ZINOV'YEV, M.D

AUTHOR : Zinov'ev, M. D. 65-1-7/14

TITLE: Production of Sulphur from Petroleum Refining Waste (Proizvodstvo sery iz otkhodov neftepererabotki).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.1. pp.32-40. (USSR).

ABSTRACT: The paper discusses the possibility of recovering sulphur from petroleum products and its subsequent utilisation for the production of sulphuric acid. Due to the rapid development of the new Ural-Volga Regions the output of crude petroleum (with high S-content) increases rapidly and will be exceeding the present output by 70% by 1960. Under normal conditions, according to calculations of the petroleum processing firms, from 15-35% of the initial sulphur in crude petroleum is concentrated in petroleum gases in the form of hydrogen sulphide; from 25 - 40% of S occurs in light products in the form of sulphides, mercaptans and elemental sulphur and 60 - 25% remains in the residues or coke (Tables 1 and 2). The distribution of sulphur in the products in relation to the processing of Bashkirsk crude, containing 1.6% sulphur, is given in Table 3. Laboratory and plant experi-

Card 1/3

Production of Sulphur from Petroleum Refining Waste.

ments have shown that up to 70% S can be separated after high temperature combustion in the gaseous phase and subsequent condensation (without a catalyst). The residual gases can be conducted over a catalyst at much lower temperatures, due to the lowered dew point of the sulphur vapours. The final yield of sulphur, when the catalytic process is repeated, is increased to 90 - 95%. Calculations and experiments proved that the dew point can be decreased to 230°C. A 97.1% yield is obtained at this temperature. At other contact temperatures the following yields were obtained: at 277°C - 94%, at 327°C - 88.9%, and at 377°C - 81.5%. The annual capacity of petroleum processing plants at present is 6,000,000 t of crude, i.e. 40,000 t/annum of sulphur. A considerable quantity of sulphur can be used for the production of contact sulphuric acid and oleum, when produced by dry catalysis and when the purification and cooling of the sulphur dioxide are not necessary. The construction of new plants for the production of sulphuric acid is planned and it is expected that by 1960 100,000,000 t of S-containing crude from Baku will be processed and about 50% of sulphur recovered. There are

Production of Sulphur from Petroleum Refining Waste. 65-1-7/14

There are 6 figures and 7 references: 5 English, 1 German and 1 Russian.

ASSOCIATION: Giprogaztopprom.

AVAILABLE: Library of Congress.

Card 3/3

ZINOV'YEV, M.M.; GALKIN, Yu.G.

Results of four years of operation of the seven-year plan in the industry of industrial asbestos products. Kauch.i rez. 22 no.4:37-39 Ap '63. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut asbesto-tekhnicheskikh izdeliy.

(Asbestos)

ZINOV'YEV, M.N.

On the history of the founding and development of schools of working youth. Trudy LIAP no.25:98-117 '58. (MIRA 11:10)
(Labor and laboring classes--Education)

ZINOVY'EV, M. S. Cand Geolog-Mineralog Sci

Dissertation: "Biostratigraphy of the Tarkhan-Chokrak Deposits of Eastern Georgia."

25 Oct 49

Moscow Order of the Labor Red Banner Petroleum Inst imeni I. M. Gubkin

SO Vecheryaya Moskva
Sum 71

ZINOV'YEV, N. S.

Geology

New data on the shallow phase of the Tarkhan Horizon. Dokl. AN SSSR 84, No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress
October 1952. UNCLASSIFIED.

ZINOV'YEV, M. S.

Paleontology

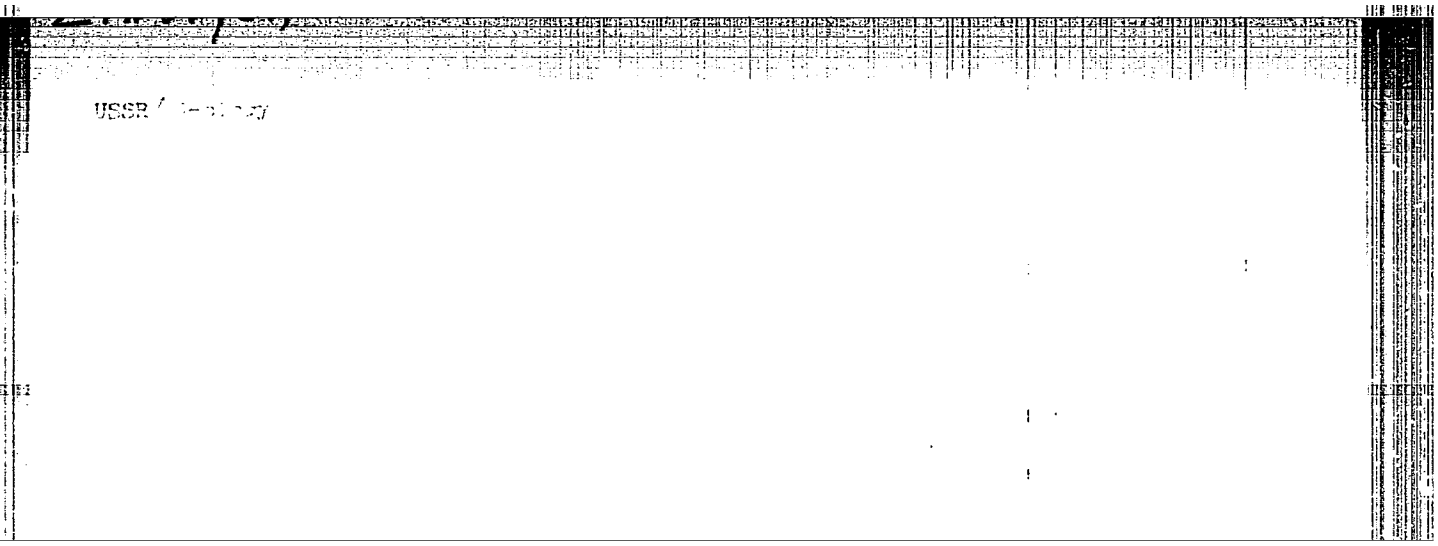
The state of Soviet paleontology. Izv. AN SSSR, Ser. biol. No. 1, 1953.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ZINOV'YEV, M.S.

Shallow water deposits of the Tarkhan horizon in eastern Georgia and their possible analogies in southern Ukraine. Trudy L'vov. geol.ob-va no.2:46-85 '53. (MLRA 10:4)

1. Khar'kov, Gornyy institut.
(Georgia--Paleontology, Stratigraphic)
(Ukraine--Paleontology, Stratigraphic)



Presented by : Academician N. N. Strukhov, January 2, 1955

Institution : Kharkov Mining Institute

ZINCHENKO, N.S.; MIGACHEVA, Ye.Ya.; STERLIN, B.P.

Volume, principles of the separation of zones and their correlation. Sov. geol. 8 no.5:11-17 My '65. (MIRA 18:7)

1. Khar'kovskiy gosudarstvennyy universitet i UkrVNIIGaz.

ZINOV'YEV, M.S.

Some new data on the stratigraphy of Jurassic sediments in the Lake El'ton region. Izv. vys. ucheb. zav.; geol. i razv. 6 no.4:17-26 Ap '63. (MIRA 16:6)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
(El'ton Lake region—Geology, Stratigraphic)

ZINOV'YEV, M.S.; TESLENKO, Yu.V.

Konka sedimentations in the southern part of the Donets Basin.
Nauch. trudy KHGI no.6:61-67 '58. (MIRA 14:4)
(Donets Basin—Geology, Stratigraphic)

ZINOV'YEV, M.S.

20-1-47/64

AUTHOR ZINOV'YEV M.S.

TITLE New Results of Research on the Conchoidal Deposits in the Rostov Region. (Novyye dannyye o konkskikh otlozheniyakh Rostovskoy Oblasti -Russian)

PERIODICAL Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 1, pp 172 - 175 (U.S.S.R.)

