

Zimelev, A.G.

USSR/Physics - Electric discharge

FD-893

Card 1/1 Pub 153-2/26

Author : Reyhrudel', E. M., Kustova, A. V., and Zimelev, A. G.

Title : Elementary processes during formation of a high-voltage impulse discharge at low pressures

Periodical : Zhur. tekhn. fiz. 24, 1179-1186, Jul 1954

Abstract : Impulse discharges at 50 to 110 kV and pressures of 10^{-4} to 10^{-1} mm Hg were studied on the oscillograph in helium, argon, air and Hg vapor. The gap between electrodes was varied from 5 to 17 cm. An essentially inhomogeneous density of positive space charge with a maximum near the cathode was observed in the discharge phase. The main role in the discharge formation at high current density in first and second phases is played by compensation of the negative space charge by positive ions along the whole discharge gap. Five references including 3 foreign

ZIMELEV, A. G.

REYKHRUDEL, E.M.; KUSTOVA, A.V.; ZIMELEV, A.G.

Elementary processes in the formation of high-voltage pulse
discharges at low temperatures. Zhur.tekh.fiz. 24 no.7:1179-1186
Jl '54. (MIRA 7:8)

(Electric discharges through gases)

ZIMELEV, Georgii Vladimirovich

1903-1962

1964

DECEASED

Automobile Engineering Research

SAFRONOV, V.I., tekhnik; ZIMIN, S. L.Sh., inzh.; KOZYULIN, A.S., inzh.;
KULESHOV, Ya.T., inzh.

Discussion of F.S. Popov's article "Construction of 6 to 10 kv
mast substations" and A.A. Priakhin's article "Is it proper to
transfer the line cutout of a 10 kv mast substation to the end
pole of an electric power transmission line?" Energetik 8
no. 10:22-24 0 '60. (MIRA 14:1)

(Electric lines--Overhead)
(Popov, F.S.)

(Electric substations)
(Priakhin, A.A.)

ZIMEL'S, L.Sh.

Safety in the use of electric household appliances. Prom.
energ. 19 no.5:58 My '64. (MIRA 17:6)

1. Ternopol'skiy oblproyekt.

MOLDAVANOV, V.L.; ZIMEL'S, L.Sh.

In regard to the term "equipment ground." Prem. energ. 16 no.8:
51-52 Ag '61. (MIRA 14:9)

1. Kremenchugskiy avtomobil'nyy zavod (for Moldavanov). 2.
Ternopol'skiy obiproekt (for Zimel's).
(Electric engineering--Terminology)

~~ZIMENKA, T.G.~~

Toxic effect of some peat bog soils on *Azotobacter chroococcum*. Vestsi
AN BSSR. Ser. biol. nav. no. 1:49-53 '57. (MIRA 10:6)
(*Azotobacter*) (Ptich' Valley--Peat Soils)

ZIMENKA, T. G.

ZIMENKA, T.G.

Distribution of Actinomyces in peat bog soils. Vestn AN BSSR. Ser.
biol. nav. no.2:61-66 '57. (MIRA 10:9)
(Actinomyces) (Peat soils)

ZIMENKO, B.K., insh.

Instillation of economic accountability in port sectoru. Rech. trans.
18 no.8:19 Ag '59. (MIRA 12:12)
(Inland water transportation--Accounting)
(Ships--Cargo)

ZIMENKOV, M., polkovnik

Greater demands are placed on the communist. Komm. Vooruzh. Sil 3
no.8:35-42 Ap '63. (MIRA 16:5)
(Russia--Armed forces--Political activity)

ZIMENKO, M. P., TEMEL, F. G. and FILIPPOV, N. V.

"Gas Separation at High-Yield and High-Pressure Gas Wells," Neft. khoz., No. 3,
1955

Translation D 197016

ZIMENKO, M. P.

AID P - 1770

Subject : USSR/Mining

Card 1/1 Pub. 78 - 8/26

Authors : Tempel', F. G., Filippov, N. V. and Zimenko, M. P.

Title : Gas separation in high-yielding and high-pressure gas wells

Periodical : Neft. khoz., v.33, no.3, 34-36, Mr 1955

Abstract : In order to prevent the impurities in the gas output of high-yielding and high-pressure gas wells from entering gas pipe-lines, special separators must be installed which will separate gas from water drops and sand. The author discusses some separators and points out the advantages of the cyclone-separator designed by the Central Scientific Research Laboratory. Tables

Institution: None

Submitted : No date

GUREVICH, L.S., montazhnik; ZIMENKO, N.A., montazhnik.

Light-duty screw jack with a capacity of 10 tons. Suggested by L.S.
Gurevich, N.A.Zimenko. Rats. i izobr. predl. v stroi. no.15:50 '60.
(MIRA 13:9)

1. Po materialam Zaporozhskogo stroitel'no-montazhnogo upravleniya
No.203 tresta Metallurgmontazh Ministerstva stroitel'stva USSR.
(Lifting jacks)

DZHUUVAGO, V.P.; ZIMENKO, P.M.

Conversion of home brick ranges from solid fuel to gas. Trudy
Inst.isp.gaza AN URSR no.6:112-115 '58. (MIHA 12:8)
(Stoves)

TARASOV, Viktor Savvich; ZIMENKO, P.M., inzhener, retsenzent; SERDYUK, V.K.,
inzhener, redaktor; LYKHOTA, N.A., tekhnicheskiiy redaktor

[Safety engineering manual for conveying machinery operators]
Pamiatka po tekhnike bezopasnosti dlia takelashnikov. Kiev, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 70 p. (MIRA 9:8)
(Conveying machinery--Safety measures)

USSR / Soil Science. Biology of Soils.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95735.

Author : Zimenko, T. G.

Inst : Institute of Biology AS USSR.

Title : Spread of Anaerobic Bacteria in Peat-Marsh Soils.

Orig Pub: Byul. In-ta Biol. AN SSSR, vyp. 2, 165-167,
1956 (1957).

Abstract: Anaerobic bacteria did not constitute a majority among the microflora of the soils investigated (maximum - 25-27.6% of the total number of bacteria in a peptone agar medium. The aerobic - anaerobic ratio fluctuated within the limits of 4:1 to 20:1, depending on the soil type (upper, transitional and lower). It is proposed that the

Card 1/2

USSR / Soil Science. Biology of Soils. J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95740.

Author : Zimenko, T. G.

Inst : Institute of Biology AS BSSR.

Title : Bac. mycoides in the Peat-Marsh Soils of the
Pticha River Block in the Belorussian SSR.

Orig Pub: Byul. In-ta biol. AN BSSR, vyp. 2, 1956 (1957)
168-172.

Abstract: No abstract.

Card 1/1

ZIMENKO, T. G. Cand Biol Sci -- ~~KL~~ (diss) "The Microflora of the Peat-and-Marsh Soils of the Ptich' Massif in the Belorussian SSR." Minsk, 1957. 48 pp 22 cm. (Academy of Sciences Belorussian SSR, Inst of Biology), 100 copies (KL, 26-57, 106)

- 2 30 -

USSR / Soil Science. Biology of Soils.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95738.

Author : Zimenko, T. G.

Inst : AS BSSR.

Title : Spread of Actinomyces in Peat-Marsh Soils.

Orig Pub: Vestzi AN BSSR, Ser. biyal. n., Izv. AN BSSR.
Ser. biol. n., 1957, No 2, 61-67.

