

MITEL'MAN, B. I.: Master Tech Sci (diss) -- "The hydraulic computation of the circulation system of a drilling machine". Moscow, 1959. 16 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Inst of the Petroleum-Chem and Gas Industry im Acad I. M. Gubkin, Chair of "Drilling Petroleum and Gas Wells"), 150 copies (KL, No 13, 1959, 106)

MITELMAN, B.I.; ROZENBERG, G.D.

Calculating the maximum disintegrating power on a turbodrill  
shaft. Neft.khoz. 37 no.12:6-7 D '59. (MIRA 13:5)  
(Turhodrills)

MITEL'MAN, B.I. (Moskva); ROZENBERG, G.D. (Moskva)

Structural conditions of the flow of a viscous plastic fluid  
through a cylindrical pipe of circular cross section.

Izv. AN SSSR. Otd.tekh.nauk.Mekh. i mashinost. no. 4:164-166 JI-  
Ag '61. (NINA 14:8)

(Pipe—Hydrodynamics)

20316

S/020/61/137/001/006/021  
B104/B209

10.4100

26.2181

AUTHORS: Charnyy, I. A., Vil'ker, D. S. (Deceased), Mitel'man, B. I.,  
and Rozenberg, G. D.

TITLE: Two-phase supersonic flow

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 1, 1961, 48

TEXT: It is known that the temperature of a wall in a supersonic flow differs only little from the stagnation temperature of the flow at  $Pr \approx 1$ . However, a two-phase flow consisting of gas particles and particles of frozen liquid may be assumed to arise when a liquid with a freezing point considerably higher than the gas temperature is introduced into the gas flow. The temperature of the wall in the flow must then be much lower than the stagnation temperature of the gas. In order to check this assumption, an experiment was carried out at the Hydromechanical Laboratory of Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov). Through a Laval nozzle, water was introduced into a supersonic airstream ( $M = 1.2$  and  $M = 3$ ). The stagnation temperature of the airstream and the temperature of the

X

Card 1/2

20316

S/020/61/137/001/006/021  
B104/B209

X

Two-phase supersonic flow

water were both 15°C. The consumption of air and water by weight in these experiments was 0.12 and 0.02 kg/sec, respectively. Within 8-12 sec, a steel rod placed in the stream became covered by a crust of ice that was solidly bonded to the rod. Thickness and adhesive strength of this crust rise with the speed of flow. This phenomenon can probably be utilized in industry for cooling high-pressure gas wells and mains, as well as for cooling surfaces in a gas stream. A quantitative theory of this phenomenon will be presented later. [Abstracter's note: Complete translation.]

ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I. M. Gubkina (Moscow Institute of the Petrochemical and Gas Industry imeni I. M. Gubkin)

PRESENTED: June 10, 1960, by P. Ya. Kochina, Academician

SUBMITTED: June 9, 1960

Card 2/2

KOLEMASOV, A.I.; MITEL'MAN, B.I.

Laboratory study of the circulation in large shafts. Trudy  
VNIIBT no.6:141-149 '62. (MIRA 16:6)  
(Boring)

MITELMAN, Boris Il'ich; ROZENBERG, G.D., red.; ISAYEVA, V.V., ved.  
red.; VORONOVA, V.V., tekhn. red.

[Handbook on hydraulic calculations in drilling] Spravochnik  
po gidravlicheskim raschetam v bureni. Moskva, Gostoptekh-  
izdat, 1963. 252 p. (MIRA 16:3)  
(Drilling fluids)

LIPATOV, V.I.; MITELMAN, B.I.; ROZENBERG, G.D.

Calculating pressure losses in the flow of viscoplastic fluids  
through pipes; a topic for discussion. Neft. khoz. 41 no.3:12-  
17 Mr '63. (MIRA 17:11)



AYRIYANTS, A.S.; MITEL'MAN, B.I.; ROZENBERG, G.D.; SHUMILOV, L.P.

Removing well cuttings from the well bottom zone in turbine  
drilling. Neft.khoz. 41 no.10:19-22 O '63. (MIRA 17:4)

L 40761-55

ACCESSION NO: AP5012327

UR/0286/64/000/022/0072/0072

AUTHOR: Lizatov, V. I.; Mitel'man, B. I.; Rozenberg, G. D.; Shum'lov, L. P.

16  
15  
B

TITLE: Capillary viscosimeter of the closed type. Class 42, No. 166537

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1964, 72

TOPIC PASS: viscous flow, viscous fluid, laboratory instrument

Translation: This inventor's certificate introduces a capillary viscosimeter of the closed type for measuring the rheological characteristics of non-Newtonian fluids under normal conditions and under high temperature and pressure conditions. The instrument consists of two thick-walled thermostatically controlled vessels (booms) connected by a measuring line, a device for forced compression of the fluid being tested and a system for measuring pressure drops. In order to increase the accuracy in determining the rheological characteristics of the fluid being tested, the device for forced compression of the fluid is made in the form of balanced hydraulic plungers of different diameters. These plungers can be moved in any

Card 1/2

L 40751-65

ACCESSION NR: AP5012327

combination with one another or each individually at a constant speed. The measuring line consists of two series connected pipes of identical diameter but different length with identical geometry for the input and output of the fluid being studied.

Orig. art. has: 1 figure.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy tekhniki  
(All-Union Scientific Research Institute for Drilling Technology)

SUBMITTED: 00

ENCL: 00

SUB CODE: ME, GP

NO REF SOV: 000

OTHER: 000

JPRS

Card 2/2 MB

CHARNY, I.A.; MITEL'MAN, B.I.; ROZENBERG, G.D.

Cooling capacity of two-phase flows. Gaz. prom. 7 no.3:50-52  
'62. (MIRA 17:8)

MITEL'MAN, B.I.; ROZENBERG, G.D.; SHUMILOV, L.P.

Additional pressure losses in the annular space resulting  
from the conveyance of cuttings. Trudy VNIIBT no.9:24-31 '63.  
(MIRA 17:9)

YANKELEVICH, Mikhail Nikolayevich; SELIVANOV, V.A., retsenzent;  
MITEL'MAN, B.Ye., retsenzent; SHCHEDRIN, B.Ye., red.;  
SLUTSKER, M.Z., red.izd-va; GRECHISHCHEVA, V.I., tekhn.  
red.

[Analysis of the administrative operation of a lumbering  
enterprise] Analiz khoziaistvennoi deiatel'nosti lesoza-  
gotovitel'nogo predpriatiia. Moskva, Goslesbumizdat,  
1963. 262 p. (MIRA 17:3)

MAN'KIV, 'KA, N.K.; HEN'KWA, S.I.; P'KHOTINS'KA, L.V. [Rehozyna's'ka. S.V.];  
MTEHL'MAN, R.Ia.

Spectrophotometric determination of diphenyl in distilled  
C<sub>17</sub>-C fatty acids. Khim. prom. [Ukr.] no.4:61-63 1963.  
(MIR: 17:6)

STEMPKOVSKAYA, L.A.; VLASENKO, I.V.; MITEL'MAN, B.Yu.

Removal of zinc salts from waste waters on a semi-industrial unit.  
Khim. volok. no.1:33-36 '62. (MIRA 18:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR (for Stempkovskaya, Vlasenko). 2. Kiyevskiy kombinat (for Mitel'man).



MAN'KOVSKAYA, N.K.; ZHURBA, A.S.; GRUSHEVENKO, V.I.; TRIANDAFILIDI, I.G.;  
STERKHOVA, L.N.; PIGUL'SKAYA, R.I.; MITEL'MAN, B.Yu.

Chemical changes in synthetic fatty acids during the rectification  
process under plant conditions. Khim. i tekhn. topl. i masel 10  
no.2:24-27 F '65. (MIRA 18:8)

1. UkrNIIGIPRONFT'.

MITEL'MAN, G. M.

"Observations of Skin Reactions with Corpuscular Streptococcus Antigen in Scarlet Fever Patients." Cand Med Sci, Stalinbai Medical Inst, Stalinbai, 1953.  
(RZhBiol, No in Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

SHAPIRO, S.Ye.; MITEL'MAN, G.N.

~~Chloramphenicol therapy of typhoid fever in children.~~  
Chloramphenicol therapy of typhoid fever in children. *Pediatrics* no.2:  
86-87 Mr-Apr '54. (MIRA 7:6)

1. Iz Stalinabadskey gorodskoy infektsionnoy bol'nitsy.  
(CHLORAMPHENICOL) (TYPHOID FEVER)

*Mitelman, G. M.*

MITELMAN, G. M.

"Aristovskiy's Reaction in Scarlet Fever Patients."  
Stalinabad State Medical Inst imeni Abuali ibn-Sina, Stalinabad, 1955.  
(Dissertation for the Degree of Candidate in Medical Sciences)

SO: M-955, 16 Feb 56

MITEL'MAN, G.M.; KAMARDINOV, Kh.K.

Clinical peculiarities of the course of influenza in children during  
the 1957 outbreak in Stalinabad. Zdrav. Tadzh. (no.6:15-19 '59.  
(MIRA 13:4)

1. Iz kafedry infektsionnykh bolezney (rav. - dotsent D.M. Khashimov)  
Stalinabadskogo medinstituta imeni Abuali ibni Sino.  
(STALINABAD--INFLUENZA)

MITEL'MAN, L.M., kand.tekhn.nauk data.

Torsion of rods having a cross section shaped as a circle cut-  
off by two parallel chords. Rasch.na prochn. no.4:179-204  
'59. (MIRA 13:4)

(Elastic rods and wires)

ACC NR: AP6031345

(A)

SOURCE CODE: UR/0219/66/062/009/0069/0071

AUTHOR: Mitel'man, L. Sh.