ABSTRACT The marine deposits from the Medium Miocene in the above area were first of all discovered at Novorossijsk. In the beginning it was assumed that not only layer h and layer h_1 but also the layer near Suchoj Neswetai belonged to the conchoidal horizon. Other geologists were of different opinion. The latest investigations led to the following results: The analysis of the lithological characteristics of the investigated deposits and of the organic relics enclosed in them demonstrate that, (a), formerly this area was a maritime bay because in spite of the proximity of the present shore no strong-shelled mollusks were found (and also because of other phenomena), (b), with regard to the stratigraphical distribution of the fauna investigated, which occurs only in conchoidal or preconchoidal deposits of the Medium Miocene, strong indications exist for the assumption that this region belongs to conchoidal age, and, (c), this region has to be designated as conchoidal deposit because the distributions of the maritime conchoidal deposits at the southeastern edge of the Donets Fold proves that the transgression of the sea to the territory of the so-called Tanai Bay took place already during the Medium Miocene.

Card 1/2

New Results of Research on the Conchoidal Deposits in the Rostov Region. 20-1-47/64

ASSOCIATION Not Given.
PRESENTED BY
SUBMITTED
AVAILABLE Library of Congress
Card 2/2

ZINOV'YEV, M.S.

New data on the Konkian deposits of the Rostov region. Dokl. AN SSSR 114 no.1:172-175 My '57. (MLRA 10:7)

1. Khar'kovskiy gornyy institut. Predstavleno akademikom N.M.Strakhovym.
(Rostov Province--Geology, Stratigraphic)

ZIKOV'YEV, M.S.

On the stratigraphic distribution of Rzehakia (= Oncophora) socialis (Rzeh.). Dokl.AN SSSR 106 no.1:123-125 Ja '56. (MLRA 9:4)

1.Khar'kovskiy gornyy institut.Predstavleno akademikom N.M. Strakhovym.

(Lamellibranchiata, Fossil)

ZINOV'YEV. M. V.

Kotov, A. P. and Zinov'yev, M. V. - "Manufacture of medical prostheses and apparatuses with the application of waterproof casein glue," Uchen. zapiski (Ukr. nauch.-issled. in-t protezirovaniya), Issue 1, 1948, p. 99-104

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

ZINOV'YEV, M. V.

Zinov'yev, M. V. - "Suspension for a short hip stump," Uchen. zapiski (Ukr. nauch.-issled. in-t protezirovaniya), Issue 1, 1948, p. 105-13

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

L 27471-66 EWT(d)/EWT(l)/EWP(v)/EWP(k)/EWP(h)/EWP(l)/ETC(m)-6 WW

ACC NR: [illegible]

[illegible]

ORG: Physicotechnical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR)

TITLE: Low temperature attachment for standard testing machines

SOURCE: Izmeritel'naya tekhnika, no. 1, 1966, 38-39

TOPIC TAGS: metallurgical testing machine, low temperature research

ABSTRACT: The authors describe the construction of a low temperature attachment for standard materials testing machines, intended for deformation of metals and semimetals at temperatures down to 4.2K. Special features of the attachment are a multi-position clamp to test [illegible] samples, and a cryostat in which [illegible] a metallic or glass Dewar [illegible] to automatically [illegible] during the idle stroke of the testing machine. The authors thank V. I. Startsev for interest in the work. Orig. art. has: [illegible] figures.

SUB CODE: 13, 14/ SUBM DATE: 16Dec64/ ORIG REF: 001/ OTH REF: 001

Card 1/2 UDC: 536.483:620.1.05

L 27471-66
ACC NR: AP6007850

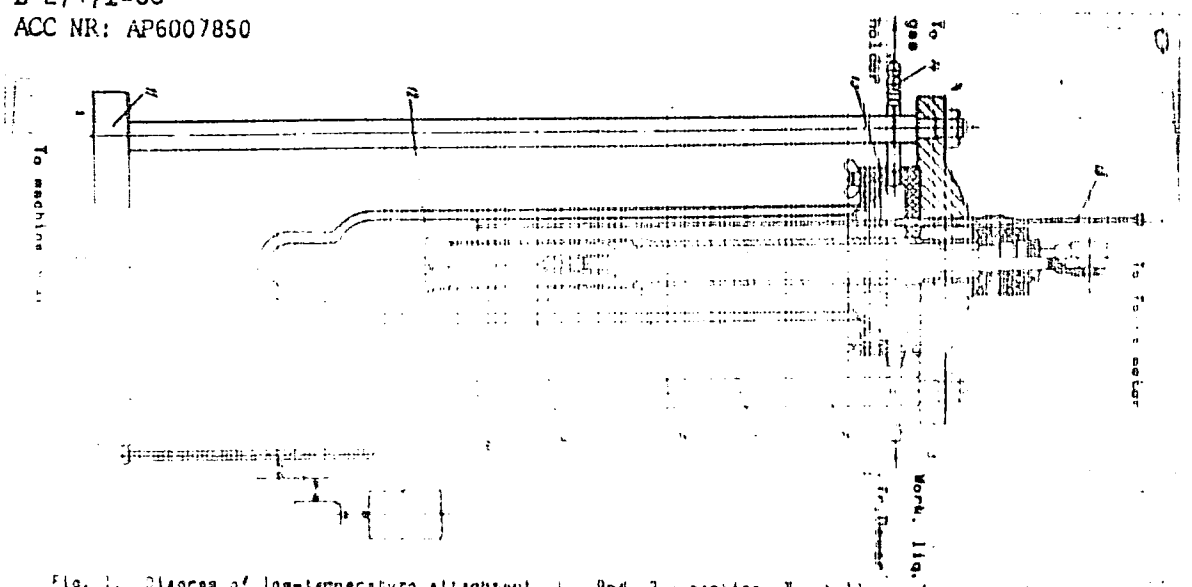


Fig. 1. Diagram of low-temperature attachment. 1 - Rod; 2 - packing; 3 - bellows; 4 - upper traverse; 5 - [illegible] from Dewar; 6 - pull rod; 7 - Dewar; 8 - tube; 9 - clamp; 10 - sample; 11 - lower traverse; 12 - support; 13 - vacuum chamber; 14 - transducer valve; 15 - elec. level output; 16 - recording unit.

Card 2/2

SOV/124-59-4-4514

Translation from: Referativnyy zhurnal. Mekhanika, 1959, Nr 4, p 158 (USSR)

AUTHOR: Zinov'yev, N.

TITLE: An Approximate Method of Evaluating the Vibration Reliability of Turbine Disks

PERIODICAL: Tr. Tallinsk. politekhn. in-ta, 1958, Vol A, Nr 108, p 15, ill.

ABSTRACT: The author discusses the free bending (fan-type) vibrations of a turbine disk of variable thickness. He recommends that the natural frequencies be determined by the Southwell formula (Timoshenko, S.P., "The Theory of Vibrations in Engineering". Gostekhizdat, 1932), derived for a disk of constant thickness, and that a certain correction factor be introduced. For the latter an empirical formula is obtained. The initial Southwell formula is incorrectly adduced : in particular, instead of the Southwell coefficient α, one should take $\sqrt{\alpha}$.

Ya.G. Panovko

Card 1/1

ZINOV'YEV, N.

At the first session of the Committee on Trade of the United Nations Economic Commission for Asia and the Far East[with English summary in insert]. Vnesh. torg. 28 no. 4:55-59 '58. (MIRA 11:7)
(United Nations--Commissions)
(Commerce)

SINOV'YEV, NIKOLAY

Chief of the 2nd section of the Gremyachinsk Mine No. 71-72; method of mining at Gremyachinsk in Molotovskaya o., RSFSR

Soviet Source: N: Komsomol'skaya Pravda No. 79 5 April 1951 Moscow
Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 108268 Unclassified.

