"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

KORNEV, K.A. [Korniev, K.A.]; GREKOV, A.P. [Hrekov, A.P.]; YANCHIVS'KIY, V.A. [Ianchivs'kyi, V.A.]

Production of high-purity caprolactam. Khim. prom. [Ukr.] no.1: 16-17 Ja-Mr '63 (MIRA 17:7)

1. Institut khimii polimerov i monomerov AN UkrSSR.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHKOVSKIY, Yu.F., agronom

Effect of the leveling of rice checks on the fertility of soil.
Gidr. i mel. 16 no.9:41-43 S '64. (MIRA 17:11)

1. Krymskiy sel'skolhozyaystvennyy institut.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUGOVSKIY, B., inzh.

Centrifugal internal coating of steel bronze bushings. Avt. transp. 39 no.3:50-51 Mr '61. (MIRA 14:3)
(Protective coatings)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

SOSNOVSKIY, Igor' Petrovich; YANCHUK, A., red.

[Among animals and birds] Sredi zverei i ptits. Moskva, Mosk. rabochii, 1964. 132 p. (MIRA 17:7)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

LYUBIMOVA, Yelena L'vovna; YANCHUK, A., red.

[Plant kingdom of the Moscow region] Rastitel'nyi mir Podmoskov'ia. Moskva, Moskovskii rabochii, 1964. 86 p. (MIRA 17:12)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, A., red.

[Excursions to the Moscow environs] Ekskursii po Podmoskov'iu. Moskva, Mosk. rabochii, 1963. 54 p. (MIRA 17:6)

1. Moscow. Gorodskoye ekskursionnoye byuro.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

OBINOVIK, Yo.S.; YANCHUK, A.F.

Effect of gaseous oxygen, carbon monoxide, and nitrogen on the thermal decomposition rate of barium azide. Vestsi AN BSSR.Ser.khim.nav. no.2:115-117 '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

OSINOVIK, Ye.S.; YANCHUK, A.F.

Catalytic action of metallic nickel during the thermal decomposition of nickel oxalate. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no. 7:43-48 '59. (MIRA 14:4)
(Catalysts, Nickel) (Nickel oxalate)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

ACC NR: AF6034919 (N) SOURCE CODE: UR/0419/66/000/003/0131/0133

AUTHOR: Osinovik, Ye. S.; Yanchuk, A. F.

ORG: Institute of Physical Organic Chemistry, AN BSSR (Institut fiziko-organicheskoy khimii AN BSSR)

TITLE: Kinetics of thermal decomposition of thorium oxalate

SOURCE: AN BSSR. Vestsi. Seryya khimichnykh navuk, no. 3, 1966, 131-133

TOPIC TAGS: thorium compound, oxalate, thermal decomposition

ABSTRACT: The kinetics of thermolysis of $Th(C_2O_4)_2 \cdot 6H_2O$ in a vacuum at 300, 320, 330, 340 and 350°C were studied with the aid of the topokinetic equation $\alpha = 1-\exp(-kt^n)$, where α is the fraction of reacted substance, t is the reaction time, and k and n are constants. The process was found to include the following two steps:

$$Th(C_2O_4)_2 = Th(CO_3)_2 + 2CO,$$

$$Th(CO_3)_2 = ThO_2 + 2CO_2.$$

Toward the end of the thermal decomposition of thorium oxalate, at 350°C, the amounts of CO and CO_2 evolved are approximately equal, which corresponds to the reaction

$$Th(C_2O_4)_2 = ThO_2 + 2CO + 2CO_2.$$

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

ACC NR: AP6034919

The small values of n obtained by analyzing the kinetic curve (from 0.4 to 1) are attributed to the fact that the thermolysis reaction spreads simultaneously over the entire mass of the substance, i. e., that active reaction centers are present at the start of the chemical process. Orig. art. has: 2 figures and 5 formulas.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, A.N.; SEMENENKO, I.K.; MOISEYENKO, A.D., inzh.-mekhanik
(st.Nikitovka, Donetskoy dorogi)

Letters to the editor. Put' i put.khoz. no.7:45 '62. (MIRA 15:7)

1. Mostovoy master st. Orsha, Belorusskoy dorogi (for Yanchuk).
2. Starshiy dorozhnyy master, st. Sambor, L'vovskoy dorogi (for Semenenko).

(Railroads--Track)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, E.A.; MAKAROV, V.A.

Method of making a photometric wedge for measuring the reflective power of minerals. Min. sbor. no.17:207-210 '63. (MIRA 17:11)

1. Gosudarstvennyy universitet imeni Franko, L'vov.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

112-57-8-17143

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, p 174 (USSR)

AUTHOR: Yanchuk, G. M.