ORG: Department of Preliminary Instruction in Internal Diseases, Altai Medical Institute/director-docent Z. S. Barkagan/, Barnaul (Kafedra propedevtiki vnutrennykh bolezney Altayskogo meditsinskogo instituta)

TITLE: Action of Central Asiatic cobra venom on the blood coagulating system

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 62, no. 9, 1966, 69-71

TOPIC TAGS: cobra, reptile, cobra venom, toxicity, anticoagulant effect, blood circulation, toxin, blood disease, blood coagulation

ABSTRACT: The toxic and anticoagulant effects of Asiatic cobra venom on blood coagulation were studied *in vitro*. Dilutions of 1:800 to 1:100 completely inhibit coagulation; dilutions of 1:1000-1:50,000 decelerate it and inhibit fibrin formation. The toxin has an antithromboplastin effect but no antithrombin effect. The anti-coagulant part of the toxin is thermolabile and is inactivated by heating for 10 min at 80-100°C. [WA-50; CB: No. 12]

SUB CODE: 06/ SUBM DATE: 26Jan65/ ORIG REF: 006/ OTH REF: 010/

Card 1/1

UDC: 615.94:598.1]-092:612.115+612.115.3

MITEL'MAN, L.V.

Two-coordinate wide-strip unit of the DShU-M type for the recording of magnetization curves for ferromagnetic materials in dynamic conditions. Trudy inst. Kom.stand.mer i izm. prib no.64:179-186 '62. (MIRA 16:5)  
(Magnetic measurements--Equipment and supplies) (Magnetostriction)



SEMENOVA, N.A.; MITEL'MAN, L.V.

Dynamic magnetization loops of 65NP and 79NM alloys at frequencies  
up to 10 c.p.s. Elektrichestvo no.9:67-69 S '63. (MIRA 16:10)

L. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy  
metallurgii.

7(6), 9(0)

SOV/32-25-1-25/51

AUTHORS:

Mitel'man, M. G., Zemlyanova, L. I., Frimer, A. I.

TITLE:

Methods of Dissolving Intermediary Layers in the Preparation of Electron Microscopic Objects (Metody rastvoreniya promezhutochnykh sloyev pri preparirovani elektronno-mikroskopicheskikh ob"yektov)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 1, pp 62 - 64 (USSR)

ABSTRACT:

Collodium, quartz, beryllium etc. are used for the preparation of object support laminas in electronic microscopes. The solvent employed may, however, act upon the lamina in a way as to impair its transparency. Three different methods were investigated in the present case, with the purpose of reducing the solvent action to a minimum. A device was elaborated for the method of the capillary addition of the solvent (Fig 1). The specimen holder is situated in a closed glass container (with outlet and overflow tube), to which a dropping funnel conveys the solvent (amyl acetate) that, reaches the collodium by the capillary force. The dropping method is

Card 1/2

Methods of Dissolving Intermediary Layers in the  
Preparation of Electron Microscopic Objects

SOV/32-25-1-25/51

based on dissolution in a fresh solvent. The device (Fig 2) is basically similar to the above mentioned, with the sole difference that the specimen holder (nickel lamina) is in an inclined position and the solvent continuously flows over it. In the vapor method the solvent is vaporized (Fig 3), with the specimen holders being in the vapor phase. Laminas with an absorption of only 0.05 can be obtained by employing the method described (as compared to those obtained by the usual dipping method and equalling 0.16). There are 3 figures.

Card 2/2

S/089/61/010/001/02/020  
3006/BC63

26.1640

AUTHORS: Mitel'man, M. G., Yerofeyev, R. S., Rozenblyum, N. D.

TITLE: Conversion of Energy of Short-lived Radioactive Isotopes

PERIODICAL: Atomnaya energiya, 1960, Vol. 10, No. 1, pp. 72-73

TEXT:  $\alpha$ - and  $\beta$ -active isotopes produced by interaction between neutrons and matter may be used as emitters of charged particles, and a potential difference can be effected by gathering these particles on a collector. Basing on this principle, it is possible to build converters consisting of an emitter and a collector which are separated by a solid dielectric or a vacuum. The current supplied by such a converter is proportional to the number of charged particles leaving the emitter.  $A = (N_a \sigma n G / M) (1 - \exp(-0.693t/T))$ , where  $N_a$  is the Avogadro number;  $\sigma$  is the neutron capture cross section;  $n$  is the neutron flux;  $G$  is the mass of the emitter;  $M$  is the atomic weight of the emitter substance;  $T$  is the half-life of the forming isotope; and  $t$  is the time of irradiation of the emitter. If  $t$  is much greater than  $T$ , the number of charged particles is independent of

Card 1/3

Conversion of Energy of Short-lived Radioactive Isotopes S/069/60/010/001/012/020  
B006/2063

time, and if  $t$  is much smaller than  $T$ , it is proportional to the time of exposure; this means that only a substance with the smallest possible value of  $T$  will ensure steady operation of the converter. Moreover,  $\tau$  should be as great as possible. Experiments were made with  $Rh^{103}$  ( $\alpha = 150$  b). The resulting  $Rh^{104}$  emits  $\beta$ -particles with an energy of 2.5 Mev and has a  $T$  value of 41.8 sec. Such an element consists of a rhodium wire (diameter, 0.8 mm; weight, 0.42 g) which is coated with an isolating varnish and a polyethylene film 1.5 mm, and is placed in an aluminum container serving as a collector. The element was placed in a hole of the research reactor of the Institut atomnoy energii AN SSSR im. I.V.Kurchatova (Institute of Atomic Energy AS USSR imeni I. V. Kurchatov). There, it was exposed to a neutron flux of  $10^{12}$  n/cm<sup>2</sup>.sec ( $4.2 \cdot 10^{-8}$  a; external resistance,  $10^{10}$  ohms, 420 v). The electrons released by neutron bombardment can supply a current of  $6 \cdot 10^{-8}$  a which is, however, reduced by absorption. Thereupon, the converter was introduced into a hole with  $10^{10} - 10^{11}$  n/cm<sup>2</sup>.sec. The current dropped to  $1.6 \cdot 10^{-9}$  a within two minutes. Such a converter may be used as a source of constant high frequency and for the determination of neutron fluxes. Finally, the optimum choice of  $\tau/T$  for a given neutron

Card 2/3

Conversion of Energy of Short-lived Radioactive  
Isotopes

S/089/01/010/001/012/020  
B006/B063

flux is discussed. The optimum value corresponds to an equilibrium concentration of the isotope obtained and ensures steady operation. There are 1 figure and 1 Soviet reference.

SUBMITTED: April 22, 1960

X

Card 3/3

BUSHUYEVA, G. I.; MITEL'MAN, M. G.

Clinical bacteriological characteristics of diphtheria in vaccinated and nonvaccinated children; according to data from Dushanbe. Zdrav. Tadzh. 9 no.2:20-23 Mr-Apr '62. (MIRA 15:7)

1. Iz Dushanbinskogo instituta epidemiologii i gigiyeny i kafedry infeksionnykh bolezney (zav. - dotsent D. M. Khashimov) Dushanbinskogo meditsinskogo instituta imeni Abuali ibni Sino.

(DUSHANBE--DIPHThERIA--PREVENTIVE INOCULATION)

MITEL'MAN, M.G.

Determination of current density at electrodes in the case of  
a two-dimensional problem. Zhur.fiz.khim. 36 no.5:1039-1041  
My '62. (MIRA 15:8)

1. Vsesoyuznyy institut istochnikov toka.  
(Electric currents) (Electrodes)



MITEL'MAN, M.G.

Current density distribution on electrodes in the case of a three-dimensional problem in the absence of polarization. Zhur.fiz.khim. 36 no.8:1771-1773 Ag '62. (MIRA 15:8)

1. Vsesoyuznyy institut istochnikov toka.  
(Electromotive force) (Electrodes)

ACCESSION NR: AP4029696

S/0089/64/016/004/0351/0353

AUTHORS: Kononovich, A.A.; Mitel'man, M.G.; Rozenblyum, N.D.

TITLE: Calculating the nuclear sources of a direct-charge current

SOURCE: Atomnaya energiya, v. 16, no. 4, 1964, 351-353

TOPIC TAGS: energy conversion, radioactive radiation, particle spectrum, Sr sup 90, I sup 90, isotope, charging current, emitter, collector, infinite electrode, self absorption, duraluminum

ABSTRACT: Described in this report is an attempt to calculate a voltage source produced by a direct charge based on a simple principle. The primary beta-particles of a radioactive isotope escape from an emitter and gather in a collector. The charging current produces a potential difference between the electrodes located in a high vacuum, and is determined by the general activity and spectrum of the beta-particles of the employed radioactive preparation. It is determined also by the voltage on the source electrodes, the geometry of the electrodes, the leakage current produced on the collector by the secondary emission of beta-particles, and the self-

1/2

Card

ACCESSION NR: AP4029696

absorption of beta-particles which reduces the effectiveness of the preparation and displaces the peak of the beta-particle spectrum in the direction of higher energies. The emitter consisted of a plate measuring 100 x 60 mm;  $Pm^{147}$  preparations were attached onto that plate. The sheet duraluminum lining the walls of the vacuum chamber served as a collector. The insulation resistance was about  $10^{14}$  ohms, and the capacitance of the system about 10 picofarads. The discrepancy between the experimental and estimated results can be explained by the inaccurate definition of such parameters as resistance, capacitance, activity, etc. Orig. art. has: 2 figures and 3 formulas.