ZINOV'YEV, N.A.

GATOV,Boris Iosifovich; DUBINSKIY,Naum Grigor'yevich; ZINOV'YEV, Nikolay Afanas'yevich; MALAKHOVSKIY, Grigoriy Viktorovich; NOVIKOV,Fedor Andreyevich; ZUDENKOV,Leonid Mikhaylovich; REZNICHENKO, Fred Samoylovich; SOKOLOV, Nikolay Nikolayevich; POTING, L.Yu., [deceased] redaktor; FRUMKIN,P.S., tekhnicheskiy redaktor

[Production of cast, welded and forged chains] Proizvodstvo litykh, svarnykh i shtempovannykh tsepei. Leningrad, Gos.soiuznoe izd-vo sudostroitel'noi promyshlennosti, 1955. 267 p. (MLRA 9:1)
(Chains)

PETROV, B.D., prof.; ZINOV'YEV, N.A., kand.med.nauk

Bookshelf; "Popular medical encyclopedia." Reviewed by B.D.Petrov and I.A.Zinov'ev. Zdorov'e 8 no.6:29 Je '62. (MIRA 15:5)
(MEDICINE--DICTIONARIES)

SOV/19-58-6-649/685

AUTHORS: Zinov'yev, N.F., Marchenkov, A.Ye., Akman, L.A., Gerdyush, K.K., Stepanov, I.A., Abzriyelovich, S.S., Galasov, P.N., Ozolina, Z.V., and Brazhnikov, P.G.

TITLE: A Machine for Automatically Wrapping Bottles in Paper (Mashina dlya avtomaticheskogo zavorachivaniya butylok v bumagu)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 144 (USSR)

ABSTRACT: Class 81a, 15_{01}. Nr 113978 (581273 of 29 July 1957). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A machine with a sprocket wheel conveyer band with sockets; a rocking lever for laying bottles into the sockets; semi-cylindrical grips with rollers and combs for guiding the wrapping paper, and a three-finger grip; arranged so that a bottle is lifted, wrapping up and put back into the conveyer socket; a knife cutting off paper running off a roll; and a discharge table with two rocking rol-

Card 1/2

A Machine for Automatically Wrapping Bottles in Paper

lers, a rocking lever and a plate bending and pressing the remaining loose paper end to the bottom of the bottle.

Card 2/2

ZINOV'EV, N.F.

Electric Lines

Blocking scheme for long stretch trolleys, Rab, energ. No. 2. 1952

Monthly List of Russian Accessions, Library of Congress, May, 1952 Unclassified

ZINOV'YEV, N.I.

BOHROV, A.R.; SIBIRYAKOV, A.A.; AKATHOV, I.N.; BIL'DE, A.E.; KOZIN, A.I., GROSMAN, I.S.; BASKAKOV, A.I.; YATSYSHIN, A.M.; TRUHOV, A.F.; KUTUZOV, N.L.; VICHIK, Ya.B.; CHUMBAROVA, A.A.; PRYAKHIN, R.I.; ZINOV'YEV, N.I.; MIKHAYLOVA, S.I.

Georgii Alekseevich Uarov. Muk.-elev.prom. 21 no.1:31 Ja '55.
(Uarov, Georgii Alekseevich, 1898-1954) (MIRA 8:5)

ZINOV'YEV, N.I.

Surgical treatment in a case of severe bilateral deformations of the feet following burns. Ortop.,travm.i protez. no.7:60-61 '61. (MIRA 14:8)

1. Iz otdeleniya travmatologii (zav. - F.I. Iskhakov) Belgorodskoy oblastnoy bol'nitsy (glavnyy vrach - zasluzh. vrach RSFSR A.D. Strizhevskiy).
(BURNS AND SCALDS) (FOOT--WOUNDS AND INJURIES)

L 37194-66 EWT(d)/EWT(m)/EWP(w)/EWP(f)/EWP(v)/T-2/EWP(k) IJP(c) EM

ACC NR: AT6019150 (N) SOURCE CODE: UR/2807/65/000/224/0077/0088

AUTHOR: Zinov'yev, N. K.

ORG: None

TITLE: A stand for studying aerodynamic forces acting on the blades of partial turbine stages

SOURCE: Tallinn. Politekhnicheskiy institut. Trudy, Seriya A, no. 224, 1965. Sudovyye silovyye ustanovki (Marine power installations) sbornik statey, no. 3, 77-88

TOPIC TAGS: aerodynamic force, turbine stage, blade profile, blade vibration, turbine blade, test stand

ABSTRACT: The author describes a stand for studying the aerodynamic forces acting on the working blades of partial turbine stages. This stand was tested at the laboratory of the Department of Marine Power Installations, Tomsk Polytechnical Institute im. S. M. Kirov in 1963. The stand is designed for studying the effect of flow on working blades under conditions close to those encountered in the operation of practical partial turbine stages. The stand may be used to test working blades of various shapes with a height of no more than 25 mm. Various clearances between the edges of the working and guide vanes and blades may be studied at various velocity ratios U/C_1 and Mach numbers, M. The effects which structural blading characteristics and clearances

Card 1/2

UDC: 533.601.1:621.125

L 37194-66

ACC NR: AT6019150

0

have on the peripheral forces acting on working blades are considered. The stand is constructed according to the principle of a radial stage with nozzles which are located on a rotating wheel with fixed working blades. The structure of the flow against the working blades is identical to the flow in a single-rimmed partial turbine stage. A series of diagrams is given showing the components of this stand. The results of this study show that the nature of load variation on the working blade in a partial stage is more complex than was previously believed. This is shown by the effect which flow unsteadiness during partial intake has on the peripheral force. Analysis of the experimental data brings out the fact that additional aerodynamic inertial forces act on the working blades, changing the load curve for these blades in comparison with the load curve for blades in a steady-state flow. This is caused by the unsteady flow due to partial intake. Reversed peripheral stresses along the intake arc under given conditions may increase vibration amplitude of the working blades which in turn may cause an excessive increase in bending stresses and fatigue failure of blades. In addition to this, a sharp change in the magnitude and direction of peripheral forces on the blade reduces peripheral energy and consequently the efficiency of the stage. Orig. art. has: 9 figures.

SUB CODE: 13/10/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 000

Card 2/2 mcP

ACC NR: AR6028061 SOURCE CODE: UR/0285/66/000/005/0011/0011

AUTHOR: Zinov'yev, N. K.

TITLE: Test bench for the study of aerodynamic forces on the rotor blades of partial turbine stages