Abstract: Virgin soils of upper and transitional types, which are characterized by a depression of the decay processes of organic substances, are weak in actinomyces. Reclaimed and cultivated lowlands with heavy processes of mineralization proved to be uniquely rich in actinomyces. Species of actinomyces isolated from cultivated lowlands possessed a higher antibiotic activity in comparison

Card 1/2

USSR / Soil Science. Biology of Soils.

J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95736.

Author : Zimenko, T. G.

Inst : AS USSR.

Title : Microorganisms as an Indicator of the Development of Mineralization Processes in Peat-Marsh Soils.

Orig Pub: Izv. AN SSSR, Ser. biol., 1957, No 2, 234-240.

Abstract: The group composition of the microflora of peat-marsh soils of various types reflects the development in them of mineralization processes. Energetic mineralization is characterized by intensive reproduction of nonsporogenous bacteria, by an increase in the number of sporogenous bacteria, actinomyces and nitrifactors. -- Yu. A. Vladimirov.

Card 1/1

ZIMENKO, T.G.

Distribution of *Penicillium* in peat bog soils [with summary in English]. Mikrobiologiya 26 no.6:756-761 H-D '57. (MIRA 11:3)

1. Institut biologii AN BSSR, Minsk.

(PENICILLIUM,

in peat & marshy soils (Rus)

(SOIL, microbiology,

Penicillium in peat & marshy soils (Rus)

ZIMENKO, T.G.; KABAYLOVA, I.V.

Effect of the application of herbicides in soil on the change
in the qualitative composition of fungi of the genus *Penicillium*.
Bot.; issl. Bel. otd. VBO no.5:177-179 '63. (MIRA 17:5)

MASHTAKOV, S.M.; GURINOVICH, Ye.S.; ZIMENKO, T.G.; KABAYLOVA, I.V.

Action of herbicides on soil microflora. Mikrobiologiya 31
no.1:85-89 Ja-F '62. (MIRA 15:3)

1. Institut biologii AN BSSR.
(HERBICIDES)
(SOILS—MICROBIOLOGY)

ZIMENKO, T.G.

Mold fungi of the genus *Penicillium* in forest soils. Biol.
Inst. biol. AN BSSR no.5:333-337 '60. (MIRA 14:7)
(PENICILLIUM) (MINSK PROVINCE--FOREST SOILS)

ZIMENKO, T.G.; GURINOVICH, Ye.S.; KABAYLOVA, I.V.

Fungal flora of sapropels in Bol'shoye Svyatoye Lake, Vitebsk
Province, White Russian S.S.R. Mikrobiologiya 30 no.6:1084-1087
N-D '61. (MIRA 14:12)

1. Institut biologii AN BSSR, Minsk.
(BOL'SHOYE SVYATOYE LAKE—SAPROPELS—MICROBIOLOGY)
(PENICILLIUM) (ASPERGILLUS)

ZIMENKO, T.G.

Some characteristics of the cultivation of *Bacterium prodigiosum*
under laboratory conditions. Biol. Inst. biol. AN ESSR no.5:338-341
'60. (MIRA 14:7)

(SERIATIA MARCESCENS)

ZIMENKO, V.; KIRILENKO, V.; MOGAN, S.M., red.; BAKHTIYAROV, A., tekhn.red.

[Margelan silk] Margelanskii shelk. Tashkent, Gos.izd-vo UzSSR,
1959. 53 p. (MIRA 13:4)
(Margelan--Silk manufacture)

ZIMENKO, Vladimir Vasil'yevich; GIMERL'FARB, N., red.; ABBASOV, T.,
tekhn. red.

[The competition of youth] Estafeta iunosti. Tashkent, Gos-
izdat UzSSR, 1961. 76 p. (MIRA 15:7)
(Uzbekistan--Socialist competition)

ZIMENKO, Vladimir Vasil'yevich; ANATOL'YEV, Konstantin [author's
real name Anatoliy Nikolayevich Kudinov]; ARKAD'YEVA, A.,
red.; BABAKHANOV, A., tekhn. red.

[Heroes of desert horizons] Gerol pustynnykh gorizontov.
Tashkent, Gosizdat UzSSR, 1962. 42 p. (MIRA 16:5)
(Ust-Urt--Gas, Natural)

ZIMENKO, Vladimir Vasil'yevich; TARASOV, V., red.; BAKHTIYAROV, A.,
tekhn. red.

[In six hours instead of seven; practices of the brigade of communist labor of the Akhunbabaev Clothing Factory in Kokand] Sem' za shest'; opyt brigady kommunisticheskogo truda Kokandskoi shveinoi fabriki im. Akhunbabaeva. Tashkent, Gos.izd-vo Uzbekskoi SSR. 1961. 43 p. (MIRA 15:1)
(Kokand--Clothing industry--Labor productivity)

ZIMENKO, Vladimir Vasil'yevich; GR-MEL'FARB, N., red.; ABRASOV, T.
← tekhn. red.

[People with character:] Liudi s kharakterom. Tashkent, Gos.
izdat UzSSE, 1961. 34 p. (MIRA 15:7)
(Akhan-Garan—Construction workers)

ZIMENKOV, A. P., BURKIN, G. A.

A Possibility of Using Seawater For Food Preparation on Ships Met With
an Accident While at Sea.

VOYENNO-MEDITSINSKIY ZHURNAL (MILITARY MEDICAL JOURNAL) No 12, 1955 p. 42

~~ZIMMERMAN, A.P.~~, mayor med.slushty, BUKHTIN, G.A., mayor med.slushty

Possibility for using ocean water in cooking aboard ship under
emergency conditions. Voen.med.shur. no.12:42-45 D '55 (NIRA 12:1)
(COOKERY, MARINE)
(SEA WATER)

RED'KO, V.M.; ZIMENKOV, I.A.

Hand-operated small worm tackle. Suggested by V.M.Red'ko, I.A.Zimenkov.
Rats. i izobr. predl. v stroi. no.15:55-56 '60. (MIRA 13:9)

1. Po materialam Stroitel'no-montazhnogo upravleniya No.203 testa
Metallurgmontazh Ministerstva stroitel'stva USSR.
(Hoisting machinery)

ZIMENKOV, I.A.; RED'KO, V.M.; TITOVSKIY, F.I.; PILYUGINA, I.I.; SAVUN, N.M.

Hydraulic press for stamping spherical bottoms of containers. Suggested
by I.A.Zimenkov, V.M.Red'ko, F.I.Titovskii, I.I. Piliugina, N.M.Savun.
Rats. i izobr. predl. v stroi. no.15:39-40 '60. (MIRA 13:9)

1. Po materialam tresta Metallurgmontash Ministerstva stroitel'stva
USSR.

(Hydraulic presses)

(Containers)

ZIMENKOV, M. polkovnik

The officer's field of view. Komm. Vooruzh. Sil 46 nr. 16:40-46 4g
'65. (MIRA 18:8)

ZIMENKOV, M., polkovnik

The Communists are noted for their adherence to principles. Komm.
Vooruzh.Sil 1 no.7:40-46 Ap '61. (MIRA 14:8)
(Communists) (Russia--Armed forces--Political activity)

ZIMENKOV, M., polkovnik

A pressing problem. Komm. Vozrozh. Sil 2 no. 9:42-47 My '62.

(MIRA 15:5)

(Russia--Armed forces--Political activity)

ZIMENKOV, M., podpolkovnik.