ASSOCIATION: None

SUBMITTED: 14Mar63

DATE ACQ: 01May64

ENCL: 00

SUB CODE: NF

NR REF SOV: 002

OTHER: 003

Card

2/2

MITEL'MAN, M.G., inzh.; KONONOVICH, A.A., inzh.; ROZENBLYUM, N.D., doktor  
khimicheskikh nauk; KIRSANOV, V.S., inzh.; ZEGADYKH, V.A., tekhnik

Nuclear high-voltage sources. Elektrotehnika 35 no.7:42-44 '64.  
(MIRA 17:11)

NITEL'MAN, M.I.

Defective production of porcelain and faience goods and their  
delivery to the Technical Control Division at first presentation.  
Iss. prom. no. 2022-23 Apr-Je '65. (MIRA 18:10)

MITELMAN, M.I., inzh.; SHELEPOV, V.A., inzh.

Redesigning of a turbogenerator ventilation system. Energetik, 13  
no. 10:17-18 0 '65. (MIRA 18:10)

KITTEL'MAN, M.M.; BUSHUYEVA, G.I.; YELFIMOVA, V.Z.

Production of adsorbed purified diphtherial anatoxin. Zhur.mikro-  
biol.epid. i immun. 27 no.12:39-42 D '56. (MLRA 10:1)

1. Iz Stalinabadskogo instituta epidemiologii i gigiyeny.  
(CORONEBACTERIUM DIPHTHERIAE, immunology,  
anatoxin, prod. of adsorbed purified prep. (Rus))

Thermographic investigation of acid-proof cements.  
S. S. Bondarovsky and M. K. Mikhlin. *Izv. Akad. Nauk SSSR, Ser. Khim. i Fiz. 26*, 13-21 (1953). *Chem. Phys. R.* 26, 13-21 (1953). *Priklad. Khim.* 26, 13-21 (1953). The acid-proof cement was composed of filler (quartz sand, ande-sit, diatom), water glass of various moduli ( $\text{SiO}_2/\text{Na}_2\text{O}$ ), and  $\text{Na}_2\text{SiF}_6$ . It was found that: (1) heating these cements from room temp. to  $600^\circ$  caused an irreversible endothermal effect at  $100^\circ$  (loss of  $\text{H}_2\text{O}$ ) and a reversible endothermal effect at  $570^\circ$  (transition  $\alpha$ -quartz  $\rightarrow \beta$ -quartz); (2) tech.  $\text{Na}_2\text{SiF}_6$  showed an exothermal effect at  $400^\circ$ , preceding the endothermal effect of removing traces of hygroscopic moisture and a mild endothermal transition in the  $400$ - $415^\circ$  region; an endothermal effect at  $550^\circ$  (violent decomposition of  $\text{Na}_2\text{SiF}_6$ ); (3) the temp. interval from  $100$ - $575^\circ$  is a satisfactory working range for cements initially heated to  $100^\circ$ ; on repeated heating of these cements, the single reversible thermal effect at  $570^\circ$  is preserved; (4) excess  $\text{Na}_2\text{SiF}_6$  in acid-proof cements is harmful since it decomposes, with gas evolution, at  $542$ - $550^\circ$ ; (5) a different reaction occurs between  $\text{Na}_2\text{SiF}_6$  and high- and low-modulus water glass. H. A. G.



U S S R .

Interaction of liquid glass and Na-SiF<sub>6</sub> in acid-resistant cements. N. S. Ponomarevskaya and M. R. Mitel'man. *J. Appl. Chem. U.S.S.R.* 20, 829-25 (1967) (English translation).—See C.I., 48, 3001g.

H. L. H.

MITEL'MAN, M. R.

USSR/Chemistry - Acid-resistant  
Cements

Sep 53

"The Interaction Between Silicate and Sodium  
Silicofluoride in Acid-Resistant Cements," N. S.  
Dombrovskaya, M. R. Mitel'man, All-Union Sci-Res  
Inst of Chem Machine Building

Zhur Prik Khim, Vol 26, No 9, pp 899-906

In industrial acid-resistant cements, interaction  
between sodium silicofluoride and disodium silicate  
takes place acc to the mechanism described.

271T27

POW C  
1112  
OC 5,2

TUN, Aleksandr Yakovlevich; MITEL'MAN, M.V., otv.red.; SHNYAVSKAYA,  
Ye.K., red.isd-va; ANDREYEV, S.P., tekhn.red.

[Adjustment and operation of the electric equipment of blast  
furnaces] Naladka i eksploatatsia elektrooborudovaniia  
domennykh pechei. Khar'kov, Gos.nauchno-tekhn.isd-vo lit-ry po  
cherno i tsvetnoi metallurgii, 1960. 143 p.

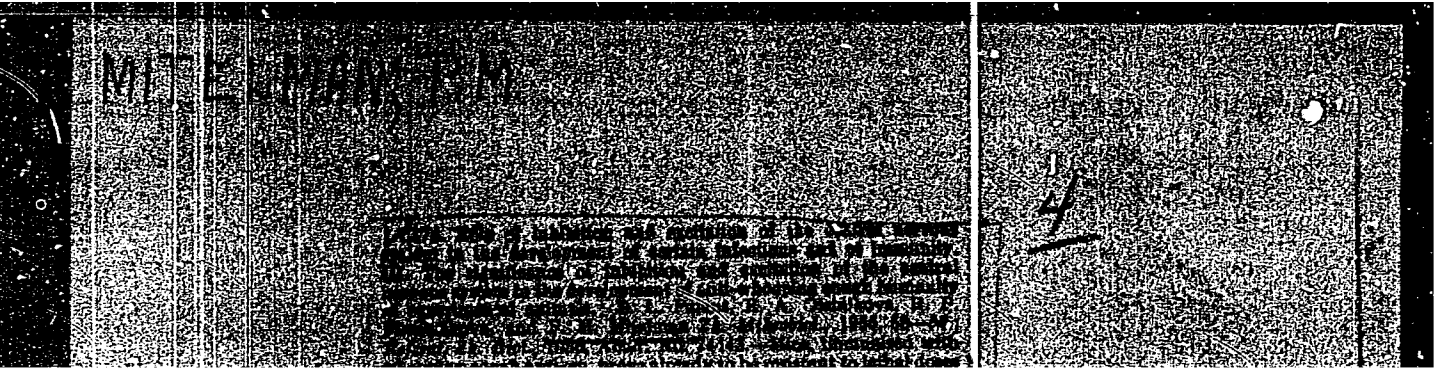
(MIRA 14:1)

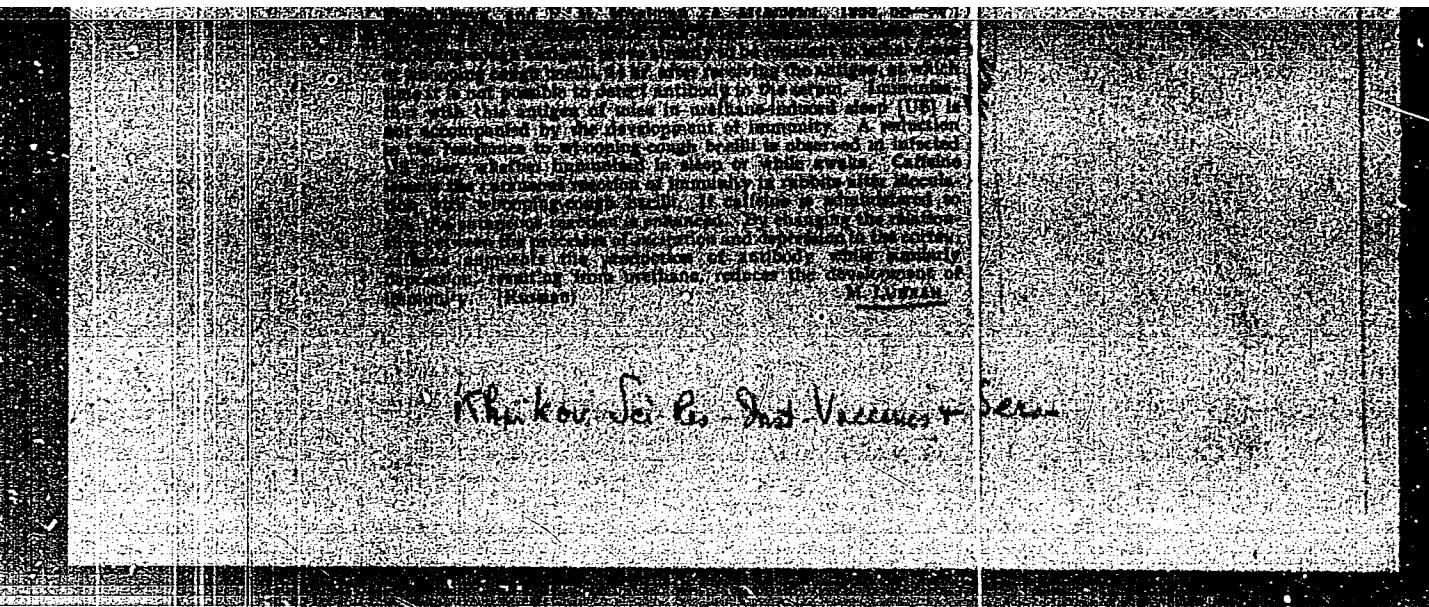
(Blast furnaces--Equipment and supplies)

MIHEL'MAN, M.V.; SHINKAREV, B.M.