SOURCE: Ref. zh. Turbostroyeniye, Abs. 5.49.43

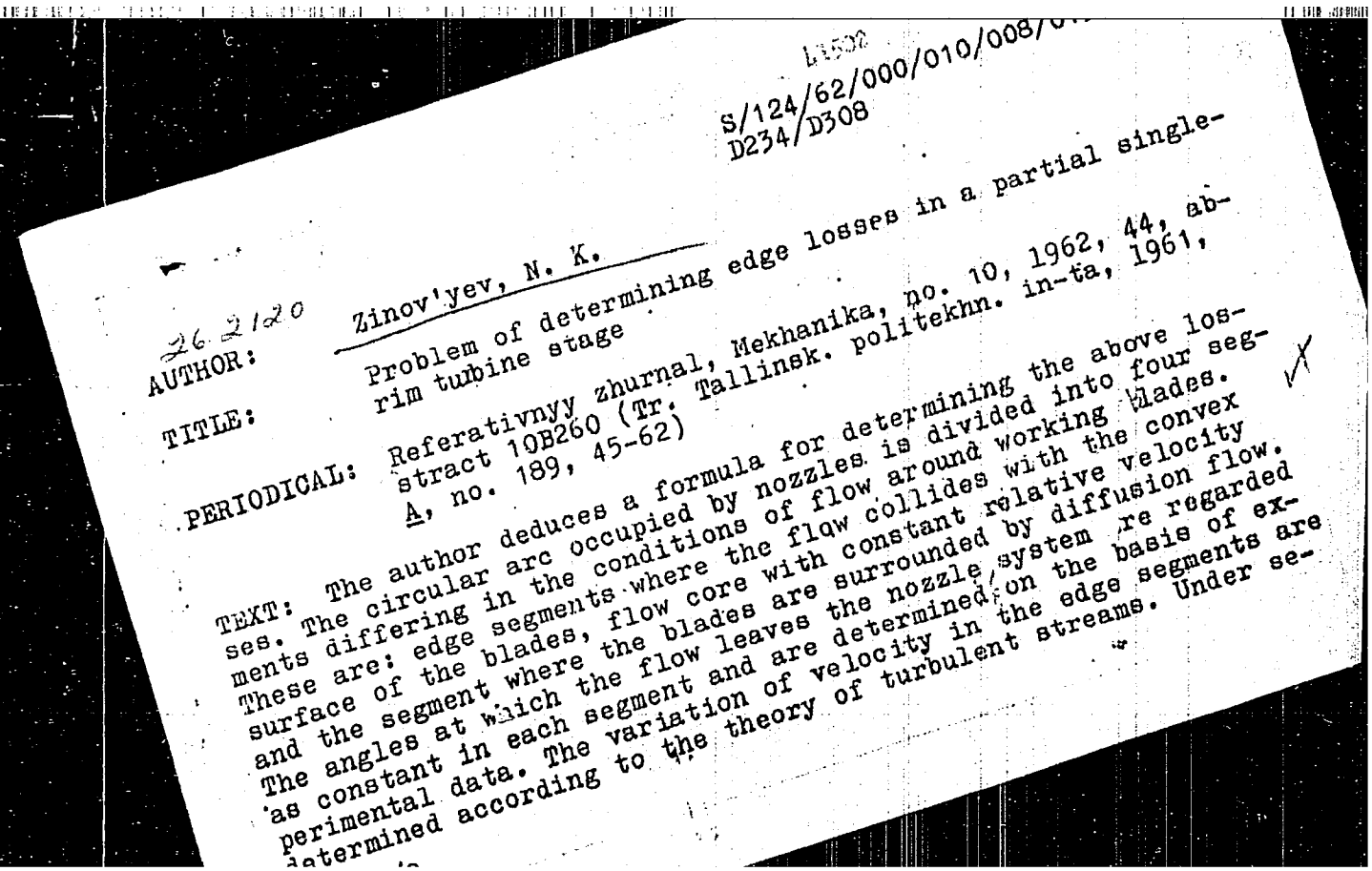
REF SOURCE: Tr. Tallinsk. politekhn. in-ta, A, no. 224, 1965, 77-88

TOPIC TAGS: aerodynamic force, turbine stage, marine engine

ABSTRACT: A test bench for the study of the force effect on the rotor blades under conditions similar to those existing in the operation of partial turbine stages is described. The bench was designed at the Department of Marine Power Plants of the Tallin Polytechnic Institute. Results of bench tune-up tests, carried out in 1963, are presented. [Translation of abstract] [KP]

SUB CODE: 20/ SUBM DATE: none/

Card 1/1 UDC: 533.601.1:621.125



S/124/62/000/010/008/0...
D234/D308

26.2120

AUTHOR: Zinov'yev, N. K.

TITLE: Problem of determining edge losses in a partial single-rim turbine stage

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 10, 1962, 44, abstract 10B260 (Tr. Tallinsk. politekhn. in-ta, 1961, A, no. 189, 45-62)

TEXT: The author deduces a formula for determining the above losses. The circular arc occupied by nozzles is divided into four segments differing in the conditions of flow around working blades. These are: edge segments where the flow collides with the convex surface of the blades, flow core with constant relative velocity and the segment where the blades are surrounded by diffusion flow. The angles at which the flow leaves the nozzle system are regarded as constant in each segment and are determined on the basis of experimental data. The variation of velocity in the edge segments are determined according to the theory of turbulent streams. Under se-

Problem of determining ...

S/124/62/000/010/008/015
D234/D308

veral assumptions the author finds the circumferential component of the force acting on the blades in each segment of the nozzle arc. This makes it possible to determine the decrease of efficiency of the stage due to partial supply of steam. For a particular case the author compares the decrease of efficiency of a stage, calculated with the aid of his formula, with experimental data. [Abstracter's note: Complete translation.]

Card 2/2

ZINOV'YEV, N.V., inzh.

Conference on the production and use of cast iron rolling mill rolls. (MIRA 16:10)
Stal' 23 no.6:547-552 Je '63.

ACCESSION NR: AT4044790 S/0166/64/000/003/0041/0043

AUTHOR: Zinov'yev, N. V.

TITLE: Angular distribution of neutrons in the reaction N14(d, n)015

SOURCE: AN UzSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 3, 1964, 41-43

TOPIC TAGS: neutron, neutron emission, deuteron, neutron angular distribution, deuteron bombardment

ABSTRACT: A comparison of experimental and theoretical curves showing the angular distribution of neutrons in certain nuclear reactions indicates that there is a probable relationship between the angular distribution of the neutrons emitted and the energy of the incident deuterons. The present paper provides experimental evidence in the case of the reaction $N^{14}(d, n) O^{15}$. Based upon the theory of Schmidt and Weil, the author sets up an expression for the differential of an effective cross section:

$$\frac{d\sigma}{d\Omega} = \left| \frac{\Lambda_1 a_D^2}{a_D^2 + K_1^2} J_1(k_1 R_1) + \Lambda_2 Q_H J_0(k_2 R_2) \right|^2,$$

$$Q_H = 0{,}0764 \sin K_2 r_N \left(\frac{a_N^2}{K_2^2 - a_N^2} - \frac{5{,}96 \beta_N^2}{K_2^2 + \beta_N^2} \right) -$$

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ACCESSION NR: AP4044790

$$-J_1(K_2 r_N)\left(\frac{\alpha_N^2}{K_2^2-\alpha_N^2}+\frac{0{,}608\beta_N^2}{K_2^2+\beta_N^2}\right); \quad (1)$$

where A_1, A_2, R_1 и R_2 are parameters of the theory, but the parameters

$$r_N = 3.7\cdot10^{-13}\sqrt{A}\ см;\ \alpha_N = \frac{1}{\hbar}\sqrt{2\mu(E-V)};\ \beta_N = \frac{1}{\hbar}\sqrt{2\mu(-E)} \quad (2)$$

are calculated on the basis of the structure and properties of N^{14}. The author then presents experimental findings which show that there is excellent agreement between theoretical and observed data. Orig. art. has: 2 figures, 1 formula and 1 table.