Personally responsible. Komm. Voorush. Sil 46 no. 12:90-93 Je '65.
(MIRA 18:10)

DUROV, V., polkovnik; ZIMENKOV, M., polkovnik

Social principles and life. Komm. Vooruzh. Sil 46 no. 23:23-30
D '65. (MIRA 18:12)

ANASTASIYEV, P.I.; BROSTREY, A.A.; VESHENEVSKIY, S.N.; GEL'MAN, G.A.;
GORNISHTYEN, L.A.; ZIMENKOV, M.G.; KARVOVSKIY, G.A.;
KIBLITSKIY, V.A.; KLEYIN, P.N.; KLIMIKSEYEV, A.I.; KLYUYEV,
S.A.; KNORRING, G.M.; KORENEVSKIY, A.N.; LEYF, N.Ya.I.;
LIVSHITS, D.S.; LIGETMAN, I.I.; LOGINOV, O.I.; MILICH, M.B.;
NAYFEL'D, M.R.; OKOROKOV, S.P.; POLYAK, A.B.; ROYZEN, S.S.;
RYABOV, M.S.; SINITSIN, O.A.; SOLODUKHO, Ya.Yu.; SOSKIN, E.A.;
STASYUK, V.N.; BOL'SHAM, Ya.M., red.; GRACHEV, V.A., red.;
SAMOVER, M.L., red.; BORICHEV, I. Ye., red.; DANILENKO, A.I.,
red.; KHRAMUSHIN, A.M., red.; YAKUBOVSKIY, F.B., red.;
BRENDENBURGSKAYA, E.Ya., red.; KOMAR, M.A., red.; BORUNOV,
N.I., tekhn. red.

[Handbook on electrical systems of industrial enterprises
in four volumes] Spravochnik po elektroustanovkam promyshlen-
nykh predpriatiy v chetyrekh tomakh. Pod obshchei red. I.E.
Boricheva i dr. Moskva, Gosenergoizdat. Vol.1. [Design of
electrical systems of industrial enterprises in two parts]
Proektirovanie elektroustanovok promyshlennyykh predpriatiy
v dvukh chastiakh. Pt.2. Pod red. I.A.M.Bol'shama i dr.
1963. 598 p. (MIRA 17:3)

GAUZE, G.F.; VLADIMIROVA, G.B.; ZIMENKOVA, L.P.; LANDAU, N.S.

Study of the antibiotic properties of mutants of micro-organisms with oxidation defects. Antibiotiki 8 no.12:1082-1085 D '63.

(MIRA 17:10)

1. Institut po izyskaniya novykh antibiotikov AMN SSSR.

KOCHETKOVA, G.V.; KUDINOVA, M.K.; ZIMENKOVA, L.P.; BIBIKOVA, M.V.

Some physiological characteristics of Staphylococcus and
Bacterium paracoli mutants with an oxidation defect.

Mikrobiologiya 33 no.4:587-592 J1-Ag '64.

(MERA 18:3)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

TSIMERMAN, I.Z. [Zimerman, I.Z.]

Mechanization of fan painting in mass production. Lakokras.mat.
1 ikh prim. no.3:78-79 '62. (MIRA 15:7)
(Electric fans) (Painting, Industrial)

ACC NR: AP6035899

SOURCE CODE: UR/0413/66/000/020/0140/0141

INVENTOR: Zimenkov, V. I.

ORG: None

TITLE: Aerodynamic extensometric balance. Class 42, No. 187366

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 140-141

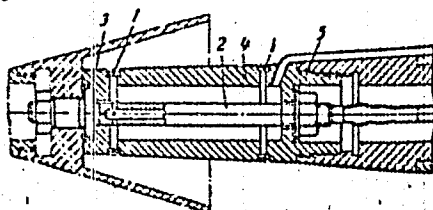
TOPIC TAGS: strain gage, pressure measuring instrument

ABSTRACT: This Author's Certificate introduces an aerodynamic extensometric balance containing a hollow Dural cylinder, sensing elements made from a plastic material with attached strain gauges, and a device for stabilizing the operating temperature conditions of the plastic sensing elements and strain gauges. The unit is designed to produce a high natural oscillation frequency with rapid damping to increase the measurement accuracy. Provision is also made for increasing the signal from the strain gauges by adding the longitudinal and transverse effects of strain sensitivity. The sensing elements are made in the form of a trapezoid with a sector cut in the lower base. These elements are held with a tie bolt in three individual rigid Dural cylinders, and their outer surfaces are subjected by the force being measured to simultaneous compression or tension in two mutually perpendicular directions.

Card 1/2

UDC: 531.781 681.269.99

ACC NR: AP6035899



1—sensing elements; 2—
tie bolt; 3-5—Dural
cylinders

SUB CODE: 13, 14/ SUBM DATE: 26Mar65

Card 2/2

ARNAUTOVSKI, M., inz.; BOZIC, Al.; JEZIC, Kr., inz.; TABAIN, T., inz.;
ZIMIC, J., inz.

Testing the fireproof lifeboat Graben in the fire. Pt.1.
Brodogradnja 14 no.6:215-226 '64.

ACC NR: AP5024599

UR/0114/d5/000/001/0021/0023

621.822.62-135:536.5

AUTHOR: Aleksandrovskiy, G.G. (Engineer); Leshchinskiy, G.A. (Engineer); Zimichev, Yu. I. (Engineer)

TITLE: Measurement of the bearings of KhTGZ im. S.M. Kirov turbine

SOURCE: Energomashinostroyeniye, no. 9, 1965, 21-23

TOPIC TAGS: resistance thermometer, temperature measurement, turbine, temperature instrument

ABSTRACT: The increase in turbogenerator power and the introduction of remote control of units from a central panel made it necessary to have accurate remote measurement of the temperature of bearing babbits. For the purpose, according to the technical specifications of KhTGZ im S.M. Kirov turbine bearings, L'vov "Termopribor" design bureau (L'vovskoye Konstruktorskoye Byuro "Termopribor") developed the TSP-309 resistance thermometer in 1959. The device, produced by the enterprise of L'vov SNKh, satisfies the 665-59 GOST.

art. has: 2 formulas and 4 figures.

Card 1/2

09011596

L 4516-66

ACC NR: AP5024599

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: TD, IE

NO REF SOV: 001

OTHER: 000

ALEKSANDROVSKIY, G.G., inzh.; ZIMICHEV, Yu.I., inzh.; ZINGERMAN, I.I., inzh.

Device for measuring the eccentricity of steam turbine rotors.
Energomashinostroenie 11 no.4:42-43 Ap '65. (MIRA 18:6)

ALEKSANDROVSKIY, G.G., inzh.; LESHCHINSKIY, G.A., inzh.; ZIMICHEV, Yu.I.,
inzh.

Measurement of bearing temperature of turbines manufactured by the
Kharkov Turbogenerator Plant. Energomashinostroenie 11 no.9:21-23
S '65.
(MIRA 18:10)

ZIMIN, A.; SHAMANAYEV, V., aspirant

Drawing up district plans. Sel'. stroi. 16 no.9:13-15 S '61.
(MIRA 14:9)

1. Glavnyy inzhener proyekta instituta Sevkavgiprosel'khozstroy
(for Zimin). 2. Moskovskiy institut zemleustroystva (for
Shamanayev).

(Regional planning)

ZIMIN, A.