Electric drive of a powder wire drawing machine. Avtom. svar. 16 no.4:  
78-81 Ap '63. (MIRA 16:4)

1. Ministers'va spetsial'nykh stroitel'nykh i montazhnykh rabot  
Ukrainskoy SSR.  
(Wire drawing—Equipment and supplies) (Electric driving)





HEMOPHILUS PERTUSSIS

PALANT, B.L.; FINTIKTIKOVA, B.P.; MITEL'MAN, P.M.

Significance of methods of handling and of structure of strains  
in the nature of toxic substances obtained from Hemophilus  
pertussis. Zhur. mikrobiol. epid. i immun. no.9:34-37 8 '55.  
(MLRA 8:11)

I. Iz Kar'kovskogo instituta vaktsin i syvorotok imeni Mechnikova,  
(dir.-kandidat biologicheskikh nauk G.P.Cherkas)

(HEMOPHILUS PERTUSSIS, immunology,  
antigens, eff. of methods of handling & of structure  
of strains of bact.)

(ANTIGENS AND ANTIBODIES,  
Hemophilus pertussis antigens, eff. of methods of  
handling & of structure of strains of bact.)

*Mitel'Man, P.M.*  
MITEL'MAN, P.M.

~~SECRET~~  
Effect of modified body reactivity on the effectiveness of whooping  
cough serum in experiments. Zhur.mikrobiol.oid. i immun., supplement  
for 1956:25 '57 (MIRA 11:3)

1. Iz Khar'kovskogo instituta vaktain i syvorotok.  
(WHOOPING COUGH) (SERUM THERAPY)



Country : USSR  
Category: : General Problems of Pathology. Pathophysiology  
of Infectious Process  
Abs. Jour. : Ref Zhur-Biol, 1959, No 4, 18186  
Author : Mitel'man, P. M.  
Institut. : Kharkov Scientific Research Institute of  
Title : Influence of Altered Activity of the Organism  
upon the Effectiveness of Antitussis Serum  
in an Experiment  
Orig. Pub. : Tr. Kharkovsk. n.-i. in-ta vaktsin i syvorotok,  
1957, 24, 25-30  
abstract : No abstract.

\* Vaccines and Sera

Card: 1/1

6

USSR/Microbiology. Hemoglobinophilic Bacteria F-5

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 62390

Author : Palant B.L., Mitel'man P.M., Fintiktikova R.P.,  
Oleynikova Ye.A.

Inst : Kharkov Institute of Vaccines and Sera

Title : Immunologic Effectiveness of a Combined Pertussis  
Preparation

Orig Pub : Tr. Khar'kovsk. n.-i. in-ta vaktsin i syvorotok  
1957, 24, 147-159

Abstract : No abstract

Card : 1/1

FALANT, B.L.; MITEL'MAN, P.M.; VEREZUB, L.G.; GORFUNKEL', KOSHKINA, D.M.;  
LEYBOVA, I.M.

Soluble antigen of pertussis bacillus for active immunization.  
Zhur.mikrobiol.epid.i immun. 31 no.8:57-60 Mg '60. (MIRA 14:6)

1. Iz Khar'kovskogo instituta vaktzin i vyvoroto: imeni Mechnikova.  
(WHOOPING COUGH)

METEL'MAN, P. M.; FINTIKKOVA, G. P.; KHAYKINA, A. S.; RACHINSEAYA, A. Z.

"Pertussis gamma-globulin from antigacterial and antitoxic horse sera."

Report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists. 1959.

KHAYKINA, A.S.; DUBRAVINA, G.I.; RACHINSKAYA, A.Z.; PETRENKO, M.D.; MITEL'MAN,  
P.M.; KHODOROVA, Z.N.; KATS, F.M.; KISELEV, R.I.; GAYDAMAKA, M.G.;  
VOLOVICH, B.I.; BEKKER, M.L.; GORDIYENKO, Ye.G.; VISOCHINENKO, Ye.K.;  
TELESHEVSKAYA, M.A.; NAYDEROVA, Yu.T.

Production of the active fraction of hyperimmune horse sera by means  
of the alcohol precipitation method under a low temperature. Nauch.  
osn. proizv. bakt. prep. 10:159-167 '61. (MIRA 18:7)

1. Khar'kovskiy institut vaktsin i syvorotok im. Mechnikova.

MITEL'MAN, P.M.; FINTIKTIKOVA, R.P.; VEREZUB, L.G.

Effectiveness of corpuscular pertussis vaccine. Nauch. issn. proizv.  
bakt. prep. 10:57-63 '61. (MIRA 18:7)

1. Khar'kovskiy institut vaktsin i syvorotok im. Mechnikova.

MITEL'MAN, P.M.; AVERINA, I.V.; TOMENKO, Ye.K.; VEREZUB, L.G.; DOBZHINSKAYA,  
M.G.; KHODOROVA, Z.G.; ALTUYEVA, Ye.G.

Reactogenicity and immurolgical effectiveness of the new sorbed  
soluble pertussis-diphtheria-tetanus vaccine. Zhur. mikrobiol.,  
epid. i immun. 41 no.4:70-73 Ap '64.

(MIRA 18:4)

1. Khar'kovskiy institut vaktsin i syvorotok imeni Mechnikova.

PALANT, B.L.; MITELMAN, P.M.; KHAYKINA, A.S.; RACHINSKAYA, R.Z.; KHODOROVA,  
Z.N.; FINTIKTIKOVA, R.P.

Production of antipertussis sera, their purification and testing of  
the effectiveness of pertussis gamma globulin under clinical condi-  
tions. Nauch. osn. proizv. bakt. prep. 10:262-271 '61. (MIRA 18:7)



MITEL'MAN, P.M.; FOFOVA, G.M.; VEREZUB, I.G.; DOKZHINSKAYA, M.G.;  
STAROBYNETS, Z.G.; FILONENKO, O.S.; PONOMARENKO, M.G.

Further study of a new adsorbed soluble pertussis-diphtheria-  
tetanus vaccine. Zhur.mikrobiol., epid. i immun. 40 no.12:  
40-44 D '65. (MIRA 19:1)

1. Khar'kovskiy institut mikrobiologii, vaksin i syverotok  
imeni Mechnikova.

ACCESSION NR: AP4031446

S/0016/64/000/004/0070/0073

AUTHOR: Mitol'man, P. M.; Averina, I. V.; Tomenko, Ye. K.; Verezub, L. G.; Dobzhinskaya, M. G.; Khodorova, Z. G.; Altuyeva, Ye. G.

TITLE: Reactogenic nature and immunological efficacy of a new sorbed soluble diphtheria-pertussis-tetanus vaccine

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 4, 1964, 70-73

TOPIC TAGS: diphtheria-pertussis-tetanus vaccine, sorbed soluble D.P.T. vaccine, soluble pertussis antigen, reduced D.P.T. reaction, D.P.T. immunological efficacy, body temperature change, blood serum titer

ABSTRACT: A new sorbed soluble diphtheria-pertussis-tetanus vaccine containing a soluble pertussis antigen, instead of a corpuscular one, has been developed to reduce reactions to D.P.T. inoculations. A group of children was investigated to find reaction intensity and immunological efficacy of the new vaccine. All children were examined by a pediatrician before immunization and temperature was taken for two days before each of three inoculations. Findings show that the

Card 1/2

ACCESSION NR: AP4031446

new vaccine does not produce any strong reactions as found in 1 to 4.3% cases immunized with vaccines containing corpuscular pertussis antigens. Moderately severe temperature reactions were found in only 1.9 to 2.1% cases compared to 7 to 15% cases for nonsorbed vaccines. Body temperature increases ranging from 37.1 to 37.5°C were found in 32% after 1st inoculation, 26.4% after the 2nd inoculation, and 19.3% after the 3d inoculation. Weak local reactions in the form of a quickly disappearing hyperemia were found in 26 to 32.2%. Blood serum titers of pertussin agglutinins, diphtheria antitoxin, and tetanus toxoid as well as Schick reaction tests all demonstrate the high immunological efficacy of the new D.P.T. vaccine. Orig. art. has: 3 tables.

ASSOCIATION: Khar'kovskiy institut vaksin i sy\*vorotok im. Mechnikova (Kharkov Institute of Vaccines and Serums)

SUBMITTED: 01Jun63

SUB CODE: LS

NR REF SOV: 000

ENCL: 00

OTHER: 000

Card 2/2

MITELMAN S. L.

The alkali-forming variants of Eberth's bacillus. I. G. Petrenko and S. L. Mitelman. *Z. Microbiol. Epidemiol. Immunohygiene* (U. S. S. R.) 17, 218-221 (in German 221) (1936).—Of 156 cultures of Eberth's bacillus isolated in a recent epidemic, 6 were alkali-forming variants. They were capable of coagulating milk and developing an alk. reaction. They were also capable of assimilating N from  $NH_4$  salts in the presence of citric and lactic salts (ammonia-pos. variants), even after long storage and dissociation, thus resembling organisms of the paratyphus B group.

S. A. Karjala

628-524 METALLURGICAL LITERATURE CLASSIFICATION

MITEL' MAN, S. L.

USSR/Medicine - Diphtheria

FD-2309

Card 1/1 Pub 148 - 10/36

Author : Mitel'man, S. L.

Title : ~~Investigation of the reaction of children to the introduction of~~  
purified and adsorbed diphtheria anatoxin

Periodical : Zhur. mikro. epid. i immun. No 2, 30-34, Feb 1955

Abstract : On the basis of the observations listed, concludes that the re-  
action of children to the introduction of purified, adsorbed  
diphtheria anatoxin is weak and does not differ much from that  
produced by ordinary anatoxin. Four tables.

