

ACC NR: AM7003442

Monograph

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Abramov, A. M.; Zelikov, I. L.; Idzon, M. F.; Konarev, A. B.; Mityashkin, D. Z.; Nikol'skiy, L. A.; Pronina, Ye. M.; Romanov, K. F.; Talanova, G. A.

Manufacture of gas-turbine engines Reference manual (Proizvodstvo gazoturbinnnykh dvigateley; spravochnoye posobiye) Ed. by M. F. Idzon, Moscow, Izd-vo "Mashinostroyeniye", 66. 0472 p. illus., biblio., index. 5,000 copies printed

TOPIC TAGS: gas turbine engine, metalworking machinery, hot machining, metal machining, metal stamping, metal welding, mechanical metal cutting, hot forming

PURPOSE AND COVERAGE: This reference manual contains technical specifications for the design of parts and units of gas-turbine engines. Information is given on their manufacture by hot forming casting, cold forging, welding mechanical and electric processing, and also on equipment, technical control, automation of production processes and production organization. This book is intended for technologists of machine building plants, engaged in the production of stationary and transport gas-turbine engines. It will also be useful to designers and students of senior courses of the respective departments of institutions of higher

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learning. Professor A. A. Kuindzhi made a series of valuable comments during the preparation of the manuscript. Candidate of Technical Sciences I. I. Pudkov and Engineers V. Ye. Popov, N. I. Sokolov, G. A. Sharonov, A. V. Magdich, D. K. Domnikov, D. I. Braslovskiy, Yu. S. Fedorov, Ye. P. Rogozhkin, I. Ya. Degtyarev, V. D. Andreyev, S. M. Skakal'skiy, were of great assistance in the preparation of the manuscript.

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SUB CODE: 10, 13/ SUBM DATE: 18Mar66/ ORIG REF: 065

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PHASE I BOOK EXPLOITATION SOV/5304

Soveshchaniye po teorii litейnykh protsessov. 5th, 1959
 Technost' otlyetki: trudy soveshchaniya (Accuracy of Castings; Transactions of the Fifth Conference on the Theory of Founding Processes) Moscow, Kazhgis, 1950. 206 p. 3,500 copies printed.
 Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnologii mashinostroyeniya.

Ed. (title page): B. B. Gulyayev, Doctor of Technical Sciences, Professor; Ed. of Publishing House: O. N. Soboleva; Tech. Ed.: A. P. Vvarova; Managing Ed. for Literature on Hot-Processed Metals: S. Ya. Golovin, Engineer.

PURPOSE: This book is intended for scientific and technical personnel at scientific research institutes, factories, and schools of higher education.

COVERAGE: The book contains 19 reports read at a conference on the accuracy of castings. The conference was organized by the Committee on Processing in Machine Building and sponsored by the Institut mashinovedeniya AN SSSR (Institute of the Science of Machines of the Academy of Sciences USSR). The reports, presented by leading specialists, science workers, and production personnel, discuss the present state of the problem of the accuracy of castings and methods of solving the problems involved. There are 58 references, mostly Soviet.

Konavey, L. Ye. [Engineer]. Distortion of Sand Molds

Zhukovskiy, S. S. [Engineer], and Xi Ts'u-shan-chin [Engineer]. Dimensional Errors of Castings Caused by Patterns and Flasks 125

Dubrovskiy, A. M. [Engineer]. Effect of Thermal Distortion of the Molding Mixtures on the Accuracy of Castings 131
 The work of investigating the distortions and thermal stress in the molding mixtures was carried out under the supervision of P. P. Berg.

Zemchenko, S. I. [Engineer], and B. B. Gulyayev. Production of Precision Castings in Shell Molds Pressed from a Waterglass Mixture 145

Kolchin, I. P. [Engineer], and V. V. Ryzhenkov [Engineer]. Production of Large Precision Steel Castings By Using Chemically Hardening Mixtures 153

Rubtsov, M. M. [Doctor of Technical Sciences, Professor], and Y. V. Zolotov [Engineer]. Dimensional Accuracy of Investment Castings 160

Goryunov, I. I. [Candidate of Technical Sciences]. Dimensional Accuracy and Surface Roughness of Castings Obtained by Various Methods by O. A. Kantor, A. Ye. Danilov, A. I. Belyayev, and Engineer V. B. Shul'man participated in making castings. 180

Makal'skiy, M. L. [Engineer], and B. B. Gulyayev. Formation of the Contours of Castings in Die Casting 193

Kolesnichenko, A. G. [Engineer]. Accuracy of Castings Channeled in Metal Molds 203

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1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

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Ch

A new rapid method of sulfur determination in mineral oils... I. S. Zehkov, A. N. Kotrelev and E. I. Fogelson. *Nefteyane Khimiyata* 26, No. 5, 55-9(1934).—The Holthaus S method used for steel is applied to S detn. in mineral oils. Thus, 0.1-0.15 g. of oil is placed in a boat in a Mars (elec. resistance) furnace, and the combustion is effected in a stream of dry O₂, first at 450-650° and finally at 1000-1150°. The solns. needed for the process are: (1) 100 cc. H₂O₂ (30%) dild. with H₂O to 5 l.; (2) 6.81 cc. H₂SO₄ of 1.84 sp. gr. dild. with H₂O to 5 l.; (3) 10 g. NaOH dissolved in 5 l. H₂O; in the same container are introduced 0.85 g. of sodium alizarin sulfonate. The titer of the solns. is checked empirically with a standard steel. It is claimed that a S detn. by this method requires 20-25 min. and the accuracy is comparable to that of the Eschka detns. A. A. Boxtlingk

COMMON ELEMENTS

MATERIALS INDEX

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

GROUPS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PROCESSES AND PROCEDURES UNIT

Rapid determination of sulfur in petroleum products.
 E. M. Velikovskaya and I. S. Zelikov. *Neftynoe Khim.*
 18, No. 8, 52-4 (1937); *Chimie & Industrie* 39, 1088.
 The method is based on combustion and isometric
 titration of the SO₂ formed. The tube contg. the sample
 is heated by 2 elec. furnaces placed side by side; the first
 is gradually heated from 200° to 700° to evap. the sample
 and the second is regulated to a temp. of 600-650° from
 the start, and the vapors are burned in it. The combus-
 tion gases are passed through a cylinder contg. H₂O and
 starch, above which is mounted a buret with 0.02 N I.
 The SO₂ absorbed is titrated as combustion is carried on.
 A. Robinson, *Continued*

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION	INDEX	REVISION
ASB-51A	1	1
ASB-51A	2	1
ASB-51A	3	1
ASB-51A	4	1
ASB-51A	5	1
ASB-51A	6	1
ASB-51A	7	1
ASB-51A	8	1
ASB-51A	9	1
ASB-51A	10	1
ASB-51A	11	1
ASB-51A	12	1
ASB-51A	13	1
ASB-51A	14	1
ASB-51A	15	1
ASB-51A	16	1
ASB-51A	17	1
ASB-51A	18	1
ASB-51A	19	1
ASB-51A	20	1
ASB-51A	21	1
ASB-51A	22	1
ASB-51A	23	1
ASB-51A	24	1
ASB-51A	25	1
ASB-51A	26	1
ASB-51A	27	1
ASB-51A	28	1
ASB-51A	29	1
ASB-51A	30	1
ASB-51A	31	1
ASB-51A	32	1
ASB-51A	33	1
ASB-51A	34	1
ASB-51A	35	1
ASB-51A	36	1
ASB-51A	37	1
ASB-51A	38	1
ASB-51A	39	1
ASB-51A	40	1

SOLONITSYN, Aleksey Fedorovich; ZELIKOV, V., red.; CHOTIYEV, S.,
tekhn. red.