ASSOCIATION: Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics, AN UzSSR)

SUBMITTED: 01Aug63

SUB CODE: NP

NO REF SOV: 001

ENCL: 00

OTHER: 004

Card 2/2

BERG, P.P., doktor tekhn.nauk; BIDULYA, P.N., doktor tekhn.nauk; GRECHIN, V.P., kand.tekhn.nauk; DOVGALEVSKIY, Ya.M., kand.tekhn.nauk; ZHUKOV, A.A., inzh.; ZINOV'YEV, N.V., inzh.; KRYLOV, V.I., inzh.; KUDRYAVTSEV, I.V., doktor tekhn.nauk; LANDA, A.F., doktor tekhn. nauk; LEVI, L.I., kand.tekhn.nauk; MALAKHOVSKIY, G.V., inzh.; MIL'MAN, B.S., kand.tekhn.nauk; SOBOLEV, B.F., kand.tekhn.nauk [deceased]; SKOMOROKHOV, S.A., kand.tekhn.nauk; STEPIN, P.I., kand.tekhn.nauk; USHAKOV, A.D., kand.tekhn.nauk; FRIDMAN, L.M., inzh.; KHRAPKOVSKIY, E.Ya., inzh.; TSYPIN, I.O., kand.tekhn.nauk; SHKOL'NIKOV, E.M., kand.tekhn.nauk; POGODIN-ALEKSEYEV, G.I., prof., doktor tekhn.nauk, red.; BOLKHOVITINOV, N.F., prof., doktor tekhn. nauk, red.toma; LANDA, A.F., prof., doktor tekhn.nauk, red.toma; RYBAKOVA, V.I., inzh., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Handbook on materials used in the machinery industry] Spravochnik po mashinostroitel'nym materialam; v chetyrekh tomakh. Pod red. G.I.Pogodina-Alekseeva. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.3. [Cast iron] Chugun. Red.toma N.F.Bolkhovitov i A.F.Landa. 1959. 359 p. (MIRA 13:1)
(Machinery industry) (Cast iron)

25(1) PHASE I BOOK EXPLOITATION SOV/3278

Zinov'yev, N.V.

Tsentrobezhnaya otlivka chugunnykh trub (Centrifugal Casting of Iron Tubes), Moscow, 1958. 75 p. 500 copies printed.

Sponsoring Agencies: USSR. Sovet Ministrov. Gosudarstvennyy nauchno-tekhnicheskiy komitet, and Akademiya nauk SSSR. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii. Otdel nauchno-tekhnicheskoy informatsii. Sektor metallurgicheskoy promyshlennosti.

Ed.: N.P. Bezklubenko, Candidate of Technical Sciences; Tech. Ed.: P.N. Gavrin.

PURPOSE: This booklet is intended for metallurgists.

COVERAGE: The author begins with a brief history of the production of iron tubes by centrifugal casting and then proceeds to describe the principal methods of centrifugal casting. Equipment

Card 1/3

Centrifugal Casting (Cont.) SOV/3278

used for the purpose is discussed. Two separate chapters are devoted to the present state of the production of iron tubes by centrifugal casting in the USSR, together with its satellites, and in the western countries. Engineering and economic data are included. There are 63 references, of which 29 are Soviet, 27 English, 5 German, 1 Czech, and 1 Turkish.

TABLE OF CONTENTS:

Card 2/3

AVAILABLE: Library of Congress (TS .280 .Z5)

VK/jb
4-4-60

Card 3/3

VAPNIK, V.N.; GURVICH, L.G.; ZIMOV'YEV, N.V.

Theory of the scattering of ions from the surface of metal. Izv. AN SSSR 24 no.6:685-688 Je '60. (MIRA 13:7)
(Ions) (Electron optics)

ZINOV'YEV, N.P.; CHEKALIN, A.N.

Comparison of two methods for calculating the function of pressure for a nonuniform stratum with unsteady fluid low. Izv.vys.ucheb. zav.; neft' i gaz 4 no.7:67-73 '61. (MIRA 14:10)

1. Kazanskiy gosudarstvennyy universitet im. V.I.Ul'yanova-Lenina.
(Oil reservoir engineering)

ZINOV'YEV, N.V.

82165

S/048/60/024/06/10/017
B019/B067

9.3100

AUTHORS: Vapnik, V. N., Gurvich, L. G., Zinov'yev, N. V.

TITLE: On the Theory of Scattering of Ions on a Metal Surface

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 6, pp. 685-688

TEXT: This is the reproduction of a lecture delivered at the 9th All-Union Conference on Cathode Electronics from October 21 to 28, 1959 in Moscow. In the introduction, the theory suggested by O. Roos (Ref. 1) of secondary ion-induced ion emission is dealt with. Furthermore, the method developed by the Akademiya nauk UzSSR (Academy of Sciences, UzSSR) which allows a simultaneous observation and recording of all secondary processes taking place in the interaction of ions with the atoms of solids. To calculate the ion-induced ion emission of Roos, the Boltzmann equation was used. The use of Born's approximation to calculate the interaction cross section of ions and atoms in energy ranges where this is inadmissible is shown to be an essential shortcoming. Proceeding from solution (1) of the kinetic Boltzmann equation, the coefficient (8) of ion-induced ion emission

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On the Theory of Scattering of Ions on a Metal Surface

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is calculated on the basis of data on the interaction cross section. It is concluded from the discussion of properties of this coefficient that either the cross section depends on the energy or the model for the motion of ions in a solid like in a gas cannot be used. It is found that the gas model cannot be used for energies in the range of bonding energies of atoms in the solid. For higher energy, however, the scattering cross section is bound to depend on the energy. It is found that the experimental data on the ion-induced ion emission do not allow to draw conclusions on the symmetry or the dependence on the energy of the interaction cross section. There are 2 figures, 1 table, and 7 references: 4 Soviet, 2 German, and 1 American.

Card 2/2

ZINOV'YEV, N.V.

Angular distribution of neutrons in the $N^{14}(d, n)O^{15}$ reaction. Izv. AN Uz. SSR Ser. fiz.-mat. nauk 8 no.3:41-43 '64. (MIRA 17:10)

1. Institut yadernoy fiziki AN UzSSR.

ZIMOV'YEV, N.V.; BEZKLUBENKO, N.P., kand.tekhn.nauk, red.; GAVRIN, P.M., tekhn.red.

[Centrifugal casting of iron pipes] TSentrobezhnaia otlivka chugunnykh trub. Pod red. N.P.Bezklubenko. Moskva, Vses.in-t nauchn.i tekhn.informatsii, 1958. 75 p. (MIRA 12:9)
(Centrifugal casting)

ZINOV'YEV, N.V., inzh.

Results of the discussion on the quality of ingot molds. Stal' 18 no.11:1046-1055 N '58. (MIRA 11:11)
(Steel ingots)

ZIHOV'YEV, N.V., referent.

Using thermit-fusion welding in repairing steel teeming equipment. Biul. TSNIICHM no.22:53-59 '57. (MIRA 11:5)
(Great Britain--Thermit) (Great Britain--Welding)

SPANDAR'YAN, V.B., red.; KUTSENKOV, A.A.; YERSHOV, Yu.A.; PIROZHKOVA, A.G.; ZINOV'YEV, N.V.; GOLOVIN, Yu.M.; BELOSHAPKIN, D.K.; KOROVINA, A.N.; MOISEYEV, P.P.; GASHIN, B.M.; YEZHOV, L.S.; MAMENOK, A.I.; ROGOV, V.V.; GORYUNOV, V.P., red.; INOZEMTSEV, N.N., red.; SHLENSKAYA, V.A., red. izd-va; BORISOVA, L.M., red. izd-va; VOLKOVA, Ye.D., tekhn. red.