Institution : Division of the Prophylaxis of Children's Diseases, Institute of  
Epidemiology and Microbiology imeni N. F. Gamaleya, Academy Medi-  
cal Sciences USSR

Submitted : July 8, 1954

MITELMAN, S.L., Cand Med Sci -- (diss) "Study of ~~sero-~~  
immunological indicators in diseases <sup>and</sup> natural and  
active immunization against scarlet fever." Mos, 1958,  
10 pp (Acad Med Sci USSR. Inst of Epidemiology and  
Microbiology in honored Academician N.F. Gamale.)  
200 copies (KL, 23-58, 112)

- 142 -

MITEL'MAN, S.L.

Effectiveness of active immunization against scarlet fever by depot  
preparations. Zhur. mikrobiol. epid. i immun. 2: no.9:3-8 S '58

(MIRA 11:9)

1. Iz Inatituta epidemiologii i mikrobiologii imeni Samalei AMN SSSR.  
(SCARLET FEVER, prev. & control.  
vacc. (Rus))

PAVLOV, P.V., MITEL'MAN, S.L., AKIMOVA, V.V.

Purified adsorbed scarlet fever toxin. Repor: No.3:Result of  
active immunization against scarlet fever with purified adsorbed  
scarlet fever toxin. Zhur.mikrobiol. epid. i immun. 29 no.9:11-15  
S '58 (MIRA 11:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN  
SSSR.

(SCARLET FEVER, prev. & control,  
vacc. with purified adsorbed toxin (Rus))



MITELMAN, S.L.; STAROVEROVA, A.G.

Studies on reactivity to chemically associated vaccine against enteric infections and tetanus (polyvaccine of the Institute of Experimental Medicine) in limited studies. Zhür. mikrobiol. epid. i immun. 29 no.10:42-43 Q '58.

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.  
(VACCINES AND VACCINATION,  
enteric-tetanus polyvaccine, field studies (Rus))  
(TETANUS, immunology,  
same)

MITEL'MAN, S. L.; ANIMOVA, V. V.; PAVLOV, P. V.

"Problems of active immunization against scarlet."  
*to be*

Report submitted at the 13th All-Union Congress of Hygienists,  
Epidemiologists and Infectionists. 1959

BOLDYREV, T.Ye.; SHATROV, I.I.; ANAN'IN, V.V.; BESSMERTNYI, B.S.; OLSUF'YEV, N.G.;  
FAYOROVA, L.A.; MITEL'MAN, S.L.; OSADCHIYEVA, A.L.

"Epidemiology," edited by G.I.A.Zmeev. Reviewed by T.E.Boldyrev  
and others. Zhur.mikrobiol.epid. i immun. 30 no.4:134-138  
Ap '59. (MIRA 12:6)

(EPIDEMIOLOGY) (ZMEEV, G.I.A.)

MITEL'MAN, S.L.

Studying the capacity of purified sorbed scarlet fever toxin to  
cause a reaction; author's abstract. Zhur. mikrobiol. epid. i  
immun. 31 no. 4:131 Ap '60. (MIRA 13:10)

I. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

(SCARLET FEVER)

MITEL'MAN, S.L.

Study of the immunological and epidemiological activity of purified  
sorbed scarlet fever toxin. Zhur.mikrobiol.epid.i immun. 31 no.8:  
70-75 Ag '60r. (MIRA 14:6)

I. Iz Otdela profilaktiki detskikh infektsiy Instituta epidemiologii  
i mikrobiologii imeni Gamalei AMN SSSR.  
(SCARLET FEVER) (TOXINS AND ANTITOXINS)

MITEL'MAN, S.L.

Active immunization against scarlet fever and its influence on the incidence of tonsillitis. Zhur.mikrobiol. epid. i immun. 32 no.4: 63-55 Ap '61. (MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR. (SCARLET FEVER) (TONSILS--DISEASES)

MITELMAN, S.L.

A critical note. Zhur. mikrobiol., epid. i immun. 40 no.3:115  
Mr '63. (MIRA 17:2)

PAVLOV, P.V.; MITEL'MAN, S.L.; AKIMOVA, V.V.

Preparations for active immunization against scarlet fever. Nauch.  
osn. proizv. bakt. prep. 10:129-134 '61. (MIRA 18:7)

1. Institut epidemiologii i mikrobiologii im. Gamalei AMN SSSR.



MITEL'MAN, S.L.; AKIMOVA, V.V.

Reactogenicity and immunological effectiveness of sorbed  
scarlet fever-diphtheria-pertussis-tetanus vaccine.  
Zhur.mikrobiol., epid. i immun. 42 no.12:34-39 D '65.  
(MIRA 19:1)

1. Institut epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

MITEL'MAN, S.L.

Study of the epidemiological effectiveness of purified sorbed  
scarlet fever toxin. Zhur. mikrobiol., epid. i immun. 40 no.9:  
61-64 S'63. (MIRA 17:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

MITELMAN, Ya.

Remote control of the VNIIO-II power shovel. Muk.-elev.prom. 21 no.1:  
26 Ja '55. (MIRA 8:5)  
(Grain handling machinery)

MITEL'MAN, Ye.

Improve the system of issuing credit and payments on special  
accounts. Den. i kred. 21 no.6:12-20 Ja '63. (MIRA 16:8)  
(Credit) (Payment)

MITEL'MAN, Ye.

Valuable initiative which should be continued. Den. i kred. 21  
no.7:82-88 JI '63. (MIRA 16:8)  
(Bibliography--Banks and banking)

IKONNIKOV, V.V., prof.; VASIL'YEV, P.G., and, ekon.nauk; LAVROV,  
V.V., prof.; RYUMIN, S.M.; KOLYCHEV, L.I., kand. ekon.  
nauk; SAMOYLOV, V.K.; LYSKOVICH, A.A.; KOLOMIY, Ye.V.,  
kand. ekon. nauk; MITEL'MAN, Ye.L., kand. ekon. nauk;  
BEL'KINA, R.K., kand. ekon. nauk; SHTEYNSHLEYER, S.B.,  
kand. ekon. nauk; ROTLEYDER, A.Ya., kand. ekon. nauk;  
POGODIN, Yu., red.; TELEGINA, T., tekhn. red.

[Finance and credit in the U.S.S.R.] Finansy i kredit SSSR.  
Moskva, Izd-vo "Finansy," 1964. 447 p. (MIRA 17:3)

MITEL'MAN, Yefim Lazarevich; FOGODIN, Ya., red.; LUGROVA, L., red.

[Financing and credit in industry] Finansirovani<sup>e</sup> i kredi-  
tovanie promyshlennosti. Moskva, Izd-vo "Finatsy" 1964.  
359 p. (MIRA 17:8)

BUZYREV, V.M., prof.[deceased]; LABAZOV, V.I., dots.; NIKOLOTOV,  
S.N., dots.; SKVORTSOV, L.I., dots.; MITEL'MAN, Ye.L.,  
dots.; SHTEYNSHLEYGER, S.B., dots.; EBLER, S.A., prepod.;  
ROTLEYDER, A.Ya., dots.; USHAKOVA, L.N., prepod.; DUBNOVA,  
Z.K., red.

[Currency circulation and credit in the U.S.S.R.] Denezh-  
noe obrashchenie i kredit SSSR. Moskva, Vysshaya shkola,  
1965. 458 p. (MIRA 18:8)

1. Vsesoyuznyy zaokhnyy finansovo-ekonomicheskii institut  
(for all except Dubnova).



KITTEL'MAN, Yu.N.

Some morphological peculiarities of the bones, especially of the spine, in imperfect osteogenesis, according to X ray data. Ortop. travn. i protex. 17 no.6:90-91 N-D '56. (MIRA 10:2)

1. Iz Ukrainakogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii v gorode Kiyeva (direktor - dotsent K.M.Klimov)  
(BONES--RADIOGRAPHY) (BONES--DISEASES)

MITEL'MAN, Yu. N. (Kiyev, ul. Strelet'skaya, d. 22, kv. 12)

Methodology of radiographic investigation of the meniscus of the knee joint. Nov. khir. arkh. no.2:101-107 Mr-Ap '59. (MIRA 12:7)

1. Kiyevskiy nauchno-issledovatel'skiy institut ortopedii i travmatologii.

(KNEE--RADIOGRAPHY )

MITEL'MAN, Yu.N.; YEMETS, G.L.

Synovial of the knee joint. Ortop., travm.i protes. 21  
no.1:76-78 Ja '60. (MIRA 13:12)

(SYNOVIAL MEMBRANES--TUMORS) (KNEE--TUMORS)

YELETSKIY, A.G., prof. (Kiyev, ul. Kirova, d.7, kv.9); MITEL'MAN, Yu.N.

Anatomical and functional restoration of the hip joint following  
arthroplasty. Ortop., travm. i protez. 24 no.11:3-8 N '63.  
(MIRA 17:10)

1. Iz kafedry ortopedii i travmatologii (zav. - prof. A.G. Yeletskiy)  
Kiyevskogo meditsinskogo instituta imeni Bogomol'tsa i rentgenovskogo  
otdeleniya (zav. - starshiy nauchnyy sotrudnik Yu.N. Mitel'man)  
Ukrainskogo instituta ortopedii i travmatologii (dir. - dotsent I.P.  
Alekseyenko).

MITOMY, A., class

Device for testing hydraulic jacks. Avt.transp. 38 no.3:  
52-53 Mr '60. (MIRA 13:6)

1. Frunzenskaya gruzovaya avtobaza No.1.  
(Hydraulic jacks--Testing)

MOROZENSKIY, L.I.; MITENEV, O.A.; KRUTIKOV, V.K.