[Conquerors of mountains] Pokoriteli gor. Frunze, Kir-
gizgosizdat, 1963. 64 p. (MIRA 17:2)

MOISEYEV, Grigoriy Alekseyevich; ZELIKOV, V., red.; CHOTIYEV, S.,
tekhn. red.

[Meat plant] Fabrika miasa. Frunze, Kirgizgosizdat,
1962. 29 p. (MIRA 17:2)

AKIMKIN, Aleksey Vasil'yevich; ZELIKOV, V., red.; TYURYAYEV, V., tekhn.
red.

[New wage system in the sugar industry of Kirghizistan] No-
vye usloviia oplaty truda v sakharnoi promyshlennosti Kir-
gizii. Frunze, Kirgizskoe gos.izd-vo, 1962. 51 p.
(MIRA 17:3)

MUSIN, Khatmulla Musich; ZELIKOV, V., red.; CHOTIMEV, S., tekhn.
red.

[The working class of Soviet Kirghizistan, 1917-1963; a
brief historical outline] Rabochii klass Kirgizii (1917-
1963 gg.); kratkii istoricheskii ocherk. Frunze, Kirgiz-
gosizdat, 1963. 87 p. (MIRA 17:2)

COUNTRY : USSR K
CATEGORY : Forestry. Forest Biology and Typology.
ABS. JOUR.: Ref Zhur -Biologiya, No.5 , 1959, No. 20115
Author : Zelikov, V.D.
INST. : --
TITLE : Volumetric Weight of Soil under Spruce Woods
of Various Ages.
ORIG. PUB.: Nauchn. dokl. vyssh. shkoly. Lesoinzh.
delo, 1958, No.2, 44-46
ABSTRACT : This investigation was conducted in pure
single-story spruce woods on turf-Podzolic
average loamy soil at Shchelkov Leskhoz in
Moskovskaya Oblast during 1955-1956 on five
trial plots and in a forest glade. It was
noted that the upper soil layers (10-15 cm)
compacted somewhat with increased age in the
spruce groves. --V.I. Klimov

CARD : 1/1

ZELIKOV, V.D.; PSHONKOVA, V.G.

Characteristics of the soils of wooded parks, public gardens, and streets
of Moscow. Gor. khoz. Mosk. 36 no. j:28-31 My '62. (MIRA 15:7)
(Moscow—Soils)

ZELIKOV, V. D., Candidate Agric Sci (diss) -- "The water conditions of soil-podzolic soils growing spruce of various ages". Moscow, 1959. 20 pp (Min Higher Educ USSR, Moscow Forestry Engineering Inst) (KL, No 22, 1959, 118)

USSR / Forestry. Forest Economy

K-3

Abs Jour: Ref Zhur-Biol., No 13, 1956, 56368

Author : Zelikov, V. D.

Inst : Moscow Forest Technology Institute

Title : Some New Data on the Growth and Development of
Oak and on the Improvement of its Cultivation in
the Shipov Forest

Orig Pub: Nauchn. tr. Mosk. Lesotekhn. In-t, 1957, vyp. 5,
179-192

Abstract: Experimental thinnings were conducted according
to the liberation and rejuvenation method, and
V. G. Nesterov's classification of trees accor-
ding to growth and development was applied. Tho-
se indicated that the new method affords the

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PROCESSES AND PROPERTIES INDEX

The fusion of cast iron in cupola furnaces with the air blast enriched with oxygen. V. K. Zelikov, *Zashchita* (Petro 7, No. 6, 30) 40(1936); *Chem. Zvest.* 1937, 1, 4210.

The difficulties encountered in the production of cast pieces with C 3.5, Si 1.2-1.4, Mn 0.8-1, P 0.2, S 0.1, Cr 0.2-0.3 and Ni 0.8-1% for Diesel engines with the high mech. properties required, as a bending strength of over 15 kg/cm² mm, and a Brinell hardness of 180-220, are pointed out. The production of cast iron cupola furnaces using an air blast enriched with O₂ is described. Calculation of the heat of the ores is given. Tapping is done at a temp. of 1400-80° of the molten metal. The mech. properties of cast irons produced with and without the addition of O₂ to the air blast are compared. It is concluded that the use of the O₂-enriched air blast definitely improves the mech. properties of the metal. The consumption of coke is less and a more compact structure in the cast product is obtained. As a result of superheating the melt a long time is required for sepn. of the gases during solidification.

M. G. Moore

ASM-55A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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CA

Kinetics of the gas reaction in the cupola furnace. V. Zelikov. *Litovsk Delo* 8, No. 7, 18-21 (1937); *Chem. Zentr.* 1938, 31, 3592; cf. *C. A.* 31, 4627; 32, 8324. — The 3 theories of the gas reaction are reviewed: (1) $C + O_2 \rightarrow CO_2$ and $CO_2 + C \rightarrow 2CO$, (2) $C + \frac{1}{2}O_2 \rightarrow CO$ and $CO + \frac{1}{2}O_2 \rightarrow CO_2$, (3) $xC + yO \rightarrow C_xO_y$ and $C_xO_y + CO \rightarrow CO$. From calcs. of the heat balance the highly endothermic reaction: $CO_2 + C \rightarrow 2CO$ appears to be uneconomical. It is affected by the depth of the coke layer, the size of the coke and the velocity of flow of the CO_2 through the coke. Increasing the coke layer by an additional charge of coke is, e. g., necessary for the reaction to occur and should therefore be avoided in practice.

M. G. Moore

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ASH-LE METALLURGICAL LITERATURE CLASSIFICATION

117 AND 119 GROUPS

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1522 AND 1523 GROUPS

1524 AND 1525 GROUPS

1526 AND 1527 GROUPS

1528 AND 1529 GROUPS

1530 AND 1531 GROUPS

1532 AND 1533 GROUPS

ZELIKOV, YE. E., Engineer

Cand Tech Sci

Dissertation: "Investigation of the Methods for Measuring the Edge Geometry of Cutting Tools."