[Foreign commerce of the U.S.S.R. with countries of Asia, Africa and Latin America] Vneshniaia torgovlia SSSR so stranami Azii, Afriki i Latinskoi Ameriki. Moskva, Vneshtorgizdat, 1958. 194 p. (MIRA 11:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut. (Russia--Commerce)

SOV/133-58-11-25/25

AUTHOR: Zinov'yev, N.V., Engineer

TITLE: Summary of the Discussion on the Quality of Ingot Moulds (Itogi diskussii o kachestve izlozhnits)

PERIODICAL: Stal', 1958, Nr 11, pp 1046 - 1055 (USSR)

ABSTRACT: This is a summary of the discussion carried out on the pages of this journal from 1953 on the durability of ingot moulds. The following conclusions were reached: 1) the existing standards for cast iron ingot moulds TU272 (1944) should be re-examined. 2) As one of the main factors determining the durability of moulds is structure of their main metallic mass (which depends not only on chemical composition but also on the casting technology), the standard method of sample preparation should be introduced. 3) It would be advantageous to standardise the position of casting specimens for the investigation of microstructure at the middle of the mould height at its external side and of the size not less than half of the width of the mould wall. 4) It is necessary that during casting of moulds the following structures of the metal should be obtained (structurally free cementite should be absent in all cases). a) pearlitic and pearlitic-ferrite with the amount of ferrite 10-40% and fine graphite (for moulds which are

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Summary of the Discussion on the Quality of Ingot Moulds

usually taken out of service primarily due to internal fissures; b) ferrite-pearlite with a proportion of ferrite of 50-80% and with medium or coarse graphite (for moulds which are usually taken out of service mainly due to cracking). 5) In order to prevent structural non-uniformity during casting ingot moulds in semi-permanent moulds, metallic ribs and flanges of mould boxes should not be close to the ingot-mould body; they should be isolated by a coating not less than 25-30 mm thick. 6) In new standards, the requirements regarding chemical composition should be divided into three groups according to the weight and the design of the ingot moulds. The appropriate recommendations are given in Table 2. 7) New standards should include casting in of reinforcing steel bandages. 8) The composition of cupola charge for ingot moulds should be standardised. 9) The content of scrap should not exceed 35-40% and the proportion of fresh iron should amount to 45-50% and should be so calculated that no addition of blast furnace ferrosilicon is necessary. 10) The content of basic pig in the cupola charge of up to 15% is permissible and silicon content can be corrected by an addition of ferrosilicon. 11) In case of an unsatisfactory

Summary of the Discussion on the Quality of Ingot Moulds

cupola charge and an increased proportion of scrap (above 40%) modification of the iron in the ladle at 1 250 - 1 300 °C with 75% or 45% ferrosilicon is necessary. 12) Service conditions of ingot moulds should be improved by not permitting: a) retention of ingots in moulds above the required time; b) positioning of moulds too near to each other during teeming, c) the use of hot (above 100-120 °C) moulds and securing as far as possible their natural cooling (spraying with water only from a temperature not exceeding 250 °C); d) deviations of the steel stream from the axial direction. 13) Taking into consideration the latest developments in casting ingot moulds directly from hot-blast furnace iron, appropriate standards for casting such moulds should be developed. 14) To organise an appropriate

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Summary of the Discussion on the Quality of Ingot Moulds

Organisation for co-ordinating and supervising the research work on the subject, for promoting exchange of experience between works and for the introduction of a rational specialisation and co-operation.
There are 4 tables and 24 references, 20 of which are Soviet and 4 English.

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S/725/61/000/003/001/008

AUTHORS: Akhmatov, A.P., Zinov'yev, O.A., Chernetskiy, A.V.

TITLE: Some microwave methods for the measurement of electron concentrations in a plasma.

SOURCE: Nekotoryye voprosy tekhniki fizicheskogo eksperimenta pri issledovanii gazovogo razryada; nauchno-tekhnicheskiy sbornik, no. 3. A.V. Chernetskiy & L.G. Lomize, eds. Moscow, Gosatomizdat, 1961, 3-30.

TEXT: This is a state-of-the-art report on the use of microwave methods for the measurement of various parameters (electron density, temperature, collision energy losses, etc.) of the plasma of a gaseous discharge without introducing additional electrons and, hence, perturbations into the plasma. The primary objective of this paper is the electron-concentration determination by means of (1) microwave transillumination, and (2) by interferometry. Macroscopic Maxwellian theory of electromagnetic waves in an ionized gas is expounded in conformity with Al'pert, Ya.L., Ginzburg, V.L., Feynberg, Ye.L. Rasprostraneniye radiovoln (Radiowave propagation). Moscow, Gostekhizdat, 1953. In the resulting equation for the propagation of a normally incident plane electromagnetic wave, the dependence of the global specific inductive-capacitance term on the properties of the plasma remains

to be explored. This is expressed in terms of the ratio between the in-plasma wavelength and the free-space wavelength, n, and of the absorption index, γ. The effect of an external constant magnetic field on an ionized gas, which causes the electrons in the electric field of an electromagnetic wave to follow curvilinear trajectories under the influence of the Lorentz force, is investigated, and it is concluded that the specific inductive capacitance of an ionized gas is linearly dependent on the electron density both in the presence and in the absence of an external magnetic field. A summary description of the plasma-transillumination method is given with reference to writings by Dolgov-Savel'yev, G.G., ZhETF, v. 38, no. 2, 1960, 394, and Trans. 2d Internat'l Conf. on the Peaceful Uses of Atomic Energy, Soviet papers, 1. Nuclear Physics (in Russian). Moscow. Atomizdat, 1959, 85; Vvedenov, A.A., et al., Trans. Internat'l Conf. ..., p. 143; Harding et al., ibid., foreign papers, 1. The physics of hot plasma and thermonuclear reactions, p. 653; also Lomize, L.G., Nekotoryye voprosy ..., no. 3, 1961, 31 (Abstract S/725/61/000/003/002/008). The method merely ascertains whether the electron concentration is smaller (when the plasma is transparent to the wave emitted by the transillumination device) or greater (when the [illegible] influence ceases because the refraction index and and the inductive capacitance go to zero) than the critical concentration, but does not indicate its absolute value. The Harding multiple-frequency method is not viewed as advantageous since the simultaneous use of several microwave

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Some microwave methods ...

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generators appears to difficult an engineering task to be practicable. The history of the adaptation of methods previously used in optics to the determination of microwave-propagation characteristics by phase and amplitude comparison is briefly reviewed and major attention is focused on the microwave interferometer described by Wharton, C.B., & Slager, D.M., in IRE Trans. Nucl. Sci., v. NS-6, no. 3, 1959, 20, and in J. Appl. Phys., v. 31, no. 2, 1960, 428. This system, which comprises a measuring and a reference channel, serves well with relatively weak discharges in a gas, but is increasingly affected by noise at greater discharge intensities. The device proposed by Dropkin, H.A., IRE Nat. Conv. Rec., v. 6, no. 1, 1958, 57, which employs a frequency shifter, is described and termed more noise-proof and more accurate. The inadequate time-resolving power of this device is said to be overcome by the employment of two super-HF generators as proposed by Thompson, M.C., & Vetter, M.J., Rev. Scient. Instrum., v. 29, no. 2, 1958, 148, which is described in detail, and operational procedures specified by Wharton, Howard, et al., in the Trans. 2d Internat'l Conf. etc., 1959, 675, are reported. There are 11 figures and 23 references (12 Soviet, 7 English-language, and 9 English-language papers in their Russian translation).

ASSOCIATION: None given.

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ACC NR: AM6023687 Monograph 59 B+1 UR/

Chernetskiy, Aleksandr Vasil'yevich; Zinov'yev, Oleg Anhtol'yevich; Kozlov, Oleg Vasil'yevich

Apparatus and methods for plasma studies (Apparatura i metody plazmennykh issledovaniy) Moscow, Atomizdat, 65. 0363 p. illus., biblio. 3,190 copies printed.

TOPIC TAGS: plasma measurement, plasma radiation, plasma research, plasma diagnostics

PURPOSE AND COVERAGE: The techniques and equipment for investigating the basic parameters of a plasma, e.g., charged particle density, particle temperature, degree of ionization, etc, are considered. After a brief discussion of the properties of a plasma, superhigh frequency techniques and apparatus are described, including antenna, waveguide, and oscillator systems. Measurements of plasma radiation in the radio and submillimeter regions are discussed together with the instrumentation requirements. The final section of the book is devoted to corpuscular properties of a plasma: neutral and charged particle flux, pressure, and composition of the plasma. The use of tritium, atomic, and molecular beams for probing plasmas is discussed. The book concludes with two appendices; the first contains tables describing equipment used for plasma measurements, the second contains discharge and stripping cross section and energy tables.

TABLE OF CONTENTS [abridged]:

Card 1/3 UDC: 533.9.07

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L 01999-67

ACC NR: AM6023687

SUB CODE: 20/ SUBM DATE: 25Nov65/ ORIG REF: 310/ OTH REF: 102

Card 3/3

ZINOV'YEV, P.