Longitudinal hot cracks in continuously cast slabs. Steel  
25 no.4:312-317 Ap '65. (MIRA 18:11)

MITENEV, P., tekhnolog (g. Sjalinsk).

The most precious thing. Sev. profsaiuzu 6 no.15:37-39 II '58.  
(MIRA 11:12)

~~L. Elektratsekh~~ Kuznetskogo metallurgicheskogo kombinata.  
(Electric industry workers)

MITENEV, P., tehnolog

million rubles are saved. Sov. profsoiuzy 7 no.11:33  
Ja '59. (MIRA 12:9)

1. Elektrotsekh Kuznetskogo metallurgicheskogo kombinata, g. Stalinsk.  
(Stalinsk--Metallurgical plants) (Inventions, Employees')



MITENEV, P., technolog

Kuznetsk "millionaire." Sov.profsojuz 7 no.21:24-25  
N '59. (MIRA 12:12)

1. Elektrotsekh Kuznetskogo metallurgicheskogo kombinata.  
(Kuznetsk Basin--Magnetolectric machines)

MITNEV, V. S. (Kich-gorodok, Vologodskaya oblast').

Organization of a workshop in the Shongskaya School. Politekh.  
obuch. no.11:89 N 157. (MIRA 10:10)  
(Manual training)

MITENEV, V.S.; SHIKHLAROV, N.D.

Extracurricular work in high school physics. Fiz. v shkole  
17 no.1:94-95 Ja-F '57. (MLRA 10:2)

1. Zaveduyushchiy Kich-Gorodatskim payonnyy pedkabinatom  
Vologodskoy oblasti. (for Mitenev) 2. 7-ya semiletnyaya shkola  
imeni S.M. Kirova, Salyany AzSSR. (for Shikhlarov).  
(Physics--Study and teaching)

MITENKOV, A.

A persistent man. Okhr.truda i sots.strakh. no.1:48-50  
Ja '59. (MIRA 12:2)

1. Sekretar' partkoma Gosudarstvennoy elektrotekhnicheskoy  
fabriki, g. Riga, Latvija.  
(Riga—Telephone) (Industrial hygiene)

MITENKOV, A.

Meetings in workshops. Sov. profsoiuzy 7 no.6:36-37 Nr '59.  
(MIRA 12:6)

1. Sekretar' partbyure zavodoupravleniya rixhakege zavoda "VEF".  
(Riga—Employees' representation in management)

CA MITENKOV, F.M.

Kinetics of ethane decomposition at pressures higher than atmospheric. A. D. Stepankovich and F. M. Mitenkov (Saratov State Univ.). *Zhur. Fiz. Khim.* 25, 203-11 (1951).—The rate const. *k* for the thermal decompos. of ethane at 635° and at *p* not less than 1 atm. is calcd. as a

*Chain Theoret. Physics.*

function of the % decompos. *x* (up to 12%, but still far from equil.) and the calcd. values are compared with the exptl. data of Dinties, *et al.*, (C.A. 31, 7318<sup>2</sup>) who showed that *k* decreases for increasing values of *x*. Three different kinetic schemes are assumed and for each one a differential equation is set up and numerically solved, the rate const. of the individual reactions being calcd. by the transition-state method. The concn. of Et radicals is neglected throughout. The first scheme:  $C_2H_6 \rightleftharpoons 2C_2H_5$  (1),  $R(H, CH_3, C_2H_5) + C_2H_6 \rightleftharpoons RH + C_2H_5$  (2),  $C_2H_5 \rightleftharpoons C_2H_4 + H$  (3),  $R + R + M \rightarrow R_2 + M$  (4) is rejected because calcs. show that *k* leads to a monotonous increase of *k* with *x*. The 2nd scheme consists in (1), (2), (3), (4)

and  $R(H, CH_3) + C_2H_6 \rightleftharpoons CH_3-C(H)-CH_3$  (5) and leads to

the expected decrease in *k* with the progress of the decompos. Reaction (5) is thus essential: (its activation energy *K* is estd. at 18 kcal. or less. Higher values of *K*, e.g. 29 kcal., as given by Rice and P. By (C.A. 32, 4937<sup>2</sup>) increase the discrepancy between calcd. and exptl. *k* values. The 3rd scheme is made of (1), (2), (3), (4), (5) and  $R + R \rightleftharpoons R_2$  (6). Then at *p* = 1 atm., for *x* = 4, 6, 7, and 12%, resp.,  $k_{calc} \times 10^4 = 30.02, 19.82, 18.97, 17.88$ , and 7.97, whereas  $k_{expt} \times 10^4 = 40, 40, 30, 25, 16$ . At *p* = 3.9 atm., for *x* = 3, 4, 8, and 10%, resp.,  $k_{calc} \times 10^4 = 48.89, 44.25, 14.38, 6.14$ , whereas  $k_{expt} \times 10^4 = 30, 18, 9, 12$ .  
Michel Boudart

MITANKOV, F. M.

257T15

USSR/Chemistry - Polymerization,  
Isobutadiene

Feb 53

"The Catalytic Thermopolymerization of Isobutadiene Over Quartz at Low Pressures," A. D. Stepukhovich and F. M. Mitankov, Saratov State U, Lab of Chem Physics

2. Zhur Obshch Khim, Vol 23, No 2, pp 200-203

At pressures lower than 2 mm and at temps of 811-828° K, catalytic thermopolymerization of isobutadiene takes place at the walls (made of quartz), which thermopolymerization in this case

257T15

surpasses decomn. An assumed mechanism for the catalytic thermopolymerization of isobutadiene at pressures lower than 2 mm is given, and this mechanism agrees satisfactorily with the facts.

MAILED

THE INFORMATION IN THIS REPORT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS BEING RELEASED TO YOU UNDER THE NATIONAL SECURITY AGENCY DECLASSIFICATION AUTHORITY. FOR MORE INFORMATION ON THIS REPORT, CONTACT THE NATIONAL SECURITY AGENCY DECLASSIFICATION AUTHORITY AT (301) 754-3400.