21/3/50

Moscow Mechanical Inst

SO Vecheryaya Moskva
Sum 71

USSR/Medicine - Bismuth Compounds Nov/Dec 48
Medicine - Penicillin

Effect of Bismuth Preparations (Bismuthol, Polybismol and Bismuth Ballejlate) on Penicillin, Prof. N. N. Oshinnikov, B. I. Zelikova, Chief Biol Assoc, Lab of Experimental Syphilis, Gen Dermatol and Venereal Inst, Min of Pub Health USSR, 3 3/4 pp

"Vest Venereol i Dermatol" No 6

Laboratory experiments on rabbits showed a greater penicillin concentration in the urine from intraducting solutions in oil than in water solutions combined with bismuth preparations. This data must

60/49781

USSR/Medicine - Bismuth Compounds Nov/Dec 48
(Contd)

be clinically determined. Further study is needed on the therapeutic value of the simultaneous introduction of penicillin and bismuth.

60/49781

ZELIKOVA, R.L.

ZELIKOVA, R.L.

USSR/Medicine - Penicillin
Medicine - Venereal Diseases

Nov/Dec 48

"Action of Domestic Penicillin on Spirochaeta
Pallida," Prof N. M. Orehnikov, R. L. Zelikova,
Chief Sci Assoc, Lab of Experimental Syphilis,
Gen Dermatol and Venereol Inst, Min of Pub Health
USSR, 2 3/4 pp

"Vest Venereol i Dermatol" No 6

Experiments in vitro showed that even large doses
did not kill Spirochaeta Pallida. Concentrations
of 5 - 500 units per ml were examined but mobility
method. Morphological changes occurred but mobility

60/4988

USSR/Medicine - Penicillin (Contd)

Nov/Dec 48

was retained for a long time. Retained virulence
even after 3 hours in such solutions and infected
rabbits with syphilis.

60/4988

OVCHINNIKOV, N.M.; ZELIKOVA, R.L.

Effect of penicillin on Spirochaeta pallida in vitro (electron microscopic investigations). Vest.vener. No.1:18-20 Jan-Feb 51.
(CLML 20:6)

1. Prof. N.M. Ovchinnikov; Senior Scientific Associate. 2. Of the Central Skin-Venereological Institute (Director--Candidate Medical Sciences N.M. Turanov) of the Ministry of Public Health USSR.

ZELIKOVA, R.L.

OVCHINNIKOV, N.M.; ZELIKOVA, R.L.

Effect of sleep on urinary penicillin excretion, its concentration
in the blood and its therapeutic activity. Vest. vener. no.3:16-20
May-June 1951. (CINL 20:11)

1. Prof. Ovchinnikov; Senior Scientific Associate Zelikova.
2. Of the Central Scientific-Research Skin-Venereological
Institute of the Ministry of Public Health USSR (Director
Candidate Medical Sciences N.M. Turanov).

ZELIKOVA, R.L.

SHTEYN, A.A.; ZELIKOVA, R.L.; PODUSOVSKIY, V.F.

Effect of disturbance of the innervation and function of the testicle
on the development of experimental leprosy in rats. Zhur. mikrobiol.
i immun., supplement for 1956:31 '57 (MIRA 11:3)

1. Iz L'vovskogo kozhno-venerologicheskogo instituta.
(LEPROSY) (TESTICLE)

ZELIKOVA, R.L.

USSR/General Problems of Pathology. Pathophysiology of
Infection.

U

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37102

Author : Shtein, A.A., Zelikova, R.L., Fodusovski, V.F.

Inst :

Title : The Effect of Disturbances of Innervation and Function
of the Testicle on the Development of Experimental
Leprosy in Rats.

Orig Pub: Zh. microbiol. epidemol. i immunobiologii, 1956 (1957)
prilozhenie, 31.

Abstract: The nerve, innervating the seminal vesicles (S) and
seminal ducts, was sectioned in 12 rats. An emulsion
of a rat leproma was injected 2 weeks later in both
S. The denervated S rapidly increased in size within
1½-2 months. Smears of the internal organs demon-

Card : 1/2

ZELIKOVA, V.

3

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Rubber, Research Institute of Synthetic Rubber (Kaucuk,
Forschungsinstitut fuer synthetischen Kautschuk), Gottwaldov

Source: Prague, Collection of Czechoslovak Chemical Communications,
Vol 26, No 10, October 1961, pp 2480-2483

Data: "Liquid-Vapor Equilibrium XXVII. Phase Equilibria in the
System Isoprene-Methanol at Atmospheric Pressure."

Authors:

MERVART, Z
KUBINKOVA, M
ZELIKOVA, V

ZELIKOVA-URINSON, R. E. Cand. Biolog. Sci.

Dissertation: "The Hemolytic System in a Complement Fixation Reaction."
Second Moscow State Medical Inst imeni I. V. Stalin, 19 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

MERVART, Z.; KUBINOVA, M.; ZELIKOVA, V.

Equilibrium of liquid and vapor. Part 27: Phase balance in the isoprene-methanol system under atmospheric pressure. Coll Cz Chem 26 no.10: 2480-2483 0 '61.

1. Kaucuk, Forschungsinstitut fur synthetischen Kautschuk, Gottwaldov.

ZELIKOVICH, F.

Measures of energy. Znan. sila 31 no.8:33-34 Ag '56.

(MLRA 9:10)

(Horse-power (Mechanics)) (Electric power)

ZELIKOVICH, E.

Perpetual calendar for the old style and the new. Znan.sila no.8:41 Ag '53.
(MLRA 6:7)
(Calendar, Perpetual)

ZELIKOVICH, E.

Weight without gravitation. Znan. sila 36 no. 2:48 F '61.

(MIRA 14:5)

(Acceleration—Physiological effect)

ZELIKOVICH, E.

ABC's of power engineering. Znan.sila 35 no.4:16-17 Ap '60.
(MIRA 13:8)

(Power engineering)

ZELIKOVICH, E.

To comrades-inventors of perpetuum mobile. Znan. sila 32 no.3:34-36
Mr '57. (MIRA 10:6)

(Perpetual motion)

(Force and energy)

ZELIKOVICH, E.

Conventional signs. Znan. sila no.6:8 Je '53.

(MLRA 6:6)

(Signs and symbols)

AUTHOR: Zelikovich, E. 4-58-6-13/37
TITLE: A Necessary Commentary (Neobkhodimyy kommentariy)
PERIODICAL: Znaniye - sila, 1958, Nr 6, pp 11-16 (USSR)
ABSTRACT: The article contains some general ideas on the theory of relativity, meant to provide better understanding of the previous article ("Astonishing Meetings").

1. Relativity theory

Card 1/1

ZELIKOVICH, E.

A bogged down automobile. Znan.sila no.3:31-32 Nr '55. (MIRA 8:4)
(Mechanics, Applied)

ZELIKOVICH, E.

Mathematical kaleidoscope. Znan.sila 35 no. 11:44-45 N '60.
(MIRA 13:12)

(Mathematical recreations)

ZELIKOVICH, E.

"Worlds of Wuns, Sketches of Stellar Astronomy", Scientific-Popular Library,
State Publishers of Technical Literature Georgian SSR, Tbilisi, 92 pp, 1949.

ZELIKOVICH, E.

