].

[illegible]

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

TORGONSKIY, Mikhail Nikolayevich, kandidat tekhnicheskikh nauk; TITOV, P.V., inzhener, ofitsial'nyy retsenzent; LESKOV, T.N., inzhener, ofitsial'nyy retsenzent; SAMUYLLO, V.I., redaktor; PITERMAN, Ye.L., redaktor izdatel'stva; KARASIK, N.P., tekhnicheskiy redaktor

[Structures for forest roads] Iskusstvennye sooruzheniia lesovoznykh dorog. Moskva, Goslesbumizdat, 1956. 151 p. (MLRA 9:9)
(Forest roads)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

CHUMAK, M.M.; LESKOV, V.A. (Kurskaya oblast')

Work of the feldsher on the collective farm. Fel'd. i akush. 25 no.2:40-43 F '60. (MIRA 13:5)
(KALINOVKA (KURSK PROVINCE)--AGRICULTURAL LABORERS--MEDICAL CARE)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

KOZLOV, Yu.M. (Leningrad); LESKOV, V.G. (Leningrad)

Concerning one method for realizing self-adjusting operation in nonlinear automatic control systems. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.6:42-46 N-D '61. (MIRA 14:12)
(Automatic control)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

S/024/61/000/006/005/01[illegible]
E140/E335

16.8000

AUTHORS: Kozlov, Yu.M. and Leskov, V.G. [illegible]

TITLE: On one method of realizing the self-adjustment principle in nonlinear automatic systems

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika no. 6, 1961, 42 - 46

TEXT: The authors propose to utilize the phenomenon of weak limited-amplitude oscillations in systems close to the boundary of stability, to regulate automatically the [illegible] in an automatic-control system. This is, of course, possible only if the oscillations can occur in a narrow band of frequencies in order to detect their presence on the background of random disturbances in the system, using narrow-band filters. There are 3 figures and 5 Soviet-bloc references.

SUBMITTED: June 19, 1961

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

16.9500 (103/, 112/, 1132)
9.2530

S/103/61/022/002/012/015
B010/B060

AUTHORS: Leskov, V. G., Chizhov, A. I., Chicherin, N. I. (Leningrad)

TITLE: Some diagrams of half-wave (high speed) magnetic amplifiers for servodrives

PERIODICAL: Avtomatika i telemekhanika, v 22, no. 2, 1961, 250-258

TEXT: A study has been made of three diagrams of magnetic amplifiers displaying certain improvements compared with other known diagrams. The first part of the present paper is devoted to a discussion of a double-branch half-wave magnetic amplifier with a strong capacitive positive d-c feedback. The main elements of the circuit as well as its mode of operation are described with the aid of Fig. 1. If a magnetic amplifier of this kind has a phase-sensitive rectifier circuit as shown by Fig. 3 and as suggested by V. G. Baranovskiy, an output voltage will then be obtained owing to the properties of the magnetic amplifier, one component of which will be proportional to the input signal, while the second component will be proportional to the variation rate of the d-c component of the input voltage of the phase-sensitive rectifier. These properties

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89181

Some diagrams of half-wave ...

S/103/61/022/002/012/015
B010/B060

indicate a good usability for servodrives. The second part deals with two double-branch half-wave magnetic amplifiers with a high Q factor. Magnetic amplifier controls are made by way of a change of the magnetic state of the cores through a change of the d-c component of the magnetic field. In magnetic amplifiers with a positive feedback this task can be solved either by changing magnitude and direction of the current in the control coils or by changing the positive feedback though a change of the rectification factor. The second possibility allows, as shown by tests, working out high-quality magnetic amplifiers. Fig. 4 shows a high-speed, push-pull magnetic power amplifier with a-c output. The respective control is done by changing the internal feedback with the aid of transistors controlling the feedback factor. This circuit has a large power amplification factor (larger than $1.5 \cdot 10^5$), low inertia, ($K_p/\tau \approx 7.5 \cdot 10^7$, K_p being the power amplification factor, τ the time constant; moreover it is easy to assemble and has a large linear part of the characteristic. A further development of this diagram is shown in Fig. 5. As may be seen, this diagram dispenses with rectifiers in the

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89181

Some diagrams of half-wave ...