New residential area in the capital. Na stroi.Ros. 3 no.8:16-17 Ag '62. (MIRA 15:12)

1. Rukovoditel' arkhitekturno-proyektnoy masterskoy No.11 Upravleniya po proyektirovaniyu "Mosproyekt."
(Moscow—City planning)

ZINOV'YEV, P.

Vasilii Alekseevich Giliarovskii. Zhur.nevr. i psikh. 56 no.4: 358-360 '56. (MLRA 9:7)
(GILIAROVSKII, VASILII ALEKSEEVICH, 1876-)

ZINOV'YEV, P.M., prof., nauchnyy red.; KUDINOVA, I.M., red.; MAL'KOVA, N.V., tekhn. red.

[Disability evaluation and the clinical aspects of psychopathy, neuroses, and reactive psychoses; works of the Central Research Institute for Disability Evaluation and Rehabilitation of Disabled Workers] Vrachebno-trudovaia ekspertiza i klinika psikhopatii, nevrozov, reaktivnykh psikhozov; nauchnye trudy instituta. Moskva, 1960. 93 p. (MIRA 14:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut ekspertizy trudosposobnosti i organizatsii truda invalidov.
(DISABILITY EVALUATION) (MENTAL ILLNESS)

KAMENEVA, Ye.N., prof., otv.red.; AKOPOVA, I.L., red.; ZINOV'YEV, P.M., prof., red.

[Initial stages in mental diseases; collection of articles read at a meeting of the Institute of Psychiatry of the Academy of Medical Sciences of the U.S.S.R., June 1959] Nachal'nye stadii psikhicheskikh zabolevanii; sbornik nauchnykh rabot, dolozhennykh na sessii Instituta psikhiatrii AMN SSSR v iiune 1959 g. Moskva, 1959. 86 p. (MIRA 14:5)

1. Akademiya meditsinskikh nauk SSSR. Institut psikhiatrii.
(MENTAL ILLNESS)

ZINOV'YEV, P.M.

Regularities and variants in the course of schizophrenia. Vop. psikh. no. 3:130-137 '59. (MIRA 13:10)
(SCHIZOPHRENIA)

KRASNUSHKIN, Yevgeniy Konstantinovich, prof., zasluzhennyy deyatel' nauki [deceased]; BANSHCHIKOV, V.M., red.; ZINOV'YEV, P.M., red.; KRASNUSHKINA, M.A., red.; GUREVICH, L.A., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Gos.izd-vo med.lit-ry, Medgiz, 1960. 607 p. (MIRA 13:11)
(PSYCHIATRY)

FEDOTOV, D.D., otv.red.; LEBEDINSKIY, M.S., zam.otv.red.; AZBUKINA, V.D., red.; ZINOV'YEV, P.M., red.; KAMENEVA, Ye.N., red.; ROZHNOV, V.Ye., red.; ROKHLIN, L.L., red.; SIMSON, T.P., red.; SUKHAREBSKIY, L.M., red.; GUREVICH, L.A., red.

[Current problems in psychiatry: Vascular diseases of the brain. Schizophrenia. Mental health and psychoprophylaxis] Aktual'nye problemy psikhiatrii; sosudistye zabolevaniia golovnogo mozga. Shizofreniia, psikhogigiena i psikhoprofilaktika. Moskva, 1959. 506 p. (MIRA 14:1)

1. Vsesoyuznoye obshchestvo nevropatologov i psikhiatrov.
(MENTAL ILLNESS) (BRAIN--BLOOD VESSELS)

ZINOV'YEV, P.M.; MIKHAYLOV, A.K.; KHACHATURYAN, A.A. (Moskva)

Review of the book "Textbook of psychiatry" by O.V. Kerbikov, N.I. Ozeretskiy, Ye.A. Popov, A.V. Snezhnevskiy. Klin.med. 37 no.9:156-158 S '59. (MIRA 12:12)
(PSYCHIATRY) (KERBIKOV, O.V.) (OZERETSKIY, N.I.)
(POPOV, Ye.A.) (SNEZHNEVSKIY, A.V.)

BOGOLEPOV, N.K., ZINOV'YEV, P.M. (Moskva)

Catamnesis and creative activities of encephalitis patients [with summary in French]. Zhur.nevr. i psikh. 58 no.6:686-698 '58 (MIRA 11:7)

(ENCEPHALITIS, compl.
paralysis agitans, artistic & ment. faculties in various stages of dis. (Rus))
(PARALYSIS AGITANS, etiol. & pathogen.
epidem. encephalitis, artistic & ment. faculties in various stages of dis. (Rus))

BOGOLEPOV, N.K.; ZINOV'YEV, P.M. (Moskva)

Specific dream-like conditions in encephalitis. Zhur. nevr. i psikh 59 no.3:324-333 '59. (MIRA 12:4)
(ENCEPHALITIS, EPIDEMIC, case reports with hallucinations (Rus))
(HALLUCINATIONS, etiol. & pathogen. epidem. encephalitis (Rus))

ZINOV'YEV, P.M.

FEDOTOV, D.D.; ZINOV'YEV, P.M., redaktor

[Historical sketches of Russian psychiatry] Ocherki po istorii otechestvennoi psikhiatrii. Moskva, M-vo zdravookhraneniia SSSR. Vol.1. [Second half of the 18th and first half of the 19th century] Vtoraia polovina XVIII i pervaia polovina XIX veka. 1957. 319 p.
(Psychiatry--History) (MLRA 10:10)

ZINOV'YEV, P.M. (Moskva); MIKHAYLOV, A.K. (Moskva); KHACHATURYAN, A.A. (Moskva)

"Psychiatry." V.A.Giliarovskii. Reviewed by P.M.Zinov'ev, A.K. Mikhailov, A.A.Khachaturian. Klin.med. 34 no.9:93-95 S '56. (MLRA 9:11)
(PSYCHIATRY)
(GILIAROVSKII, V.A.)

ZINOV'YEV, S.I.

Measures for eliminating and reclaiming saline spots on irrigated lands. Izv. AN Uz.SSR no.2:47-53 '56. (MLRA 10:3)
(Uzbekistan--Alkali lands) (Leaching)

SOV/3-58-11-34/38

AUTHOR: Zinov'yev, S.I., Candidate of Pedagogical Sciences

TITLE: New Books on the History of Higher Education (Novyye knigi po istorii vysshego obrazovaniya)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 11, pp 86 - 92 (USSR)

ABSTRACT: The article contains reviews of the following books: "University Education in the USSR" by A.S. Butyagin and Yu.A. Saltanov; "Agricultural Education in the USSR" by K.A. Ivanovich, and "Higher Education and the Training of Scientific Personnel in the USSR" by K.T. Galkin. There are 2 Soviet references.

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ZINOV'YEV, S.I.

AUTHOR: Zinov'yev, S.I., Dotsent 3-1-31/32

TITLE: Questions of Method Discussed in Vuz Publications (Voprosy metodiki v vuzovskikh izdaniyakh)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 1, pp 87-94 (USSR)

ABSTRACT: The article contains a bibliographical review of essays, principally on questions of improving instructional lectures. The essays have either appeared as separate publications or been printed in the "Scientific Transactions" of institutes and universities in 1956-1957.

The reviewer states that during the last years the interest of vuz instructors for methodical questions has noticeably increased. A number of scientific-methodical conferences has been held and works were published. Almost all the authors admit that the success of instruction by lecture depends primarily on the extent the lecturer has prepared himself, but also on his ability and the methodical preparation of every lecture, and of the course as a whole.