Victory over space and time. Znan.sila30 no.10:33-36 0'55.
(Space and time) (MLRA 8:12)

ZELIKOVICH, IORDENESCU

RUMANIA / Microbiology. Antibiosis and Symbiosis. Antibiotics. F-2

Abs Jour: Referat Zh.-Biol., No 6, 25 March 1957, 21844

Author : Zelikovich, Iordenesku

Inst : _____

Title : A Simple Method of Investigation of Resistance to Antibiotics.

Orig Pub: Ftiziologia, 1955, 4, No 4, 69-72

Abstract: The air-dried sputum smear on a slide is immersed for 6 minutes in a 6% sulfuric acid bath, twice rinsed with sterile water and then immersed in a test tube containing the patient's fresh blood taken 2 hours after administering the antibiotic. After 7 - 14 days the preparations are washed, fixed and dyed by the Ziehl-Neelsen method. Their resistance to the antibiotic was judged by the development of the tubercular bacilli on the slide. These data conform well with the experimental results conducted by a similar method on a synthetic medium, with strictly determined quantities of the preparation.

Card : 1/1

-6-

ZELIKOVICH, I.I., inzh.; AVCHUKHOV, V.D., inzh.

linear programming to determine the economic effectiveness of
developing building materials enterprises. Transp. stroi. L.
no.6:35-36 Jә '64. (MERA 18:2)

ZELIKOVICH, I.I., starshiy prepodavatel'

Building time and cost of construction and assembly work. Trudy
MIIT no.162:104-117 '63. (MIRA 17:4)

ZELIKOVICH, I. I., inzh.-ekonomist

Effect of transportation costs on the costs of construction. Trudy
MIIT no.129:117-121 '60. (MIRA 13:11)
(Railroads--Cost of construction)

BARKOV, N.N., kand. ekon. nauk; ZELIKOVICH, I.I., kand. ekonom. nauk;
Prinimali uchastiy: YANDOLOVSKIY, N.A., inzh.; INOZEMTSEVA,
K.N., inzh.; FEL'MAN, A.A., inzh.; KOVALEVA, Z.P., ekonomist

[Economic efficiency of the construction of new railroad lines;
problems of methodology.] Ekonomicheskaya effektivnost' stroi-
tel'stva novykh zheleznodorozhnykh lini; voprosy metodiki.
Moskva, Transport, 1945. 111 p. (Moscow, Vsesoiuznyi nauchno-
issledovatel'skii institut zheleznodorozhnogo transporta.
Trudy, no.293)

(MIRA 18:7)

KOROTCHAYEV, D.I.; KLICHKO, V.I.; KOPYLOV, S.Ye.; MASHCHENKO, P.F.; GIESHMAN, A.Ye., doktor tekhn. nauk, prof.; ZELIKOVICH, I.I., kand.ekonom. nauk; SHRAYBER, S.B., inzh.

Organizing the direction of the construction of the Shush'-Kiya-Shaltyr' line according to a graphic work schedule. Transp. stroi. 15 no.7:3-4 J1 '65. (MIRA 18:7)

1. Nachal'nik upravleniya Abakanstroyput' (for Korotchayev). 2. Glavnyy inzh. stroitel'stva Abakanstroyput' (for Klichko). 3. Glavnyy tekhnolog stroitel'stva Abakanstroyput' (for Kopylov). 4. Nachal'nik stroitel'no-montazhnogo poyezda No.268 (for ~~Mashchenko~~).

ANDREYEVA, H.N., inah.; ZELIEVICH, I.I., kand. Ekonom. nauk

Economic effectiveness of reducing the time required for
building railroads. Transp. stroi. 15 no.6:35,36, 49
Jo '65.

(MIRA 18:12)

ZELIKOVICH, L.

Modernization of the TV-160-ShL loom. Tekst.prom. 21 no.7:44-45
Jl '61. (MIRA 14:8)

1. Glavnyy mekhanik Vitebskoy shelkotkatskoy fabriki.
(Looms)

ASINOVSKAYA, G.A., inzh.; BELOVA, Ye.V., inzh.; ZELIKOVSKAYA, N.M., inzh.

Brass surfacing of ferrous metals with flux gas techniques.
Svar. proizvod. no.2:28-31 F '59. (MIRA 12:1)
(Hard facing) (Brass) (Flux (Metallurgy))

ZELIKOVSKAYA, N.M., inzh.

Determining the limits of flux coating the base metal surface
during gaseous flux surfacing. Trudy VNIIAvtogen no.8:27-36
'62. (MIRA 15:6)
(Gas welding and cutting) (Flux (Metallurgy))

ASINOVSKAYA, G.A., inzh.; ZELIKOVSKAYA, N.M., inzh.

Gas soldering and welding processes with HM-1 gaseous flux.
Trudy VNIIAvtogen no.5:200-220 '59. (MIRA 12:6)
(Gas welding and cutting) (Solder and soldering) (Flux (Metallurgy))

AUTHORS: Asinovskaya, G. A., Engineer, SOV/67-11-5-4/18
Zelikovskaya, N. M., Engineer

TITLE: Caseous Fluxing Agent EM. 1 for the Welding of Brass
Apparatuses (Gazoobraznyy flyus EM .1 dlya svarki
latunnykh apparatov)

PERIODICAL: Kislod, 1958, Vol 11, Nr 5, pp 29 - 36 (USSR)

ABSTRACT: For the brass containers and -tubes used in the
oxygen industry special requirements are set as to
their welding. Previously powdery fluxing agents
were used the dosage of which, however, was difficult
and which were unsuited for the automation of the
process. The fluxing agent under review is a readily boiling
organic mixture of methanol and 55-70% methylborate.
The flux is used for the production of oxidation of the
metal during the welding process. The reaction passes
as follows:
 $2B(CH_3O)_3 + 9O_2 = B_2O_3 + 6CO_2 + 9H_2O$. The methylalcohol
burns completely in the flames. For the introduction
of the fluxing agent a flux feeder is inserted

Card 1/2

Gaseous Fluxing Agent BM -1 for the Welding of Brass Apparatuses

SOV/67-11-5-4/18

into the feed pipe of the acetylene, which permits the dosing. The acetylene is dried before because of the tendency of $B(CH_3O)_3$ towards hydrolysis. The welding is performed under addition of brass-like metals into the welding tank. Special attention requires the elimination of zinc vapors and zinc oxide from the process since the first make the slag porous and the latter are able to produce slag coatings. It was found that a dosage of the fluxing agent in the range between 15 and 40% flux in acetylene makes the weld seam the most stable. More than 40% renders seam cracky, while less than 15% renders it porous. For the investigation, brass plates of different thickness were welded. An average stability of the weld seam of $37-38 \text{ kg/mm}^2$ and of the welded joint of $31-33 \text{ kg/mm}^2$, a buckling angle of the seam of 180° was found and in the breaking test the crack appeared in the metal and not in the seam. There are 7 figures, 2 tables, and 3 references, 2 of which are Soviet.