S/103/61/022/002/012/015
B019/B060

feedback circuit and replaces them by transistors. After a thorough discussion of the properties of this diagram it is pointed out that the joint use of transistors and magnetic amplifiers permits working out amplifier systems satisfying all requirements regarding operational safety, quick response, minimum weight, and size, provided the amplification factors and output power are sufficiently large. There are 6 figures and 4 Soviet-bloc references.

SUBMITTED: March 4, 1960

Legend to Fig. 1: Two variants of magnetic amplifiers.
Legend to Fig. 3: 1) amplifier according to diagram in Fig. 1a.
(See next card for figs.)

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, YU.

Machine-Tractor stations

How the Ramenskiy Machine-tractor Station gets ready for fall and winter repair
MTS. 12, No. 8, 1952

Monthly List of Russian Accessions, Library of Congress, November, 1952 UNCL

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LEONOV, Yu.

Collective Farms

Cooperation among brigades. MTS 12 No. 9, 1952.

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

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOV, YU.

Tillage

Bountiful yield from irrigated land. MTS 13, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

1. LESKOV, Yu.

2. USSR (600)

4. Agricultural Extension Work

7. District agronomist, MTS 13 no. 4, 1953.

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

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOVA, A., kand. sel'skokhoz. nauk

Virus disease of the apple moth Hyponomeuta malinellus. Zashch. rast. ot vred. i bol. 10 no.5:47 '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOVA, A.I.

Planning of the shops in locomotive depots. Zhel.dor.transp. 46 no.3:85-86 Mr '64. (MIRA 17:3)

1. Starshiy inzh.-ekonomist lokomotivnogo depo Zheleznodorozhnaya Moskovskoy dorogi.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

SYTENKO, L.S. (g. Ussuriysk, Primorskogo kraya); LESKOVA, A.Ya., kand. sel'skokhozyaystvennykh nauk; PROKHOROVA, K.P.

Experience in using entobacterin. Zashch. rast. ot vred. i bol. 7 no.1:37-38 '62. (MIRA 15:5)

1. Vsesoyuznyy institut zashchity rasteniy (for Leskova).
2. Saveduyushchaya laboratoriyey Voronezhskoy biostantsii (for Prokhorova).

(Insecticides)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOVA, A. Ya., mladshiy nauchnyy sotrudnik

Bacterial preparation against cabbage pests. Zashch. rast. ot vred. i bol. 5 no.6:31-32 Je '60. (MIRA 16:1)

1. Vsesoyuznyy institut zashchity rasteniy.

(Cabbage—Diseases and pests)
(Insects, Injurious and beneficial—Biological control)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOVA, L.P. (L'vov)

Reorganization of the public health administration in a consolidated rural district. Zdrav. Ros. Feder. 7 no.8:11 Ag'63. (MIRA 16:10)

(PUBLIC HEALTH, RURAL)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOVA, L.P.

Organizing medical attendance for children at rural doctors' districts and surgical-obstetric points. Vop. okhr. mat. i det. 6 no.6:53-56 Je '61. (MIRA 15:7)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i detstva (dir. - kand. med. nauk L.Ya. Davydov, rukovoditel' - dotsent I.M. Rudnev).
(PEDIATRICS) (CHILDREN--CARE AND HYGIENE)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LEBEDEV, Andrey Nikolayevich; GINZBURG, R.I., kand. tekhn. nauk, retsenzent; MAGIN, S.M., inzh., retsenzent; MOZZHUKHIN, N.M., kand. tekhn. nauk, retsenzent; TREVOGIN, P.A., kand. tekhn. nauk, retsenzent; TSEYTLIN, Ya.M., nauchnyy red.; LESKOVA, L.R., red.; ERASOVA, N.V., tekhn. red.

[Modeling of transcendental equations] Modelirovanie transtsendentnykh uravnenii. Leningrad, Sudpromgiz, 1963. 187 p. (MIRA 16:5)

(Mathematical models)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

ARISTOV, Yevgeniy Mikhaylovich; ZORIN, D.I., kand. tekhn.nauk, retsenzent; KLYUKIN, I.I., retsenzent; MYASNIKOV, L.L., prof., nauchn. red.; LESKOVA, L.R., red.; EGASTOVA, N.V., tekhn. red.