Automatization in the enterprises of the building materials industry.
Strel.mat.izdel.i konstr. 2 no.3:4-7 Mr '56. (MIRA 9:7)

1. Upravlyayushchiy trosten "Soyusteplekntrol".
(Building materials industry) (Automatic control)

L 3551-66 EWT(d)/EWT(m)/ENP(r)/ENP(t)/ENP(k)/ENP(h)/ENP(b)/ENP(i)/EWA(c) JD/INT
 ACCESSION NR: AP5024435 UT/0286/05/000/015/0146/0146

AUTHORS: Zimin, A. I.; Kagarmanov, A. F. 29

TITLE: Pulsed hydraulic press-hammer. Class 58, No. 173608 3

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1963, 146

TOPIC TAGS: hydraulic equipment, metal press 14

ABSTRACT: This Author Certificate presents a pulsed hydraulic press-hammer provided with a pulsed valve and a pipe with a diameter equal to the inside diameter of the cylinder. To increase the effectiveness of operation and to decrease the size, the pedestal of the press-hammer is in the form of a closed force frame with a hydraulic reflector, and the operating pipe is in the form of a coil (see Fig. 1 on the Enclosure). Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 03Dec63

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 1/2

L 3551-66

ACCESSION NR: AP5024435

ENCLOSURE: 01

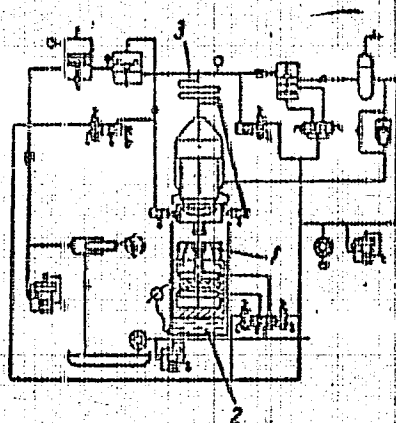


Fig. 1.

1- force frame; 2- hydraulic reflector; 3- coil

Card 2/2

ZIMIN, Aleksy Alekseyevich; NOVIKOVA, M.M., ved. red.; FEDOTOVA,
I.G., tekhn. red.

[Hydraulic calculations for petroleum products pipelines and
pumping stations; a reference manual] Gidravlicheskie rasche-
ty nefteproduktoprovodov i nasosnykh stantsii; spravochnik.
Moskva, Gostoptekhizdat, 1962. 108 p. (MIRA 15:10)
(Petroleum--Pipelines)

ZIMIN, A. A., KOROLIUK, V. D.

Russia - Foreign Relations

"Foreign policy of the Russian centralized state; 2nd half of the 15th century.
K. V. Bazilevich, Reviewed by A. A. Zimin, V. D. Koroliuk. Sov. kniga no. 3, 1953.

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

LEVITAN, Kh.N., prof.; SHUMAKOV, I.A.; ZIMIN, A.A.

Testing the absorption of radioiodine by the thyroid gland in
nephritis. Sbor. trud. Kursk. gos. med. inst. no.16:225-229
'62. (MIRA 17:9)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof.
Kh.N. Levitan) Kurskogo meditsinskogo instituta.

VASIL'YEVA, A.B.; ZIMIN, A.I.

Asymptotic behavior of certain classes of differential equations
with a small parameter at a higher derivative. Vest. Mosk. un.
Ser. 1: Mat., mekh. 19 no.4:21-29 J1-Ag '64. (MIRA 17:8)

1. Kafedra matematiki fizicheskogo fakul'teta Moskovskogo
universiteta.

ZIMIN, A. B.

PHASE I BOOK EXPLOITATION

SOV/6277

Karol', I. L., and S. G. Malakhov, Candidates of Physics and Mathematics, eds.

Voprosy yadernoy meteorologii; sbornik statey (Problems in Nuclear Meteorology; a Collection of Articles) Moscow, Gosatomizdat, 1962. 271 p. Errata slip inserted. 2600 copies printed.

Ed.: A. I. Zavodchikova; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: The book is intended for meteorologists and physicists specializing in the physics of the atmosphere. It may also be of interest to oceanographers concerned with the contamination of seas and oceans with radioactive waste products.

COVERAGE: This is a collection of 15 articles dealing with various problems of nuclear meteorology. The rapid development of the methods of radiometry opened the possibility of measuring minute particles of radioactive substances

Card 146

1/3

Problems in Nuclear Meteorology (Cont.)

SOV/6277

with a great degree of accuracy. This again made it possible to use radioactive isotopes in various fields of science, including meteorology. Tests of nuclear arms and the dispersion into the atmosphere of the waste of atomic industry necessitated a thorough investigation of the patterns of the spread of aerosols and gases, sometimes throughout almost the entire atmosphere. Such investigation is connected with the wide use of the newest methods and results of meteorology and the physics of the atmosphere in general. On the other hand, the distribution in the atmosphere of air masses, labeled with radioactive atoms, gives the meteorologists a new method for the study of atmospheric processes. The entire complex of problems related to the study of the distribution of radioactive impurities in the atmosphere and the use of radioactive atoms as labels in air masses or clouds has lately received the name of "nuclear meteorology" and is regarded as a branch of the physics of the atmosphere. The present collection contains some general articles, as well as articles reporting on the results of special investigations of certain problems of nuclear meteorology conducted in 1960-1961. It is divided in three sections, each dealing with a certain type of problem of nuclear meteorology. Bibliographic references are included at the end of individual articles.

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2/3

Problems in Nuclear Meteorology (Cont.)

SOV/6277

Kirichenko, L. V. Vertical Distribution of the Decay Products of Radon in the Free Atmosphere

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ATMOSPHERE BY PRECIPITATION

Zimin, A. B. Mechanism of Capture and Deposition of Atmospheric Impurities by Clouds and Precipitation

116

Malakhov, S. G., and L. D. Solodikhina. Washout of the Decay Products of Radon From the Atmosphere by Rain

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Card 4/6

3/3

CHINAKAL, N.A., professor, redaktor; GORBACHEV, T.F., professor, redaktor;
BIRYUKOV, R.A., inzhener, redaktor; ZIMIN, A.F., redaktor; PROZOROV-
SKAYA, V.L., tekhnicheskii redaktor; ALADOVA, Ye.I., tekhnicheskii
redaktor

[Improving the shield system in mining; from materials of the
Prokop'yevsk meeting of November 15-16, 1952] Sovershenstvovanie
shchitovoi sistemy razrabotki; po materialam soveshchaniia, sostoiav-
shegosia v Prokop'evske 15-16 noiabria 1952 g. Ugletekhnizdat, Moskva,
1954. 171 p. (MIRA 8:4)

(Coal mines and mining)