Card 2/2

ASINOVSKAYA, Gnesya Abramovna; ZELIKOVSKAYA, Nataliya Mikhaylovna;
KOROVIN, Andrey Ivanovich; KRAVETSKIY, G.A.; NEMKOVSKIY,
I.A.; OFITSEROV, D.M.; TESMENITSKIY, D.I.; FISHKIS, M.M.;
SHAPIRO, I.S.; GLIZMANENKO, D.L., kand. tekhn. nauk, red.;
KLIMOVICH, Yu.G., red.; DORODNOVA, L.A., tekhn. red.

[Flame metalworking processes] Gazoplamennaya obrabotka metal-
lov. [By] G.A. Asinovskaya i dr. Moskva, Proftekhizdat, 1962.

556 p.

(MIRA 16:3)

(Gas welding and cutting) (Flame hardening) (Metal spraying)

ASINOVSKAYA, Gnesya Abramovna; STRIZHEVSKIY, Iosif Isaakovich;
ZELIKOVSKAYA, Natal'ya Mikhailovna; ZAYTSEVA, Vera Polikarpovna;
RAGAZINA, M.F., inzh., ved. red.; SHTERLINE, S.Z., dots., red.;
SOROKINA, T.M., tekhn. red.

[EM-1 gas-like flux for nonferrous metal welding and brazing]
Gazoobraznyi flius EM-1 dlia svarki tsvetnykh metallov i tverdoi
paiki. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii,
1958. 16 p. (Peredovoi nauchno-tekhnicheskii i proizvodstven-
nyi opyt. Tema 12. No.M-58-104/O) (MIRA 16:3)
(Flux (Metallurgy)) (Nonferrous metals--Welding)

ASINOVSKAYA, Gnesya Abramovna; ZELIKOVSKAYA, Nataliya Mikhaylovna;
SHSHKOV, A.N., kand.tekhn.nauk, red.; SOBOLEVA, G.N., red.izd-va;
SMIRNOVA, G.V., tekhn.red.

[Gas welding of brass and its deposition on ferrous metals]
Gazovaya svarka latuni i naplavka ee na chernye metally. Pod red.
A.N.Shashkova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostro.t.
lit-ry, 1960. 102 p. (Bibliotekha avtogenshchika, no.4/5)
(MIRA 14:3)

(Brass--Welding) (Gas welding and cutting)
(Hard facing)

USSR/Human and Animal Morphology. Integument

S-4

Abstr Jour : Ref Zhur - Biol., No 20, 1958, No 92856

Author : Zelikovskaya Z.Z.

Inst : L'vov Zooveterinary Institute

Title : Age and Functional Deviations in the Structure of the Mammary Gland

Orig Pub : Sb. nauchn. tr. L'vovsk. zoovet. in-ta, 1956, 8, 133-142

Abstract : The structure of the mammary gland was studied in 250 cows 1-14 years of age. In the absence of lactation and pregnancy, connective tissue was significantly preponderant over the glands until the age of 3. Alveoli (A) at first had regular outlines and narrow lumina; a second, outer layer was composed of myo-epithelial elements (ME). With advancing age the apical ends of the glandular cells began to protrude into the lumina of A, and the ME became more compact. The natural membrane became more noticeable with age. At 3-4 years the glandular lobules increased in size, and the connective tissue decreased. In pregnancy the cells of alveolar epithelium increased, their

Card : 1/2

USSR/ Human and Animal Morphology. Integument

S-4

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 92856

apical ends became oval in shape and filled up with fat inclusions, while ME became allied with smooth muscle cells, and an acidophilic secretion appeared in the lumen. The transition of glandular lobules and A into an active state did not take place at the same time. Morphological signs of activation were observed earlier in young animals. With age the ability of glandular elements to transfer to an active state lessened, but the lactic component inside A increased. Degeneration and sloughing off of part of the cells overloaded with fat occurred in the intervals between periods of lactation. Part of A disappeared altogether, but a complete atrophy of the glandular tissue was not observed, and even in cows 13-14 years old the glands retained the ability for structural and functional reconversion. -- Ya.Ye. Khisin

Card : 2/2

ZELIKOVSKAYA, Z. Z.

Zelikovskaya, Z. Z. "Insular hyperplasia in the pancreas in cases of rabies," Vracheb. delo, 1949, No. 3, paragraphs 199-204.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh ^Statey, No. 18, 1949).

ZELIKOVSKAYA, Z.Z.; TUREVSKIY, A.A.

Embryogenesis of the adipose tissue of the udder of cattle.
Arkhir.anat., gist.i embr. 43 no. 9:76-80 S '62. (MIRA 17:9)

1. Kafedra gistologii (zav. - prof. Z.Z.Zelikovskaya) L'vovskogo
zooveterinarnogo instituta.

14(1)

SOV/66-59-2-4/31

AUTHORS: Zelikovskiy, I., Engineer; Yakobson, V., Candidate of Technical Sciences

TITLE: New Compressor With Built-in Electric Motor With a Cold Production of 700 Standard kcal/hr (Novyy kompressor so vstroyen-nym elektrodvigatelem kholodoproizvoditel'nost'yu 700 stand.kkal/chas)

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 2, pp 11-15 (USSR)

ABSTRACT: The KhZTM (Khar'kov Trade Machine Building Plant) has designed in cooperation with VNIKhI (All-Union Scientific Research Institute for Chemistry) a number of Freon compressors with built-in motor with a cast-iron shell and a horizontal shaft having a capacity of 400 - 1,500 standard kcal/hr. The KhZTM turned out a first lot of refrigerating units FAK-BS with the said compressors. Inspired by foreign models of compressors with built-in motors, the KhZMT in cooperation with VNIKhI has developed a variant and carried out tests with a new compressor, the 2FG-3.6/1.8 having a capacity of 700 standard kcal/hr. In this new design the vertical position of the eccentric shaft and the horizontal position of the cylinders which are set at an angle

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SOV/66-59-2-4/31

New Compressor With Built-in Electric Motor With a Cold Production of 700
Standard kcal/hr

of 90° have been adopted; the cylinder diameter is 36 mm, the piston stroke is 18 mm and the synchronous speed of revolution is 1,500 rpm. The 3-phase electric motor has been designed by the KhELZ (Khar'kov Electrotechnical Plant). Compressor and motor are enclosed in a shell consisting of 2 halves and made of stamped steel. The article describes in detail the design of the group, giving full particulars regarding cold producing capacity, power consumed and technical characteristics. The installation provides for thermoregulating valve ensuring the starting of the compressor under all conditions of temperature at boiling temperatures ranging from -30°C to 5°C, at condensation temperature of 60°C and also at voltage drops in the power supply net work attaining 20% of the nominal voltage. From the Table shown it is evident that the new compressors are superior to the previous models in regard to refrigeration capacity, which is 705 standard kcal/hr for the compressor 2FG-3.6/1.8 at a power consumption ratio of 1950 standard kcal/kwh; the weight of the compressor is 28 kg or 39.7 kg per 1,000 kcal/hr. To facilitate starting a special unloading device is designed.

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SOV/66-59-2-4/31

New Compressor With Built-in Electric Motor With a Cold Production of 700
Standard kcal/hr

The KhELZ plans to start serial production of Freon compressors
with built-in motors AOL of 0.6 kw and having a capacity of 700
standard kcal/hr.