1. Background

2. Summary

3. Discussion

4. Conclusions

5. Recommendations

6. References

7. Appendix

8. Glossary

9. Index

10. Distribution

11. Security

12. Other

13. Comments

14. Notes

15. Bibliography

16. Footnotes

17. Endnotes

18. References

19. Appendix

20. Glossary

21. Index

22. Distribution

23. Security

24. Other

25. Comments

26. Notes

27. Bibliography

28. Footnotes

29. Endnotes

30. References

31. Appendix

32. Glossary

33. Index

34. Distribution

35. Security

36. Other

37. Comments

38. Notes

39. Bibliography

40. Footnotes

41. Endnotes

42. References

43. Appendix

44. Glossary

45. Index

46. Distribution

47. Security

48. Other

49. Comments

50. Notes

51. Bibliography

52. Footnotes

53. Endnotes

54. References

55. Appendix

56. Glossary

57. Index

58. Distribution

59. Security

60. Other

61. Comments

62. Notes

63. Bibliography

64. Footnotes

65. Endnotes

66. References

67. Appendix

68. Glossary

69. Index

70. Distribution

71. Security

72. Other

73. Comments

74. Notes

75. Bibliography

76. Footnotes

77. Endnotes

78. References

79. Appendix

80. Glossary

81. Index

82. Distribution

83. Security

84. Other

85. Comments

86. Notes

87. Bibliography

88. Footnotes

89. Endnotes

90. References

91. Appendix

92. Glossary

93. Index

94. Distribution

95. Security

96. Other

97. Comments

98. Notes

99. Bibliography

100. Footnotes

101. Endnotes

102. References

103. Appendix

104. Glossary

105. Index

106. Distribution

107. Security

108. Other

109. Comments

110. Notes

111. Bibliography

112. Footnotes

113. Endnotes

114. References

115. Appendix

116. Glossary

117. Index

118. Distribution

119. Security

120. Other

121. Comments

122. Notes

123. Bibliography

124. Footnotes

125. Endnotes

126. References

127. Appendix

128. Glossary

129. Index

130. Distribution

131. Security

132. Other

133. Comments

134. Notes

135. Bibliography

136. Footnotes

137. Endnotes

138. References

139. Appendix

140. Glossary

141. Index

142. Distribution

143. Security

144. Other

145. Comments

146. Notes

147. Bibliography

148. Footnotes

149. Endnotes

150. References

151. Appendix

152. Glossary

153. Index

154. Distribution

155. Security

156. Other

157. Comments

158. Notes

159. Bibliography

160. Footnotes

161. Endnotes

162. References

163. Appendix

164. Glossary

165. Index

166. Distribution

167. Security

168. Other

169. Comments

170. Notes

171. Bibliography

172. Footnotes

173. Endnotes

174. References

175. Appendix

176. Glossary

177. Index

178. Distribution

179. Security

180. Other

181. Comments

182. Notes

183. Bibliography

184. Footnotes

185. Endnotes

186. References

187. Appendix

188. Glossary

189. Index

190. Distribution

191. Security

192. Other

193. Comments

194. Notes

195. Bibliography

196. Footnotes

197. Endnotes

198. References

199. Appendix

200. Glossary

201. Index

202. Distribution

203. Security

204. Other

205. Comments

206. Notes

207. Bibliography

208. Footnotes

209. Endnotes

210. References

211. Appendix

212. Glossary

213. Index

214. Distribution

215. Security

216. Other

217. Comments

218. Notes

219. Bibliography

220. Footnotes

221. Endnotes

222. References

223. Appendix

224. Glossary

225. Index

226. Distribution

227. Security

228. Other

229. Comments

230. Notes

231. Bibliography

232. Footnotes

233. Endnotes

234. References

235. Appendix

236. Glossary

237. Index

238. Distribution

239. Security

240. Other

241. Comments

242. Notes

243. Bibliography

244. Footnotes

245. Endnotes

246. References

247. Appendix

248. Glossary

249. Index

250. Distribution

251. Security

252. Other

253. Comments

254. Notes

255. Bibliography

256. Footnotes

257. Endnotes

258. References

259. Appendix

260. Glossary

261. Index

262. Distribution

263. Security

264. Other

265. Comments

266. Notes

267. Bibliography

268. Footnotes

269. Endnotes

270. References

271. Appendix

272. Glossary

273. Index

274. Distribution

275. Security

276. Other

277. Comments

278. Notes

279. Bibliography

280. Footnotes

281. Endnotes

282. References

283. Appendix

284. Glossary

285. Index

286. Distribution

287. Security

288. Other

289. Comments

290. Notes

291. Bibliography

292. Footnotes

293. Endnotes

294. References

295. Appendix

296. Glossary

297. Index

298. Distribution

299. Security

300. Other

301. Comments

302. Notes

303. Bibliography

304. Footnotes

305. Endnotes

306. References

307. Appendix

308. Glossary

309. Index

310. Distribution

311. Security

312. Other

313. Comments

314. Notes

315. Bibliography

316. Footnotes

317. Endnotes

318. References

319. Appendix

320. Glossary

321. Index

322. Distribution

323. Security

324. Other

325. Comments

326. Notes

327. Bibliography

328. Footnotes

329. Endnotes

330. References

331. Appendix

332. Glossary

333. Index

334. Distribution

335. Security

336. Other

337. Comments

338. Notes

339. Bibliography

340. Footnotes

341. Endnotes

342. References

343. Appendix

344. Glossary

345. Index

346. Distribution

347. Security

348. Other

349. Comments

350. Notes

351. Bibliography

352. Footnotes

353. Endnotes

354. References

355. Appendix

356. Glossary

357. Index

358. Distribution

359. Security

360. Other

361. Comments

362. Notes

363. Bibliography

364. Footnotes

365. Endnotes

366. References

367. Appendix

368. Glossary

369. Index

370. Distribution

371. Security

372. Other

373. Comments

374. Notes

375. Bibliography

376. Footnotes

377. Endnotes

378. References

379. Appendix

380. Glossary

381. Index

382. Distribution

383. Security

384. Other

385. Comments

386. Notes

387. Bibliography

388. Footnotes

389. Endnotes

390. References

391. Appendix

392. Glossary

393. Index

394. Distribution

395. Security

396. Other

397. Comments

398. Notes

399. Bibliography

400. Footnotes

401. Endnotes

402. References

403. Appendix

404. Glossary

405. Index

406. Distribution

407. Security

408. Other

409. Comments

410. Notes

411. Bibliography

412. Footnotes

413. Endnotes

414. References

415. Appendix

416. Glossary

417. Index

418. Distribution

419. Security

420. Other

421. Comments

422. Notes

423. Bibliography

424. Footnotes

425. Endnotes

426. References

427. Appendix

428. Glossary

429. Index

430. Distribution

431. Security

432. Other

433. Comments

434. Notes

435. Bibliography

436. Footnotes

437. Endnotes

438. References

439. Appendix

440. Glossary

441. Index

442. Distribution

443. Security

444. Other

445. Comments

446. Notes

447. Bibliography

448. Footnotes

449. Endnotes

450. References

451. Appendix

452. Glossary

453. Index

454. Distribution

455. Security

456. Other

457. Comments

458. Notes

459. Bibliography

460. Footnotes

461. Endnotes

462. References

463. Appendix

464. Glossary

465. Index

466. Distribution

467. Security

468. Other

469. Comments

470. Notes

471. Bibliography

472. Footnotes

473. Endnotes

474. References

475. Appendix

476. Glossary

477. Index

478. Distribution

479. Security

480. Other

481. Comments

482. Notes

483. Bibliography

484. Footnotes

485. Endnotes

486. References

487. Appendix

488. Glossary

489. Index

490. Distribution

491. Security

492. Other

493. Comments

494. Notes

495. Bibliography

496. Footnotes

497. Endnotes

498. References

499. Appendix

500. Glossary

501. Index

502. Distribution

503. Security

504. Other

505. Comments

506. Notes

507. Bibliography

508. Footnotes

509. Endnotes

510. References

511. Appendix

512. Glossary

513. Index

514. Distribution

515. Security

516. Other

517. Comments

518. Notes

519. Bibliography

520. Footnotes

521. Endnotes

522. References

523. Appendix

524. Glossary

525. Index

526. Distribution

527. Security

528. Other

529. Comments

530. Notes

531. Bibliography

532. Footnotes

533. Endnotes

534. References

535. Appendix

536. Glossary

537. Index

538. Distribution

539. Security

540. Other

541. Comments

542. Notes

543. Bibliography

544. Footnotes

545. Endnotes

546. References

547. Appendix

548. Glossary

549. Index

550. Distribution

551. Security

552. Other

553. Comments

554. Notes

555. Bibliography

556. Footnotes

557. Endnotes

558. References

559. Appendix

560. Glossary

561. Index

562. Distribution

563. Security

564. Other

565. Comments

566. Notes

567. Bibliography

568. Footnotes

569. Endnotes

570. References

571. Appendix

572. Glossary

573. Index

574. Distribution

575. Security

576. Other

577. Comments

578. Notes

579. Bibliography

580. Footnotes

581. Endnotes

582. References

583. Appendix

584. Glossary

585. Index

586. Distribution

587. Security

588. Other

589. Comments

590. Notes

591. Bibliography

592. Footnotes

593. Endnotes

594. References

595. Appendix

596. Glossary

597. Index

598. Distribution

599. Security

600. Other

601. Comments

602. Notes

603. Bibliography

604. Footnotes

605. Endnotes

606. References

607. Appendix

608. Glossary

609. Index

610. Distribution

611. Security

612. Other

613. Comments

614. Notes

615. Bibliography

616. Footnotes

617. Endnotes

618. References

619. Appendix

620. Glossary

621. Index

622. Distribution

623. Security

624. Other

625. Comments

626. Notes

627. Bibliography

628. Footnotes

629. Endnotes

630. References

631. Appendix

632. Glossary

633. Index

634. Distribution

635. Security

636. Other

637. Comments

638. Notes

639. Bibliography

640. Footnotes

641. Endnotes

642. References

643. Appendix

644. Glossary

645. Index

646. Distribution

647. Security

648. Other

649. Comments

650. Notes

651. Bibliography

652. Footnotes

653. Endnotes

654. References

655. Appendix

656. Glossary

657. Index

658. Distribution

659. Security

660. Other

661. Comments

662. Notes

663. Bibliography

664. Footnotes

665. Endnotes

666. References

667. Appendix

668. Glossary

669. Index

670. Distribution

671. Security

672. Other

673. Comments

674. Notes

675. Bibliography

676. Footnotes

677. Endnotes

678. References

679. Appendix

680. Glossary

681. Index

682. Distribution

683. Security

684. Other

685. Comments

686. Notes

687. Bibliography

688. Footnotes

689. Endnotes

690. References

691. Appendix

692. Glossary

693. Index

694. Distribution

695. Security

696. Other

697. Comments

698. Notes

699. Bibliography

700. Footnotes

701. Endnotes

702. References

703. Appendix

704. Glossary

705. Index

706. Distribution

707. Security

708. Other

709. Comments

710. Notes

711. Bibliography

712. Footnotes

713. Endnotes

714. References

715. Appendix

716. Glossary

717. Index

718. Distribution

719. Security

720. Other

721. Comments

722. Notes

723. Bibliography

724. Footnotes

725. Endnotes

726. References

727. Appendix