The first work under review is that of professor L.P. Grossman "The Skill of the Lecturer". Taking examples from the practice of renowned lecturers and scientists, he shows the influence a lecture on humanitarian science has on stu-

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dents, depending upon the means used by the instructor. The reviewer then deals with some controversial conclusions set forth in professor Grossman's book, such as "the lecture - a phenomenon of art" or "the necessity of a free improvisation", etc.

The reviewer further mentions 2 articles of professor A.N. Yegornov and professor N.M. Mitropol'skiy published in the Scientific-Methodical Collection (Nauchno-metodicheskiy sbornik) of the Moscow Institute of RR Engineers imeni I.V. Stalin (Moskovskiy institut inzhenerov zheleznо-dorozhnogo transporta im. I.V.Stalina). The basic idea of these articles is: the lectures should be founded on a principle which furthers the development of the students' self-activity.

Much in common with these articles has the work of professor L.S. Freyman "The Method of Preparing Lectures". The author emphasizes the principal side of instruction by lecture - conveying scientific knowledge, at the same time bearing in mind, however, that a lecture is a kind of public appearance, and as such it is a subject to be carried out with skill. The author's point of view on the connection between lecture and textbook is regarded by the reviewer as somewhat simple, whereas the opinion of professor L.A. Mendel'son expressed

in the article "On the Method of Preparing and Holding Lectures on Political Economy" (published in the Collection of Materials of the Scientific-Methodical Conference, Moscow State Economic Institute - Sbornik materialov nauchno-metodicheskoy koferentsii, 1957, Moskovskiy gosudarstvennyy ekonomicheskiy institut) is regarded as rather convincing. He thinks that lectures consisting of the repetition of a textbook are superfluous.

Much attention to the lecturing problem was paid by the methodical conference at the Perm' University in April-May last year. The theses of the reports and information submitted have been published. The reviewer deals at length with the theses of I.M. Zakharov, whose solutions of a number of questions he considers to be wrong.

The reviewer further mentions the article of E.Yu. Lokshin "On the Method of Preparing and Holding Lectures on Economical Disciplines"; T.V. Mukhina "On the Question of a Methodical Reading of Lectures on the KPSS History"; N.P. Sibel'din "Seminar on Social Sciences"; S.I. Smetanin "The Method of Conducting Seminars and Special Seminars on Historical Disciplines"; I.I. Kazakov "On the Self-Activity of Students in Social Economical Disciplines"; dotsent V.Ye.

Questions of Method Discussed in Vuz Publications

3-1-31/32

Kontorovich (Moscow State Economic Institute) has written on the instructor's attitude towards the student during the practical training; the same subject is discussed in V.I. Petrov's article "Methodical Questions in Conducting Practical Training in Bookkeeping".

In conclusion the reviewer mentions approvingly the work of A.F. Kireyeva "Studies on Lectures at a Higher School". He states that the beginning lecturer will find many recommendations therein and will arrive at quite a few useful conclusions.

There are 6 Russian references.

AVAILABLE: Library of Congress

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ZINOV'YEV, S.I.

New systems of dam units with a central two-sided water intake.
Izv.AN Uzb.SSR.Ser.tekh.nauk. no.6:91-99 '59. (MIRA 13:4)

1. Institut vodnykh problem i gidrotekhniki AN UzSSR.
(Dams)

ZINOVYEV, S. I.

"On the Methods of (Student) Examinations," Vest Vyssh shkoli, No 3, pp 61-64, 1953

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ZINOV'YEV, S. I.

Hydraulic Models

Peculiarities in the placing of dampers on the spillways of a central, two-sides dam, and results of observations on models, Gidr. i mel. 4 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952, UNCL.

ZINOV'YEV, S. I.

Spillways

Peculiarities of the placing of dampers on the spillways of a central, two-sided dam, and the results of observations on models. Gidr. i mel. 4, no. 8, 1952.

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

GOL'DENBERG, I.P.; ZINOV'YEV, S.T.; KARIMOV, F.M.

Rapid method of determining the airtightness of open-hearth furnaces. Metallurg 10 no.1:16-17 Ja '65. (MIRA 18:4

1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy gornometallurgicheskiy institut.

ZINOV'YEV, T.

Improve work with personnel and increase bank control. Fin. SSSR 21 no.6:34-39 Je '60. (MIRA 13:6)

1. Zamestitel' predsedatelya Pravleniya Stroybanka SSSR.
(Construction industry--Finance) (Banks and banking)

ZINOV'YEV,V., inzhener

Attachment for stamping textolite washers. Avt. transp. 33 no.4:28 Ap '55. (MLRA 8:7)

(Washers (Mechanics))

ZINOV'YEV, V.

ZINOV'YEV, V.

Reinforced concrete scaffold bridges used in servicing automobiles. Avt. transp. 35 no.12:28-29 D '57. (MIRA 11:1)
(Automobiles--Maintenance)

ZINOV'YEV, V.

Worm pulley block with electric drive. Avt. transp. 36 no.3:29 Mr '58. (MIRA 11:3)

(Pulleys)

ZINOV'YEV, V.

New panel carrier. Avt. transp. 37 no.9:51 S '59.
(MIRA 12:12)
(Truck trailers)

ZINOV'YEV, V., inzh.

Mechanism for opening garage doors. Tekh.v sel'khoz. 21 no.8:86 Ag '61. (MIRA 14:7)

(Garages)

ZINOV'YEV, V.; NORKIN, Ya.

Practices for improving the qualifications of engineers and technicians. Avt.transp. 39 no.6:50 Je '61. (MIRA 14:7)
(Highway transport workers—Education and training)

ZINOV'YEV, V.

Device for reseating the valves of pump and injector units. Avt. transp. 39 no.6:53 Je '61. (MIRA 14:7)
(Diesel engines—Valves)

ZINOV'YEV, V.

Device for cutting nuts. Avt.transp. 39 no.12:43 D '61.
(MIRA 15:1)
(Tools)

ZINOV'YEV, V., inzh.

Device for pressing out swivel pins. Avt.transp. 40 no.1:52 Ja '62. (MIRA 15:1)

(Machine-shop practice)

ZINOV'YEV, V.

Device for checking windshield wipers. Avt.transp. 40 no.2:52 F '62. (MIRA 15:2)
(Automobiles--Apparatus and supplies--Testing)

ZINOV'YEV, V.

Equipment for the collection of used oils. Av.transp. 40 no.7:53 Jl '62. (MIRA 15:8)
(Garages—Equipment and supplies)

ZINOV'YEV, V.

Automatic air regulator used in tire inflation. Avt.transp. 41 no.4:32 Ap '63. (MIRA 16:5)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdeleniya Donetskogo avtomobil'nogo trusta.

(Air pumps—Safety appliances)

L 23518-66 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v)
ACC NR: AP6008731 (A) SOURCE CODE: UR/0356/65/000/011/0081/0082

AUTHOR: Zinov'yev, V. (Engineer)

ORG: Donets Automobile Production Trust "Glavdonbasstroy" (Donetskiy proizvodstvennyy avtotrest "Glavdonbasstroy")

TITLE: Electronic devices for motor pools

SOURCE: Tekhnika v sel'skom khozyaystve, no. 11, 1965, 81-82

TOPIC TAGS: detection, engine ignition system, vehicle engineering, electronic test equipment

ABSTRACT: The author describes some simple electronic devices used for automobile maintenance. One of these is a metal detector developed by Senior Laboratory Technician V. I. Prokhorov which may be used for locating nails and other metal objects embedded in automobile tires. A schematic circuit diagram and the operating principle of the unit are given. A probe is moved along the surface of the tire and the meter needle is deflected when a metal object is approached. The instrument is sensitive to metal buried 30 mm deep. Five small D-0.06 storage batteries are used for the power supply and the instrument weighs 280 g. An electronic device developed by Laboratory Technician Yu. P. Dron' may be used for checking ignition coils without removing them from the automobile. A description and schematic circuit diagram are given for this device. Orig. art. has: 4 figures.

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