There are 3 sets of diagrams, 2 graphs, 1 table and 7 references,
4 of which are Soviet, 1 German, 1 English and 1 miscellaneous.

Card 3/3

EL'KIN, I., inzh.; ZELIKOVSKIY, I., inzh.; SHVARTS, I., inzh.

Strain gauges for hermetically sealed refrigerating compressors.
Khol. tekhn. 37 no. 6:18-21 N-D '60. (MIRA 13:12)

1. Khar'kovskoye opytno-konstruktorskoye byuro i zavod torgovogo
mashinostroyeniya Ukrtorgoborudovaniya.
(Strain gauges) (Compressors)

S/066/60/000/006/005/009
A053/A029

AUTHORS: El'kin, I., Zelikovskiy, I., Shwarts, I., Engineers

TITLE: Tensiometric Pressure Pickups for Hermetically Sealed Refrigerating Compressors

PERIODICAL: Kholodil'naya tekhnika, 1960, No. 6, pp. 18-21

TEXT: The laboratory of KhOKB and KhZTM has been engaged in developing pressure pickups and measuring devices for pressure indication in hermetically sealed refrigerator compressors. One of the basic elements of the pressure indicator, the working principle of which is briefly described, is the pressure pickup. Its sensitive element is a membrane, whose deformations are brought about by the glued-on wire tensiometer. The size of the membrane and the arrangement of the wire tensiometers are shown on Figure 1. Care must be taken that the deformations of the membrane due to pressure are not interfered with by deformations caused by temperature changes. By way of experiments it has been found that the best results are obtained with tape membranes of 10 mm in diameter and 0.25 mm thick or 15 mm x 0.3 mm or 19 mm x 0.4 mm. Property changes taking place in the glue due to tempera- ✓

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S/066/60/00C/006/005/009 ✓
A053/A029

Tensiometric Pressure Pickups for Hermetically Sealed Refrigerating Compressors

ture fluctuations are also to be considered. The design described provides for glue 5Φ-2 (BF-2). If the strain gage operates at 90 - 100°C, the polymerization of the glue should be conducted at 160 - 175°C. The indications of the pressure indicator fitted with a pickup which complies with above requirements are practically free from temperature interference. The amplitude characteristics of the pickup depend also on the arrangement of the wire-type tensiometers, of which one is the working tensiometer and the other the thermo-compensational tensiometer. Both tensiometers must be fastened to parts having the same coefficient of linear expansion and be located in a zone of equal temperature, which is the case as illustrated on diagram I: the working tensiometer is glued to the membrane in the center, the compensational tensiometer is parallel to the working tensiometer at the edge of the membrane. Both tensiometers are located in the cavity of the cylinder within reach of the hot Freon gases and oil. Another arrangement of the tensiometers is shown under II: the working tensiometer is fastened in the center of the membrane and the thermo-compensational tensiometer radially at

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A053/A029

Tensiometric Pressure Pickups for Hermetically Sealed Refrigerating Compressors

the edge of the membrane. This arrangement gives the best temperature compensation and the highest sensitivity of the indicator. An alternative arrangement is shown under III, in which however the distance between the two tensiometers is too large, which affects unfavorably the temperature compensation. In the same laboratory a resistance strip pickup, developed by VNIKHI, has been tested with a 19 mm x 0.4 mm membrane. Tests revealed absence of deformations within the limits of 0 to 16 atmospheres and stability of amplitude characteristics at temperatures ranging from 20 - 100°C. This pickup is used in the KhOBK laboratory for investigating hermetically sealed compressors at 1,500 rpm. The article mentions also pickups for determining pressure fluctuations in the suction and compression cavities of the cylinder head. A special solenoid device described in the article has also been developed in order to obtain pressures necessary for determining the scale of the oscillogram. The laboratory of KhOKB produces the wire tensiometers, which are employed in all pressure pickups. There are 2 diagrams, 1 graph and 5 Soviet references. ✓

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S/066/60/000/006/005/009
A053/A029

Tensiometric Pressure Pickups for Hermetically Sealed Refrigerating Com-
pressors

ASSOCIATION: Khar'kovskoye opytno-konstruktorskoye byuro i zavod torgovogo
mashinostroyeniya (Khar'kov Experimental Designing Bureau and
Trade Machinery Plant) ✓

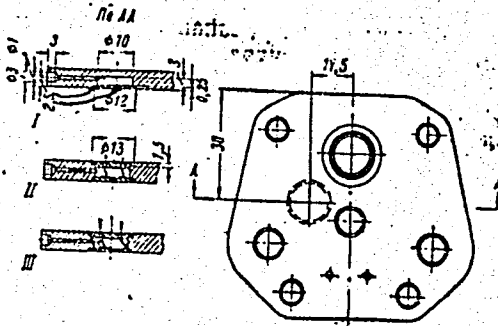


Figure 1:

Tensiometric pressure pickups for
small compressors

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ZELIKOVSKIY, I., inzh.; YAKOBSON, V., kand. tekhn. nauk

New compressor with a built in electric motor and a 700
kg-cal. per hr. refrigerating capacity. Khol. tekhn. 36 no.2:
11-15 Mr-Ap '59. (MIRA 12:8)

(Compressors)

14(1)

SOV/66-59-2-4/31

AUTHORS: Zelikovskiy, I., Engineer; Yakobson, V., Candidate of Technical Sciences

TITLE: New Compressor With Built-in Electric Motor With a Cold Production of 700 Standard kcal/hr (Novyy kompressor so vstroynym elektrodvigatelem kholodoproizvoditel'nost'yu 700 stand.kkal/chas)

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 2, pp 11-15 (USSR)

ABSTRACT: The KhZTM (Khar'kov Trade Machine Building Plant) has designed in cooperation with VNIKHI (All-Union Scientific Research Institute for Chemistry) a number of Freon compressors with built-in motor with a cast-iron shell and a horizontal shaft having a capacity of 400 - 1,500 standard kcal/hr. The KhZTM turned out a first lot of refrigerating units FAK-BS with the said compressors. Inspired by foreign models of compressors with built-in motors, the KhZMT in cooperation with VNIKHI has developed a variant and carried out tests with a new compressor, the 2FG-3.6/1.8 having a capacity of 700 standard kcal/hr. In this new design the vertical position of the eccentric shaft and the horizontal position of the cylinders which are set at an angle

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SOV/66-59-2-4/31

New Compressor With Built-in Electric Motor With a Cold Production of 700 Standard kcal/hr

of 90° have been adopted; the cylinder diameter is 36 mm, the piston stroke is 18 mm and the synchronous speed of revolution is 1,500 rpm. The 3-phase electric motor has been designed by the KhELZ (Khar'kov Electrotechnical Plant). Compressor and motor are enclosed in a shell consisting of 2 halves and made of stamped steel. The article describes in detail the design of the group, giving full particulars regarding cold producing capacity, power consumed and technical characteristics. The installation provides for thermoregulating valve ensuring the starting of the compressor under all conditions of temperature at boiling temperatures ranging from -30°C to 5°C, at condensation temperature of 60°C and also at voltage drops in the power supply net work attaining 20% of the nominal voltage. From the Table shown it is evident that the new compressors are superior to the previous models in regard to refrigeration capacity, which is 705 standard kcal/hr for the compressor 2FC-3.6/1.8 at a power consumption ratio of 1960 standard kcal/kwh; the weight of the compressor is 28 kg or 39.7 kg per 1,000 kcal/hr. To facilitate starting a special unloading device is designed.