[Physical quantities and units for their measurement] Fizicheskie velichiny i edinitsy ikh izmereniia. Leningrad, Sudpromgiz, 1963. 94 p. (MIRA 17:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

PROSTAKOV, Anatoliy Leonidovich; LAPSHIN, V.P., kand. voenno-morsk. nauk, retsenzent; STASHKEVICH, A.P., otv.red.; LESKOVA, L.N., red.

[Underwater acoustics in foreign navies; according to materials of the foreign press] Gidroakustika v inostrannykh flotakh; po materialam zarubezhnoi pechati. Leningrad, Sudostroenie, 1964. 154 p. (MIRA 17:4)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

RABINOVICH, Abram Grigor'yevich; VORONTSOV, A.Ye., retsenzent; NEOFITOV, A.M., retsenzent; OKUN', Ye.L., nauchn. red.; LESKOVA, L.M., red.

[Adjustment of radio systems] Regulirovka radiotekhnicheskikh ustroistv. Leningrad, Sudostroenie, 1964. 218 p. (MIRA 17:5)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

PAVLOV, Viktor Vasil'yevich; YAKOVCHUK, N.S., nauchn. red.; LESKOVA, L.R., red.

[Semiconductor control devices for ship atomic plants] Poluprovodnikovye upravliaiushchie ustroistva dlia sudovykh atomnykh ustanovok. Leningrad, Sudostroenie, 1964. 166 p. (MIRA 17:12)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

VAYTS, Daniil Moiseyevich; GEORGIANOV, Konstantin Viktorovich; YAKOBSON, Vladimir Vladimirovich; KARPOV, N.I., retsenzent; VORONTSOV, A.Ye., nauchn. red.; LESKOVA, L.R., red.

[Installation of marine radio-engineering equipment] Montazh sudovoi radiotekhnicheskoi apparatury. Leningrad, Izd-vo Sudostroenie, 1964. 167 p. (MIRA 17:12)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

PESHCHEVITSKIY, B.I.; PTITSYN, B.V.; LESKOVA, N.M.

Hydrolysis of chloroplatinite ion. Izv. Sib. otd. AN SSSR no. 11: 143-145 '62. (MIRA 17:9)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOVA, Ye.A.

Characteristics of tropospheric jet streams over the Far East. Trudy Dal'nevost. NIGMI no.14:3-29 '63. (MIRA 16:9)
(Far East) (Jet streams)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

JESKOVA, Ye.A.

Some characteristics of jet streams over the northwestern part of the Pacific Ocean in the summer of 1960. Trudy Dal'nevost. NIGMI no.14:30-33 '62. (MIRA 15:9)
(Pacific Ocean—Jet streams)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

STYK, B.; technical assistance: LESKOVA, B.; [illegible] Z.

Cofactor and specific antibodies against influenza viruses. I. Method of cofactor titration. Cofactor content of various animal sera. Acta virol.Engl.Ed.Praha 5 no.6:334-341 N '61.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(INFLUENZA immunol) (HEMAGGLUTINATION)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929410008-8

LESKOVA, G.I.

AUTHORS: Leskova, G.I., Flomina, Ye.Ye. SOV/32-24-9-14/53

TITLE: Electric Hygrometers (Elektricheskiye vlagomery)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1155-1157 (USSR)

ABSTRACT: At present the methods of measuring the electric resistance as well as the capacity are the most spread in measuring the humidity. The latter are more precise as they are based on the important difference of the dielectricity constants between pure water (ε_w = 81) and other substances (ε = 3-5). Among the many methods of measuring the capacity the high-frequency methods are the most accurate. To work out devices several high-frequency schemes were checked in the present case. Two of them are recommended for measuring the capillary humidity of substances with relatively low electric conductivity. One of the two diagrams given shows a hygrometer operating according to the principle of an oscillation disruption. It contains a quartz generator (with lamp 6S5), an electronic-optical indicator 6E5, and a rectifier (with lamp 6Is5S). The second diagram shows a hygrometer based on "zero-pulsation" and operating according to the principle of "oscillation mixing". This apparatus offers greater possibilities and makes it possible to measure 0,01 g water with an accuracy of ± 1%. The capacitor-pick-

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