117 AND 119 (REPS) 118 AND 119 (REPS) 117 AND 119 (REPS) 118 AND 119 (REPS)

PROCESSES AND PROPERTIES INDEX

2

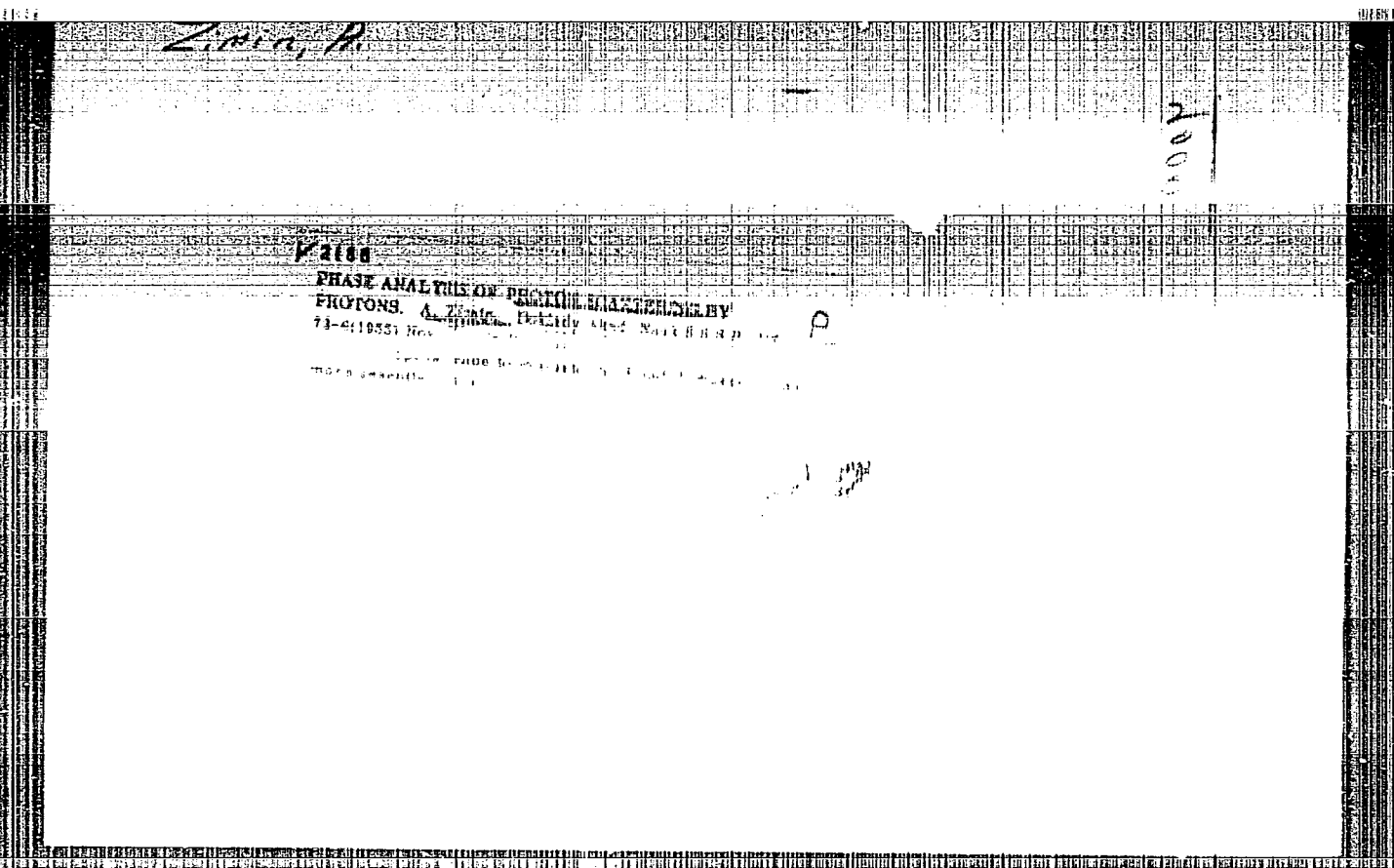
Reversal of the sign of charge of activated charcoal in an atmosphere of oxygen. N. A. Bak and A. Zimin. *Acta Physicochim. U. R. S. S. 7, 151 8 (1957) (in English); cf. C. A. 27, 6007.* The reversal of sign of pos. charcoal in dil. alk. soln. in air is due to the formation of surface oxides. If the possibility of this oxidation is eliminated, no reversal of sign is observed. The charcoal remains pos when treated with O at room temp. either as a dry powder or as a suspension in H₂O. W. George Parks

458-564 METALLURGICAL LITERATURE CLASSIFICATION

117 AND 119 (REPS) 118 AND 119 (REPS) 117 AND 119 (REPS) 118 AND 119 (REPS)

ZIMIN, A.

"Electrochemistry of Platinum Sols." IV. The particle charge of hydrogen-platinum
sols. Acta Phys. Vol. XI. No. 1, 1939. The Karpov Inst. of Phys. Chem., Moscow.



PHASE I BOOK EXPLOITATION 20V/3722

Moscow. Vysshaye tekhnicheskoye uchilishche

Mashiny i tekhnologiya obrabotki metallov davleniyem; sbornik statey (Machinery and Processes for the Pressworking of Metals; Collection of Articles) Moscow, Mashgiz, 1960. 246 p. (Series: Itel Trudy, VPD. 98) Irata slip inserted. 3,500 copies printed.

Ed.: A.I. Zimin, Doctor of Technical Sciences, Professor; Z.I. of Publishing House; O.P. Gerasimov, Tech. Ed.; T.F. Lashkova; Z.I. Gerasimov, Editor; Z.I. Gerasimov, Engineer.

PURPOSE: This collection of articles is intended for workers in scientific research institutions and in die-forging shops, and for engineering students.

COVERAGE: The book contains papers from the Department of Machines and Processes for the Pressworking of Metals of the MVTU (Moscow Higher Technical School imeni N.E. Bauman). The papers deal with

theoretical and practical aspects of metal pressworking and with the theory and practice of forging machines and press design. These papers deal with machine hydraulics (selection of drives of presses, pressure in cylinders). A design of a hydraulic power-screw type "press-hammer", which can work as a percussion press or forging press, is presented. Problems of the theory of plastic deformation in forging, upsetting, and forming are also analyzed. Reference cards (Nos. 33 to 49) are appended to explain problems of plastic deformation. The papers are particularly detailed. These cards are the continuation of cards published in collection No. 79 of the MVTU, 1957. No personalities are mentioned. References accompany most of the articles.

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Turba, L.M. On Certain Methods of Obtaining Pulsating Deforming Forces 78

Boydakov, E.P., Engineer. Selection of Fluid Pressure in Designing Hydraulic Presses 85

Zimin, A.I., and M.Z. Dobrynskiy, Candidate of Technical Sciences. Utilization of the Effective Capacity of Direct (Power) Press-Driven Presses 107

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Gerasimov, Ye.I., Candidate of Technical Sciences, Docent. Forging of Inner Races for Tapered Roller Bearings on Upsetters in a Sliding Die With Upsetting During Piercing 147

Kashkavich, E.Ye, Engineer. Analysis of Processes of Axially Symmetrical Deformation of Hollow Bodies 174

Matsvey, A.D., Candidate of Technical Sciences. Experimental Investigation of Various Methods of Sheet-Metal Forging 201

Melitskany, A.A., Candidate of Technical Sciences. History of the Development of the Soviet Pressworking Industry 203

Zimin, A.A., Editor. Reference Cards on the Theory of Plastic Deformation, Cards 33-49. 217

AVAILABLE: Library of Congress

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ZIMIN, A.G.

USSR/Nuclear Physics - Structure and Properties of Nuclei.

C-4

Abs Jour : Ref Zhur - Fizika, No 4, 1957, 8759

Author : Zimin, A.G., Yashin, N.M.

Inst :

Title : Quadruple Moment of U^{233} Nucleus.

Orig Pub : Dokl. AN SSSR, 1956, 109, No 2, 283-284

Abstract : The method of optic atomic spectroscopy is used to investigate the fine structure of the lines of neutral and ionized U^{233} atoms. Approximately 50 lines with a six-component hyperfine structure have been found, thus confirming the previously-established values of the spin of the U^{233} nucleus, $I = 5/2$. From the structure of the spark lines, the lower levels of which belong to the configuration $5f^3 6d7s$, an estimate is made of the value of the quadrupole interaction of the electron shell with the nucleus. The sign of the optical quadrupole moment of the U^{233} nucleus is positive; the value of the moment is approximately $13 \times 10^{-24} \text{ cm}^2$ (accuracy approximately 40%).

Card 1/1

ZIMIN, A. G.

56-5-36/55

AUTHOR
TITLE

ZIMIN, A.G.

The Correlation of the Polarizations at the Scattering of Nucleons by Nucleons.

(Korrelatsiya polarizatsiy pri rasseyanii nuklonov nuklonami - Russian)

PERIODICAL

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 5, pp 1226-1232 (U.S.S.R.)