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SOV/66-59-2-4/31

New Compressor With Built-in Electric Motor With a Cold Production of 700
Standard kcal/hr

The KhELZ plans to start serial production of Freon compressors
with built-in motors AOL of 0.6 kw and having a capacity of 700
standard kcal/hr.

There are 3 sets of diagrams, 2 graphs, 1 table and 7 references,
4 of which are Soviet, 1 German, 1 English and 1 miscellaneous.

Card 3/3

ZELIKOVSKIY, Il'ya Khaimovich; EL'KIN, Iosif Anatol'yevich; TSIPERSON,
A.L., red.; GROMOV, A.S., tekhn. red.

[Hermetically sealed refrigerating machines] Germetichnye kholodil'nye mashiny. Moskva, Gos.izd-vo torg.lit-ry, 1961. 190 p.

(MIRA 15:1)

(Refrigeration and refrigerating machinery)

L 40057-66 EWP(k)/EWT(d)/EWT(1)/EWP(h)/T-2/EWP(1)/SWP(f)/EWP(v) WH

ACC NR: AP6016941

SOURCE CODE: UR/0066/66/000/001/0022/0027

AUTHORS: Zelikovskiy, I. M.; Yakobson, V. B. (Candidate of technical sciences) 44
BORG: Zelikovskiy Khar'kov Factory of Commercial Machine Construction (Khar'kovskiy zavod torgovogo mashinostroyeniya); Yakobson All-Union Scientific Research Institute of the Refrigeration Industry (Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti)TITLE: New hermetic compressors and units 37

SOURCE: Kholodil'naya tekhnika, no. 1, 1966, 22-27

TOPIC TAGS: refrigeration, refrigeration equipment, compressor, air conditioning, control circuit

ABSTRACT: Some new equipment developed in the refrigeration industry is described. A series of unified hermetic compressors and units was developed in 1963 in the Laboratory of Small Refrigerating Machines VNIKhI, working in conjunction with a section of the Khar'khov Factory of Commercial Machine Construction (KKhZTM). The new machinery is capable of air cooling at the rate of 220--2800 kcal/hour. Among the machinery and units described are the FGK-0.45 unit, the VS 0.45 ~ 3 and VS 0.45K ~ 3 three-phase units with the compressor FG 0.45 ~ 3, and the single-phase units VS 0.45 ~ 1 and VS 0.45K ~ 1 with the compressor FG 0.45 ~ 1. Diagrams of the new machinery are shown, and certain details of the construction of the units are described. Additional information is given relative to the regulatory mechanisms and

UDC: 621.57.041.011

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L 40057-66

ACC NR: AP6016941

control circuitry. The operating characteristics, power requirements, efficiency, and other features of the new equipment are discussed and illustrated. Orig. art. has: 6 figures and 1 table.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 006

Card 2/2 *gd*

KASHUBA, B.P.; DONDE, V.N.; ZELIKOVSKIY, L.M.; KARMAZIN, E.I.;
KUT'KOV, G.M.; LINCHEVSKIY, V.V.; OGIY, G.Ye.; SEPITYI,
V.T.; SKVORTSOV, V.F.; BANNIKOV, S.A., red.; PESTRYAKOV,
A.I., red.; BALLOD, A.I., tekhn. red.; GUREVICH, M.M.,
tekhn. red.

[The T-75 tractor; design and operation] Traktor T-75;
ustroistvo i ekspluatatsiia. Moscow, Izd-vo sel'khoz. lit-
ry, zhurnalov i plakatov, 1961. 335 p. (MIRA 15:2)
(Tractors)

SERIKOV, I.A., inzh.; KASHUBA, B.P., inzh.; OGIY, G.Ye., inzh.; ZELIKOVSKIY, L.M.,
inzh.; KUT'KOV, G.M., inzh.

New T-75 KhTZ tractor for work at increased speeds. Trakt. i
sel'khoz mash. 30 no.6:5-9 Je '60. (MIRA 13:11)

1. Khar'kovskiy traktorny zavod.
(Tractors)

ZELIKOVSKIY, L.P., aspirant

Association of arsenopyrite, galenite, and merrillite-antimonate
mineralization in the Chagan-Uzun ore zone of the Gornyy Altai.
Izv. vys. ucheb. zav.; geol. i razv. 7 no.4:105-110 Ap '64.
(MIRA 18:3)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.

ZAVARINA, Mariya Vasil'yevna; YUDIN, Mikhail Isaakovich. Prinimali uchastiye: DMITRIYEVA-ARRAGO, L.R.; LOBANOVA, V.Ya.; BELOUSOV, S.L.; ZELIKOVSKIY, V.E.; POKROVSKAYA, T.V., otv. red.; GONDIN, L.S., otv. red.; VLASOVA, Yu.V., red.; IVKOVA, G.V., tekhn. red.

[Calculating machines and their use in meteorology and climatology] Schetnye mashiny i ikh ispol'zovanie v meteorologii i klimatologii. Leningrad, Gidrometeor. izd-vo, 1963. 263 p. (MIRA 17:3)

KASHUBA, B.P.; KOVAL', I.A.; VAKHTEL', V.Yu.; DONDE, V.N.;
YEREMENKO, B.S.; ZELIKOVSKIY, L.M.; KARMAZIN, E.I.;
LINGHEVSKIY, V.V.; OGIY, G.Ye.; SEPITYY, V.T.;
PESTRYAKOV, A.I., red.

[The T-74 tractor; its design, operation and maintenance]
Traktor T-74; konstruktsiia, ekspluatatsiia, ukhod. Mo-
skva, Kolos, 1964. 204 p. (MIRA 18:4)

ZELIKOVSKIY, Z. I. Cand Tech Sci -- (diss) "Study and development of methods and equipment for ~~the~~ comparative measurement of ~~the~~ electromotive force in metrological ~~practices~~." Len, 1957. 15 pp.

2 (Committee of Standards, Measures and Measuring Instruments under the Council of Ministers USSR. All-Union Sci Res Inst of Metrology in D. I. Mendeleev.) 100 copies.

(KL, 8-58, 105)

ZELIKOVSKIY, Z.I.

AUTHOR: Zelikovskiy, Z.I.