728. Glossary

729. Index

730. Distribution

731. Security

732. Other

733. Comments

734. Notes

735. Bibliography

736. Footnotes

737. Endnotes

738. References

739. Appendix

740. Glossary

741. Index

742. Distribution

743. Security

744. Other

745. Comments

746. Notes

747. Bibliography

748. Footnotes

749. Endnotes

750. References

751. Appendix

752. Glossary

753. Index

754. Distribution

755. Security

756. Other

757. Comments

758. Notes

759. Bibliography

760. Footnotes

761. Endnotes

762. References

763. Appendix

764. Glossary

765. Index

766. Distribution

767. Security

768. Other

769. Comments

770. Notes

771. Bibliography

772. Footnotes

773. Endnotes

774. References

775. Appendix

776. Glossary

777. Index

778. Distribution

779. Security

780. Other

781. Comments

782. Notes

783. Bibliography

784. Footnotes

785. Endnotes

786. References

787. Appendix

788. Glossary

789. Index

790. Distribution

791. Security

792. Other

793. Comments

794. Notes

795. Bibliography

796. Footnotes

797. Endnotes

798. References

799. Appendix

800. Glossary

801. Index

802. Distribution

803. Security

804. Other

805. Comments

806. Notes

807. Bibliography

808. Footnotes

809. Endnotes

810. References

811. Appendix

812. Glossary

813. Index

814. Distribution

815. Security

816. Other

817. Comments

818. Notes

819. Bibliography

820. Footnotes

821. Endnotes

822. References

823. Appendix

824. Glossary

825. Index

826. Distribution

827. Security

828. Other

829. Comments

830. Notes

831. Bibliography

832. Footnotes

833. Endnotes

834. References

835. Appendix

836. Glossary

837. Index

838. Distribution

839. Security

840. Other

841. Comments

842. Notes

843. Bibliography

844. Footnotes

845. Endnotes

846. References

847. Appendix

848. Glossary

849. Index

850. Distribution

851. Security

852. Other

853. Comments

854. Notes

855. Bibliography

856. Footnotes

857. Endnotes

858. References

859. Appendix

860. Glossary

861. Index

862. Distribution

863. Security

864. Other

865. Comments

866. Notes

867. Bibliography

868. Footnotes

869. Endnotes

870. References

871. Appendix

872. Glossary

873. Index

874. Distribution

875. Security

876. Other

877. Comments

878. Notes

879. Bibliography

880. Footnotes

881. Endnotes

882. References

883. Appendix

884. Glossary

885. Index

886. Distribution

887. Security

888. Other

889. Comments

890. Notes

891. Bibliography

892. Footnotes

893. Endnotes

894. References

895. Appendix

896. Glossary

897. Index

898. Distribution

899. Security

900. Other

901. Comments

902. Notes

903. Bibliography

904. Footnotes

905. Endnotes

906. References

907. Appendix

908. Glossary

909. Index

910. Distribution

911. Security

912. Other

913. Comments

914. Notes

915. Bibliography

916. Footnotes

917. Endnotes

918. References

919. Appendix

920. Glossary

921. Index

922. Distribution

923. Security

924. Other

925. Comments

926. Notes

927. Bibliography

928. Footnotes

929. Endnotes

930. References

931. Appendix

932. Glossary

933. Index

934. Distribution

935. Security

936. Other

937. Comments

938. Notes

939. Bibliography

940. Footnotes

941. Endnotes

942. References

943. Appendix

944. Glossary

945. Index

946. Distribution

947. Security

948. Other

949. Comments

950. Notes

951. Bibliography

952. Footnotes

953. Endnotes

954. References

955. Appendix

956. Glossary

957. Index

958. Distribution

959. Security

960. Other

961. Comments

962. Notes

963. Bibliography

964. Footnotes

965. Endnotes

966. References

967. Appendix

968. Glossary

969. Index

970. Distribution

971. Security

972. Other

973. Comments

974. Notes

975. Bibliography

976. Footnotes

977. Endnotes

978. References

979. Appendix

980. Glossary

981. Index

982. Distribution

983. Security

984. Other

985. Comments

986. Notes

987. Bibliography

988. Footnotes

989. Endnotes

990. References

991. Appendix

992. Glossary

993. Index

994. Distribution

995. Security

996. Other

997. Comments

998. Notes

999. Bibliography

1000. Footnotes

1001. Endnotes

1002. References

1003. Appendix

1004. Glossary

1005. Index

1006. Distribution

1007. Security

1008. Other

1009. Comments

1010. Notes

1011. Bibliography

1012. Footnotes

1013. Endnotes

1014. References

1015. Appendix

1016. Glossary

1017. Index

1018. Distribution

1019. Security

1020. Other

1021. Comments

1022. Notes

1023. Bibliography

1024. Footnotes

1025. Endnotes

1026. References

1027. Appendix

1028. Glossary

1029. Index

1030. Distribution

1031. Security

1032. Other

1033. Comments

1034. Notes

1035. Bibliography

1036. Footnotes

1037. Endnotes

1038. References

1039. Appendix

1040. Glossary

1041. Index

1042. Distribution

1043. Security

1044. Other

1045. Comments

1046. Notes

1047. Bibliography

1048. Footnotes

1049. Endnotes

1050. References

1051. Appendix

1052. Glossary

1053. Index

1054. Distribution

1055. Security

1056. Other

1057. Comments

1058. Notes

1059. Bibliography

1060. Footnotes

1061. Endnotes

1062. References

1063. Appendix

1064. Glossary

1065. Index

1066. Distribution

1067. Security

1068. Other

1069. Comments

1070. Notes

1071. Bibliography

1072. Footnotes

1073. Endnotes

1074. References

1075. Appendix

1076. Glossary

1077. Index

1078. Distribution

1079. Security

1080. Other

1081. Comments

1082. Notes

1083. Bibliography

1084. Footnotes

1085. Endnotes

1086. References

1087. Appendix

1088. Glossary

1089. Index

1090. Distribution

1091. Security

1092. Other

1093. Comments

1094. Notes

1095. Bibliography

1096. Footnotes

1097. Endnotes

1098. References

1099. Appendix

1100. Glossary

1101. Index

1102. Distribution

1103. Security

1104. Other

1105. Comments

1106. Notes

1107. Bibliography

1108. Footnotes

1109. Endnotes

1110. References

1111. Appendix

1112. Glossary

1113. Index

1114. Distribution

1115. Security

1116. Other

1117. Comments

1118. Notes

1119. Bibliography

1120. Footnotes

1121. Endnotes

1122. References

1123. Appendix

1124. Glossary

1125. Index

1126. Distribution

1127. Security

1128. Other

1129. Comments

1130. Notes

1131. Bibliography

1132. Footnotes

1133. Endnotes

1134. References

1135. Appendix

1136. Glossary

1137. Index

1138. Distribution

1139. Security

1140. Other

1141. Comments

1142. Notes

1143. Bibliography

1144. Footnotes

1145. Endnotes

1146. References

1147. Appendix

1148. Glossary

1149. Index

1150. Distribution

1151. Security

1152. Other

1153. Comments

1154. Notes

1155. Bibliography

1156. Footnotes

1157. Endnotes

1158. References

1159. Appendix

1160. Glossary

1161. Index

1162. Distribution

1163. Security

1164. Other

1165. Comments

1166. Notes

1167. Bibliography

1168. Footnotes

1169. Endnotes

1170. References

1171. Appendix



L 01811-67 EWI(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6035636 SOURCE CODE: UR/0089/66/020/005/0438/0439

AUTHOR: Garbunov, L. M.; Mitenkov, F. M.; Samoylov, O. B.; Farnskovskiy, V. V. 41  
B

ORG: none

TITLE: Cross-section averaging in thermal region for media containing zirconium  
hydride 21

SOURCE: Atomnaya energiya, v. 20, no. 5, 1966, 438-439

TOPIC TAGS: zirconium compound, hydride

ABSTRACT: The average values in the thermal region were calculated as a function of temperature and of absorption per single H nucleus, using the results obtained by averaging the spectra for infinite homogeneous media poisoned by the absorber. It was found that the averaged absorption cross sections follow a  $\chi^{-1}$  law and do not exceed 20 barns in the interval from 293 to 773°K. Orig. art. has: 4 figures.

[W]

SUB CODE: 07 / SUBM DATE: 14 Aug 65 / ORIG REF: 003

Card 1/1

UDC: 539.125.52:539.17.02

L 08502-67 EWT(m) JR  
ACC NR: AP6034099

SOURCE CODE: UR/0089/66/021/004/0293/0294

AUTHOR: Mitenkov, E. M.; Boyarinov, V. S.

ORG: none

TITLE: Approximate description of the kinetics of a reactor during stability investigations

SOURCE: Atomnaya energiya, v. 21, no. 4, 1966, 293-294

TOPIC TAGS: reactor transient, reactor neutron flux, nuclear reactor characteristic

ABSTRACT: This is an abstract of paper No. 107/5597, received by the editor and filed but not published in full. The authors show that the stability characteristics of reactors can be obtained in much simpler fashion by replacing the six groups of delayed neutrons in the kinetic equations by one or two equivalent groups, whose parameters are chosen to approximate the variation of the neutron density within the same time interval. The article contains the corresponding equations for the parameters of the equivalent groups and a comparison of the limits of the stability regions for different numbers of equivalent groups and for different parameters. The calculations were made for very simple reactor models with automatic control and for self-regulating reactors. It is shown that the best choice of the parameters of the equivalent groups should minimize the deviation of the corresponding points of the amplitude-phase characteristics. If this is done, the calculated limits of the stability regions will be quite close to the limits calculated with six groups of delayed neutrons, even if a

UDC: 621.039.512

Card 1/2

L 08502-67

ACC NR: AF6034099

0

single equivalent group is used. Orig. art. has: 4 formulas.

SUB CODE: 18/ SUM DATE: 29Jan66/ / ATD PRESS: 5103 .

Card 2/2 afs

L 07267-67 EWT(1)/EWT(m) WW/JR/GD

ACC NR: AT6025307

SOURCE CODE: UR/0000/66/000/001/0065/0071

AUTHOR: Mitenkov, F. M.; Obukhov, P. I.; Danilovskiy, V. S.

ORG: none

TITLE: Influence of the <sup>19</sup>coolant flow on the transient processes occurring in a nuclear power installationSOURCE: Moscow. Inzhenerno-fizicheskiy institut. Upravleniye yadernymi energeticheskimi ustanovkami (Control of nuclear power plants), no. 1. Moscow, Atomizdat, 1966, 65-71TOPIC TAGS: nuclear reactor coolant, reactor transient, water cooled nuclear reactor, nuclear reactor control ~~system~~

ABSTRACT: The authors report an investigation of the influence of coolant flow on the transient processes occurring in a two-loop nuclear steam generator with a water-water non-boiling reactor, for the purpose of determining qualitative relations between the corresponding system parameters and the amount of flow of the liquid (other conditions being equal). The response of the system to the following nonstationary conditions was determined: 1. External cooling of the reactor while maintaining nominal circulation of the coolant in the first loop. 2. Operation of the emergency protection with simultaneous variation of the circulation of the coolant to 1/3 nominal. 3. Jump in reactivity during the self-regulation mode. 4. Jumpwise increasing coolant circulation from 1/3 to nominal. Plots of the measured quantities, obtained by solving the

Card 1/2