ABSTRACT

The paper under review determines the formulae for the correlation of the polarizations at the scattering of protons by protons, taking into account the four phases $1s_0, 3p_0, 3p_1, 3p_2$, and the Coulomb's interaction. The phases belong to the orbital moments $l=0$ and $l=1$ ($J=0, 1, 2$).

Derivation of the formulae: The correlation of the polarizations is defined at the scattering of two particles as the mean value of the operator $P_{ik} = \delta_{(1)}^{(1)} \delta_{(2)}^{(2)}$ in a scattered wave. In order to be able to express P_{ik} by the scattering phases (in accordance with the method of phase analysis), the author of the paper under review examines the asymptotic expression of the wave function at the scattering of a plane spin wave. First of all, the paper under review investigates the scattering of unpolarized particles. With the aid of the scattering matrix consisting of 16 amplitudes it is possible to express all magnitudes characterizing the scattering: the cross section, the polarization, and the correlation of the polarizations. For the complete determination of the scattering matrix one needs to know the phases. First of all, the scattering of two protons is investigated (the n-n scattering results from the general

Card 1/2

ZIMIN, A.G.

AUTHOR
TITLE

ZIMIN, A.G.

56-5-40/55

Application of Correlations of the Polarizations in the
Phase Analysis of P-P Scattering.
(Primeneniye korrelyatsii polarizatsiy v fazovom analize
P-P rasseyaniya.- Russian)

PERIODICAL

Zhurnal Eksperim. i Teoret. Fiziki 1957, Vol 32, Nr 5,
pp 1239-1240 (USSR)

ABSTRACT

Recently experiments were conducted at Berkeley with regard to triple scattering of protons of 310 MeV by protons. The two magnitudes measured in these experiments characterize the change of polarization of the one interacting particle at subsequent scattering. These two magnitudes are the depolarization D and the rotation of polarization R. Thus we have, together with the scattering cross section and with the amount of polarization, four independent magnitudes characterizing the scattering matrix. The phase analysis, as conducted by means of the magnitudes mentioned here, yields five possible sets of possible phases with the moments $l \leq 4$. This ambiguity is caused by the circumstance that the four magnitudes mentioned do not correspond to any complete set of

CARD 1/3

56-5-40/55

Application of Correlations of the Polarizations in the
Phase Analysis of P-P Scattering.

experiments. In order to make the phase analysis unambiguous, additional experiments are required: the triple scattering using a magnetic field, or the correlation of the polarizations. But the application of a magnetic field at the triple scattering does not lead to a complete unambiguity of phase analysis. As shown in the computations subsequently listed in the paper under review, the amounts of the correlation of the polarizations, corresponding to different sets of phases, differ very strongly from each other. This makes possible to completely separate the mentioned sets, if only one correlation of the polarizations is measured.

It is possible to measure the correlation of the polarizations, i.e.

$$\langle \sigma_i^{(1)} \sigma_k^{(2)} \rangle \quad (i, k = x, y, z)$$

at double scattering of protons by protons. In this context, the two magnitudes

CARD 2/3

56-5-40/55

Application of Correlations of the Polarizations in
the Phase Analysis of P-P Scattering.

$$\sigma_I = \sigma_{yy} - \sigma_{y'y'} \text{ and } \sigma_{II} = \sigma_{xz} \cos 2\theta + (1/2)(\sigma_{xx} - \sigma_{zz})$$

$\sin 2\theta = \sigma_{x'z'}$ are measured directly, with θ denoting
the scattering angle in the laboratory system of coordi-
nates. The apostrophes denote here the system of coordina-
tes with the axes x' and z' , being directed parallelly to
the impulse of the two scattered particles. The results
of the computation of σ_I from the corresponding phase
sets are shown in a diagram. The results of the computation
of σ_I are less sensitive with respect to the different
sets than the results obtained for σ_{II} .

(1 chart, 1 reproduction)

ASSOCIATION: not given.
PRESENTED BY: -
SUBMITTED: 14.12. 1956
AVAILABLE: Library of Congress.

CARD 3/3

~~ZIMIN, A.G.~~

Measurement of polarized quantities. Zhur. eksp. i teor. fiz. 33
no.5:1300 N '57. (MIRA 11:3)
(Nucleons--Scattering)

AUTHOR: Zimin, A.G. 56-5-38/46

TITLE: On Measuring Polarized Quantities (Ob izmerenii polyarizatsionnykh velichin)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 5, pp. 1300-1300 (USSR)

ABSTRACT: When determining the polarization $\langle \sigma_i \rangle$ and the polarization correlation $\langle \sigma_i \sigma_k \rangle$ in nucleon-nucleon scattering, practically the integral nucleon intensity which is scattered secondarily by the nucleus analyzer, is measured. It is theoretically shown in short in what way the polarization formulae for "punctiform" intensities in integration with respect to the solid angle behave or change respectively. There are 2 Slavic references.

SUBMITTED: June 27, 1957

AVAILABLE: Library of Congress

Card 1/1

ZIMIN A.I.

18(0)

PLANE I BOOK EXPLOITATION 807/2316

Академия наук СССР. Институт машиностроения и технологии информации

Металлургия СССР, 1977-1978 [т. II] (Metallurgy in the USSR, 1977-1978: Vol. 2) Moscow: Metallurgizdat, 1979. 813 p. Errata slip inserted. 3,000 copies printed.

Ed. (title page): I. P. Bardin, Academician; Ed. (inside book): G. V. Popenko; Tech. Ed.: P. O. Isakovich.

PURPOSE: This book is intended for metallurgists.

COVERAGE: The articles in this collection present historical data on the achievements of Soviet metallurgy, both ferrous and nonferrous, during the period 1917-1977. Advances in theory and practical application are thoroughly discussed. Many of the articles describe the present status of individual branches of metallurgy and give an idea of what may be expected in the future. Advances made in other countries are also discussed. The articles are accompanied by a large number of references. For further coverage, see Table of Contents.

Plashchinskii, Candidate of Technical Sciences; and A. G. Ziminov, Candidate of Technical Sciences. (Institute of Metallurgy, Lenin A. A. Baryev, Lenin Academy of Sciences) Achievements in Railroad Steel and Tire Production 101
Changes in engineering specifications and improvements in production techniques and quality of tires and other wheels in the USSR since 1940 are discussed. Further progress in this field is predicted.

Zimin, A. I., Professor, Doctor of Technical Sciences. (MVTU) Forging and Stamping Methods 113

This is a historical survey of developments in forging and stamping processes in Russia from pre-revolutionary times up to 1977.

Levi, I. I., Candidate of Technical Sciences. (Moscow Institute of Machine Design) Production of Castings 121

The paper traces the general course of development and discusses problems in the theory of casting, casting alloys, basic melting processes, molding and core materials, nonmetallic sand, special casting methods (permanent mold casting, die casting, continuous casting, centrifugal casting, investment casting, etc.), equipment, mechanization, and automation.

Balichkin, N. N., Candidate of Technical Sciences; and G. V. Popenko, Candidate of Technical Sciences. (Institute of Metallurgy, Lenin A. A. Baryev, USSR Academy of Sciences) Institute of Powder Metallurgy, Ukrainian Academy of Sciences) Powder Metallurgy 175

The article is a general survey of the development and present state of powder metallurgy in the USSR. Theoretical and practical aspects of the preparation of sintered and sintered metal products are discussed.