115-5-26/44

TITLE: A Method of Electronic Oscilloscope Application in A.C. Bridges
(Ob odnom sposobe primeneniya elektronnoogo ostsilloskopa v mostakh peremennogo toka)

PERIODICAL: "Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 59-60 (USSR)

ABSTRACT: The article deals with electronic oscilloscopes which are extensively employed as equilibrium indicators in a.c. bridges. Usually the voltage from the measuring bridge diagonal is being applied to one pair of deflector plates, and the auxiliary voltage applied to the second pair of plates is usually never adjusted in phase. The equilibrium state is marked by turning a straight line on the screen into a dot. The process of bringing a bridge into equilibrium requires a skilled operator and a long time. A method of bringing a.c. bridges into equilibrium with the use of an electronic oscilloscope is suggested which is claimed to speed up, simplify, and radically, change the process. The distinctive feature of the method consists in applying a partial shoulder-voltage to the second pair of plates instead of a full shoulder-voltage and in bringing the system in equilibrium by the way of changing of a resistance (see resistance R_4 in

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A Method of Electronic Oscilloscope Application in A.C.Bridges 115-5-26/44

Figure 4). Description of the method with computations involved is given in detail. As the experiments show, the measurement error in measuring the component resistances approximates 1%.

The article contains 2 electric circuit diagrams and 2 references (both Russian).

AVAILABLE: Library of Congress

Card 2/2

ZELIKOVSKIY, Z.I.

Comparator for standard cells. Trudy VNIIM no.31:44-52 '57.
(Standard cells) (MIRA 11:11)

ZELIKOVSKIY, Z.I.

Unsymmetrical half-balanced a.c. bridges. Trudy VNIIM no.38:
30-39 '59. (MIRA 13:4)
(Bridge circuits) (Electric measurements)

ZELIKOVSKIY, Z.I.

Effect of temperature on the comparison of standard elements. Trudy inst.
Kom. stand., mer i izm. prib. no.39:85-92 '60. (MIRA 14:3)
(Electric standards) (Electromotive force)

ZELIKOVSKIY, Z.I.

Using standard cells for the stabilization of small direct
currents. Izv. tekhn. no. 3:21-24 Mr '61. (MIRA 14:2)
(Standard cells) (Voltage regulators)

ZELIKOVSKIY, Z.I., kand.tekhn.nauk; ZUBOV, G.G., inzh.

Measurement under mass production conditions of the power and flux of incandescent lamps. Svetotekhnika 7 no.12:18-22 D '61.

(MIRA 14:12)

1. Nauchno-issledovatel'skiy institut elektropromyshlennosti, g. Kishinev, i L'vovskiy elektrolampovyy zaovd.
(Electric lamps, Incandescent)

DRABENKO, I.F., inzh.; ZELIKOVSKIY, Z.I., kand. tekhn. nauk

High-voltage instrument resistors from vitrified manganin
microwire. Elektrotehnika 34 no.11:62-63 N '63.

(MIRA 17:2)

ZELIKOVSKIY, Z.I., kand. tekhn. nauk; ZUBOV, G.G., inzh.; SERNIY, Ye.A., inzh.;
KONZELO, A.S., inzh.

AIL-1M device for checking the parameters of incandescent lamps.
Energ. i elektrotekh. prom. no.4:39-40 0-D '65.

(MIRA 19:1)

ZELIKOVSKIY, Z.I.; DEGTYAR', L.E.

Measuring the frequency error of resistors. Izv. vys. ucheb.
zav.; prib. 8 no.2:29-33 '65. (MIRA 18:5)

1. Kishinevskiy nauchno-issledovatel'skiy elektrotekhnicheskiy
institut.

ZELIKSON, A.G., inzh., SHERSTYUK, K.G., inzh.

Contactless device for measuring electric currents in rails.

Sbor. trud. DIIT no.39:89-92 '63.

(MIRA 18:4)

ZELIKSON, A.S., inzh.

Improved welding head for PDPG-type semiautomatic machines.
Sudostroenie 29 no.7:65 J1 '63. (MIRA 16:9)
(Electric welding—Equipment and supplies)

ZELIKSON, A.S., inventor.

Technology of manufacturing light bulkhead units. Sudostreemio 23 no.5:
53-54 My '57. (MIRA 10:6)

(Bulkheads (Naval architecture))

ZELIKSON, B. M.

ZELIKSON, B. M. -- "The Effects of Potassium, Sodium, and Calcium on the Carbohydrate Metabolism and Yield of Plants." Sub 30 May 52, Moscow Order of Lenin State U lmeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Biological Sciences).

SO: Vechernaya Moskva January-December 1952

KORENEVSKAYA, V.Ye.; ZELIKSON, B.M.

Agronomic investigation of the Dimitrov Collective Farm in Menzelinsk District, Tatar A.S.S.R. Vest.Mosk.un.Ser.biol., pochv., geol., geog. 14 no.4:71-82 '59. (MIRA 13:6)

1. Kafedra fiziki i melioratsii pochv, kafedra agrokhimii Moskovskogo universiteta.
(Agriculture)

ZELIKSON, B. M.

Defended his Candidates dissertation in the Biology - Soil Faculty of Moscow State University on 3 July 1952.

Dissertation: "The Influence of Potassium, Sodium, and Calcium on Hydrocarbon (Carbohydrate?) Metabolism and the Harvest of Crops."

SO: Vestnik Moskovskogo Universiteta, Seriya Fiziko-Matematicheskikh i Yestestvennykh Nauk, No. 1, Moscow, Feb 1953, pp 151-157: transl. in W-29782, 12 April 54, For off. use only.

KOCHETOV, V.S., inzh., ~~ZELIKSON, B.Z.~~

Experimental unit for controlling overhead cranes by radio. Mont.
i spets. rab. v stroi. 23 no.3:6-7 Mr '61. (MIRA 14:2)

1. Tsentral'noye proyektnc-konstruktorskoye byuro tresta Sevzapmon-
tazhautomatika. (Radio in industry) (Cranes, derricks, etc.)

ACC NR: AP6034920.

SOURCE CODE: UR/0115/66/000/008/0021/0023

AUTHORS: Zelikson, D. L.; Trokhan, A. M.

ORG: none

TITLE: Electron guns for gas-dynamics and plasma measurements

SOURCE: Izmeritel'naya tekhnika, no. 8, 1966, 21-23

TOPIC TAGS: electron gun, electron beam, gas dynamics, plasma, diagnostic instrument, plasma measurement

ABSTRACT: Electron guns for aerodynamic and plasma measurements are proposed. The first gun (see Fig. 1) consists of a housing, a cathode unit, an electromagnetic lens, and a gas-dynamics window. The housing is made of soft steel. The cathode is heated with ac or dc of 10-15 A. The voltage drop in the cathode is 1.5-2 V. The voltage on the focusing electrode is on the order of 10 V for an accelerating voltage of 2 kV and 400 V for an accelerating voltage of 50 kV. The pressure in the vacuum part is on the order of 10^{-3} N·m⁻². The electron energy of the beam is 2-50 keV. The beam current is 1 mA. The gun has a length of 410 mm, a maximum diameter of 140 mm, and a weight of 20 kg. The described guns have been used for measuring velocity and density fields and for visualization of currents.

Card 1/2

UDC: 533.6.083+533.9.07