Pyralin, N. N., Corresponding Member, USSR Academy of Sciences; N. O. Ozerov, Professor, Doctor of Technical Sciences; A. A. Yarkhin, Candidate of Technical Sciences; and N. N. Shuruborov, Candidate of Technical Sciences. (Institute of Metallurgy, Lenin A. A. Baryev, USSR Academy of Sciences; and Leningrad Polytechnical Institute) Progress in the Science of Welding Metals in the USSR 199

The authors discuss the studies that have been made in the USSR of the theoretical aspects of welding, beginning in the latter part of the nineteenth century. Specific topics are: investigation of the arc, Curd 5/25

CHUDAKOV, Ye.A., akademik, glavnyy redaktor; AKOPOV, S.A., redaktor; ARTOBO-
LEVSKIY, I.I., redaktor; ACHERKAN, N.S., redaktor; BEZPROZVANNYY, I.M.,
redaktor; GUDTSOV, N.T., redaktor; DIKUSHIN, V.I., redaktor; YEFREMOV,
A.I., redaktor; ZAPOROZHETS, V.K., redaktor; ZIMIN, A.I., redaktor; KA-
ZAKOV, N.S., redaktor; KIRPICHEV, M.V., redaktor; KOVAN, V.M., redaktor;
KONYUSHAYA, Yu.P., redaktor; LIPGART, A.A., redaktor; MALYSHEV, V.A., re-
daktor; MARTENS, L.K., redaktor; MARIYENBAKH, L.M., redaktor; NIKOLAYEV,
G.A., redaktor; ODING, I.A., redaktor; PATON, Ye.O., redaktor; RAKHIN,
L.K., redaktor; RUBTSOV, N.N., redaktor; SAVERIN, M.A., redaktor; SEMEN-
CHENKO, I.I., redaktor; SERESEN, S.V., redaktor; SHAMN1, N.A., redaktor;
SHELEST, A.N., redaktor; SHUKHAL'TER, L.Ya., zamestitel' glavnogo re-
daktora, redaktor; YAKOVLEV, A.S., redaktor.

[Machine construction encyclopedic handbook] Mashinostroenie; entsiklope-
dicheskiy spravochnik. Part 1. [Engineering calculations in machine
construction] Inzhenernyye raschety v mashinostroyeni. Moskva, Gos. nauch-
no-tekhn. izd-vo mashinostroyeni. lit-ry, Vol. 1. no.1. 1947. 548 p.

(Mechanical engineering)

(MLRA 8:1)

ZIMIN, A. I.

"Review of S. I. Gubkin's Book 'Theory of Pressure Working of Metals'", Iz. Ak.
Nauk SSSR, Otdel. Tekh. Nauk, 5, 1949. Chair of Pressure Working, Moscow Higher
Tech School imeni N. E. Bauman, -c1949-.

ZIMIN, A. I.

Technology

Machines and the technology of working metals by pressure, Moskva, Mashgiz, 1951.

9.⁴ Monthly List of Russian Accessions, Library of Congress, ~~December 1950~~ ~~1951~~, Uncl.

ZIMIN, A.I., professor.

[Machines and technology of compression methods used in metal working] Mashiny i tekhnologiya obrabotki metallov davleniem. Pod red. A.I.Zimina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.i sudostroit. lit-ry, 1953. 111 p. (MLRA 7:2)

1. Moscow. Moskovskoye vyssheye tekhnicheskoye uchilishche. Kafedra "Mashiny i tekhnologiya obrabotki metallov davleniem." (Forging)

ZIMIN, A. I.

Gidravlicheskie pressy (Hydraulic presses). Moskva, Mashgiz, 1953. 172 p.

SO: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

ZIMIN, A.I., professor

[Machines and automatic apparatus of the forging and stamping industry] Mashiny i avtomaty kuznechno-shtampovogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry. Vol. 1. [Hammers] Moloty. 1953. 459 p. (MLRA 7:7)
(Hammers)

ROZANOV, B.V., kandidat tekhnicheskikh nauk; GOL'MAN, L.D., kandidat tekhnicheskikh nauk; ZIMIN, A.I., professor [redaktor].

Hydraulic presses (theory and elements of calculation). B.V.Rozanov, L.D. Gol'man, ed. by A.I.Zimin. [Trudy] TsNIITMASH no.54:3-171 '53.

(MLRA 6:9)

(Hydraulic presses)

ZIMIN, A. I. ED.

Elementy rascheta kuznechnykh mashin (Calculating elements of forging machines)
Moskva, Mashgiz, 1954. 171 p. Illus., Diagr., Tables (Moscow, Tsentral'nyy Nauchno-
issledovatel'skiy Institut Tekhnologii i Mashinostroyeniya. Kniga 58)

SO: N/5
662.33
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ZIMIN, A.I.

Preface. [Trudy] TSNIITMASH no.58:3-4 '54. (MIRA 7:6)
(Mechanical engineering)

SOV/124-58-2-2145

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 92 (USSR)

AUTHOR: Zimin, A. I.

TITLE: The Mechanics of Plastically Deformed Bodies. Pure Plastic Stretching (Mekhanika plasticheski deformiruyemykh tel. Chistoye plasticheskoye raastyazheniye)

PERIODICAL: V sb.: Mashiny i tekhnologiya obrabotki metallov davleniyem. Moscow, Mashgiz, 1955, pp 9-15

ABSTRACT: Bibliographic entry

Card 1/1

ZIMIN, A.I., professor.

Energy saturation (energy capacity) of motion in problems of
designing heavy forging machinery. [Trudy] NVTU no.40:5-21 '55.
(MLBA 9:8)
(Forging machinery)

ZIMIN, A.I., professor.

"Machines and the technology of working metals by pressure"
department. [Trudy] MVTU no.42:5-8 '55. (MLBA 9:5)
(Mechanical engineering) (Metalwork)

Zimin, A.I.

PHASE I BOOK EXPLOITATION 252

Moscow. Vyssheye tekhnicheskoye uchilishche

Mashiny i tekhnologiya obrabotki metallov davleniyem; sbornik statey
(Machines and Technology for Pressure Working of Metals; Collec-
tion of Articles) Moscow, Mashgiz, 1957. 127 p. (Its: [Trudy]
vyp. 79) 5,000 copies printed.

Ed.: Zimin, A.I.; Ed. of Publishing House: Mezheva, V.A.; Tech. Ed.:
Matveyeva, Ye.N.; Chief Ed. of Literature on Heavy Machine
Building [Mashgiz]: Golovin, S.Ya.

PURPOSE: This collection of articles is intended for workers in
scientific research institutes and for others connected
with forging and stamping.

COVERAGE: This book contains scientific transactions of the Moskovskoye
vyssheye tekhnicheskoye uchilishche im. N.E. Bauman (Moscow
Higher Technical School). Theoretical and experimental studies
of problems in designing forging machines and in the technology
Card 1/5 of pressure working of metals are presented. The transactions

Machines and Technology for Pressure Working of Metals (Cont.) 252

include studies carried out by the Department of Machines and Technology of Pressure Working of Metals in 1955. For additional coverage see Table of Contents.

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CONTENTS: Foreword

Zimin, A.I., Professor. Hydraulic Drive Power-Screw Forge Press

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This article describes development of a new type press forging machine based on the screw motion principle and powered by a hydraulic drive. There are 4 Soviet references.

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Blinnik, S.I. Docent, Candidate of Technical Sciences. On the Problem of Bridging Hydraulic Press Columns

11

This article describes a design for hydraulic press tie beams. There are 4 Soviet references.

Ovchinnikov, A.G., Candidate of Technical Sciences. Use of Pressure Indicators for Testing Steam Hammers

17

There are 4 Soviet references.

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Machines and Technology for Pressure Working of Metals (Cont.) 252

Belyayev, S.N., Engineer. Production of Thin-Sheet
Wedge-Shaped Individual Blanks by the Rolling Method 22

Zimin, A.I. Professor. Mechanics of Plastically
Deformed Bodies. Relative Elongation in Plastic Tension 38
This is a continuation of previously published studies
on the mechanics of plastically deformed bodies by the
Department of Machines and Technology of Pressure Working
of Metals. There is 1 Soviet reference.

Popov. Ye.A., Candidate of Technical Sciences. Analysis of
the Blank Flaring Operation 42

There are 4 Soviet references.

Bugrova, A.A., Candidate of Technical Sciences. Analysis of
Factors Affecting the Height of the Rim During Flanging of
Noncircular Holes 62

There are 2 Soviet references.

Matveyev, A.D., Engineer. Theoretical Analysis of Sheet Form-
ing Using a Cylindrical Punch 75

There are 4 Soviet references.

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Machines and Technology for Pressure Working of Metals (Cont.) 252

Matveyev, A.D., Engineer. Theoretical Analysis of Hydraulic Forming in a Round Die 81

There are 8 references, of which 6 are Soviet and 2 English.

Averkiyev, Yu.A., Candidate of Technical Sciences. Methods for Calculation of Hardening in the Analysis of Form-Changing Operations During Cold Stamping 91

There are 3 Soviet references.

Semenov, Ye.I., Docent, Candidate of Technical Sciences. On the Problem of Setting up a Plastic Deformation Experiment Using a Lead Model 99

There are 5 Soviet references.

Card 4/5

Machines and Technology for Pressure Working of Metals (Cont.) 252

Pogodin-Alekseyev, G.I., Professor, Doctor of Technical Sciences, and Zhuravlev, S.V., Candidate of Technical Sciences. Effect of the Deformation Rate on the Thickness of the Hardened Layer During Punch-Blanking

103

There are 10 references, of which 6 are Soviet and 4 are in English.

Zimin, A.I., Professor. Information Sheets on the Theory of Plastic Deformations

110

AVAILABLE: Library of Congress

VK/lbb
4 June 1958

Card 5/5

SOV/137-58-7-14846

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 130 (USSR)

AUTHOR: Zimin, A.I.

TITLE: A Hydraulic-screw Hammer Press (Gidrovintovoy press-molot)

PERIODICAL: V sb.: Mashiny i tekhnol. obrabotki metallov davleniyem. (MVTU, 79). Moscow, Mashgiz, 1957, pp 5-10

ABSTRACT: Questions dealing with the dynamics of screw motion of bodies due to the pressure of a fluid on the bottom area of the internal cylindrical cavity of a screw are examined. Formulas are presented for the design of this fundamentally new type of forging machine - a hydraulic-screw hammer press, the force it brings to bear and the rate of motion of the screw. A model hydraulic-screw hammer press is being designed at the Department of Pressworking of the Moscow Technical College im. Bauman.

I.K.

1. Hydraulic presses--Design

Card 1/1

SOV/137-58-7-14844

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 130 (USSR)

AUTHOR: Zimin, A.I.

TITLE: Ways of Improving the Operation of Forging Presses and Development of New Press Designs (Puti uluchsheniya raboty kuznechno-pressovykh mashin i sozdaniye novykh konstruktsiy)

PERIODICAL: V sb.: Progressivn. metody shtampovki i kovki. Khar'kov, Oblizdat, 1957, pp 7-30

ABSTRACT: An examination is made of the factors governing the present state and development of the forging industry. An analysis of the conditions for forging production and primarily of the designs of forging machines (M) and their operation provides the basis for rational operation of press forging M, which is a decisive factor in raising output. Special attention is given to examination of the optimum conditions for loading M in terms of stress and power, and the time utilization of M, also the use of the most profitable forming techniques for the given M. Attention is also given to an economic rationale for tool and die life, the provision of conveniences and relatively easy working conditions for forge and press operators, the utilization of

Card 1/2

SOV/137-58-7-14844

Ways of Improving the Operation of Forging Presses (cont.)
effective methods of mechanization and automation and the rapid setting-up
and repair of the M. New principles for the design of forging M - the prin-
ciple of pulsation and of simultaneity of blow and pressure - are advanced.
G.F.

1. Forge presses--Design
2. Forge presses--Operation

Card 2/2

SOV/137-58-8-18039

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 262 (USSR)

AUTHOR: Zimin, A. I.

TITLE: Mechanics of Bodies Undergoing Plastic Deformation. Relative Elongation in Purely Plastic Stretching (Mekhanika plasticheski deformiruyemykh tel. Otnositel'noye udlineniye pri chisto plasticheskom rastyazhenii)

PERIODICAL: V sb.: Mashiny i tekhnol. obrabotki metallov davleniyem (MVTU, 79), Moscow, Mashgiz, 1957, pp 38-41

ABSTRACT: The difference in the evaluation of lengthening by the value for the relative ($\epsilon_k = \Delta l / l_i$) and the true ($\epsilon_t = \log l_k / l_i$) lengthenings is examined. The latter is considered as the fundamental parameter of plastic deformation under the conditions of pressure-working of metal. A relationship is formulated for the calculation of the lengthening in terms of the parameters of plastic stretching, i. e., the initial length of the rod l_i , the speed of the machine v_m , and the time of the plastic deformation t . The formula has the following appearance: $\epsilon_x = \log (1 + v_m t k / l_i)$

1. Metals--Deformation 2. Metals--Mechanical properties V. O.
3. Mathematics

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21 min, A. I.

122-5-16/35

AUTHORS: Zimin, A.I. (Professor) and Dobrinskiy, N.S. (Cand. Tech. Sc.)

TITLE: The Problems of Designing a Pump Transmission without Accumulator for Hydraulic Presses (Voprosy rascheta bezakkumulyatornogo nasosnogo privoda gidravlicheskih pressov)

PERIODICAL: Vestnik Mashinostroyeniya, 1957, Nr 5, pp. 37-42 (USSR)

ABSTRACT: A plot of the force against the displacement of the ram is shown in its typical form and used to discuss several hydraulic factors in a transmission without accumulator. A large proportion of the power is absorbed by throttling. Without accumulator the installed pump power is not fully utilised. Two superimposed pumps give a better utilisation. Various means of improvement are enumerated designed to approximate the ideal pump characteristics. Five types of force/stroke diagram are distinguished represented by the processes of reducing and piercing, upsetting and drawing-out, hot die stamping and briquetting, rubber die pressing and blanking. They differ by the rate of force variation and the pump utilisation factor. These distinctions are illustrated by the results of tests carried out by TsNIITMASH and summarised in a table. Typical losses of a 25 ton press are stated. Eccentric plunger type of pumps are discussed.

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The Problems of Designing a Pump Transmission without Accumulator
for Hydraulic Presses.

and compared with rotating plunger pumps. Further develop-
ments are envisaged with emphasis on the separation of the
transmission into small specialised units. The considerat-
ions in the selection of pumps are stated and a numerical
example worked out.
There are 7 figures and 2 tables.

AVAILABLE: Library of Congress.

Card 2/2

ZIMIN, A.I., prof.

Mechanics of bodies subjected to plastic deformations.
Relative elongation caused by purely plastic stretching.
[Trudy] MVTU no. 79:38-41 '57.
(Deformations (Mechanics))

(MIRA 11:1)

~~ZIMIN, A.I.~~
ZIMIN, A.I., prof., red.

Reference lists on the theory of plastic deformations.
[Trudy] MVTU no.79:110-127 '57.
(Deformations (Mechanics))

(MIRA 11:1)