TITLE: Work of the Pechora Branch of VUGI on Supervisory Control of Shaft Mechanisms (O rabotakh Pechorskogo filiala VUGI po distantsionnomu kontrolyu i upravleniyu shakhtnymi mekhanizmami)

PERIODICAL: V sb.: Avtomatizatsiya proizv. protsessov v ugol'n. prom-sti (Collection: Automation of the Production in the Coal Industry), Moscow, Ugletekhizdat, 1956, pp 106-118

ABSTRACT: This article describes developmental work performed by the laboratory of the Pechora branch office of VUGI. This work includes: (1) a micromagnetic relay on the basis of KDR-1 or KDR-3 relay with 1-2 μw sensitivity, with controlled power up to 100 watts at 0.02 sec operating time or at 8-10 sec operating time in delay circuits (the relay can also serve as a zero indicator in bridge circuits); (2) use of a telephone-magneto-type tachometer generator for monitoring the rotation of a conveyor shaft, and use of an induction pickup for monitoring the travel of a scraper chain; (3) a central temperature-

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112-57-8-17143

Work of the Pechory Branch of VUGI on Supervisory Control of Shaft Mechanisms

monitoring desk for eight resistance-thermometer pickups; (4) an overcurrent high-speed relay used in PMV magnetic starters in place of fuses; (5) an automatic device for monitoring the insulation of a low-voltage shaft electric system. Ten illustrations.

A.V.V.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, G.M.

SOV/112-58-1-550

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 1, p 81 (USSR)

AUTHOR: Yanchuk, G. M., and Yasnyy, V. K.

TITLE: Monitoring and Automatic Overspeed Protection for Small Hoisting Machines (Kontrol' i avtomaticheskaya zashchita ot prevysheniya skorosti malykh pod"yemnykh mashin)

PERIODICAL: V sb.: Avtomatizatsiya v ugol'n. prom-sti, Moscow, Ugletekhizdat, 1956, pp 127-141

ABSTRACT: Monitoring and overspeed protection systems for small hoisting mechanisms should meet the following conditions. They should: (1) check the approach to the extreme top position of the hoisting vessel; (2) check overspeed. (3) Checking should if possible be of the step-type and, under optimum conditions, continuous type. (4) The system should provide a continuous self-monitoring of mechanical and electrical parts of the scheme. Various monitoring systems are considered, and their advantages and disadvantages evaluated. As a result of the above analysis, an inference is drawn that the most versatile

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SOV/112-58-1-550

Monitoring and Automatic Overspeed Protection for Small Hoisting Machines

and suitable schemes are those in which low-power permanent-magnet AC tachometer generators are used as actual-speed pickups.

S.A.P.

AVAILABLE: Library of Congress

1. Hoists--Control systems 2. Control systems--Design

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, G.M.; YASNYY, V.K.

Control and protection from overacceleration of mine hoists.
Ugol' 31 no.11:13-18 N '56. (MLRA 10:2)

(Mine hoisting) (Automatic control)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, G.M.

PHASE I BOOK EXPLOITATION SOV/5293

Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvoditel'nykh sil Khar'kovskogo ekonomicheskogo administrativnogo rayona, 1958.

Voprosy mashinostroyeniya; trudy konferentsii... (Problems of Machine Building; Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Khar'kov Economic Administrative Region) no. 3. Kiyev, Izd-vo AN UkrSSR, 1960. 182 p. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Sovet po izucheniyu proizvoditel'nykh sil UkrSSR.

Editorial Board: Resp. Ed.: A.A. Vasilenko, Academician of the Academy of Sciences UkrSSR; A.A. Gorshkov, Corresponding Member, Academy of Sciences UkrSSR; I.M. Postnikov, Doctor of Technical Sciences; S.M. Kutsenko; A.I. Adamenko, Candidate of Technical Sciences; G.M. Davydov, Candidate of Economical Sciences; Ed. of of Publishing House: S.D. Lepkiy; Tech. Ed.: R.A. Bunin.

PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, sovnarkhoz workers, and planning organizations.

COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; the development of new accessories for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into founding and die forging. No personalities are mentioned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

Glagolev, N.M. [Doctor of Technical Sciences at Khar'kov Polytechnical Institute]. The Present State of and Outlook for the Development of Engine Building 44

Koval', I.A. [Chief Designer at the GSKBD (Gosudarstvennoye Spetsial'noye Konstruktorskoye Byuro Dvigateley - State Special Engine-Design Bureau) in the "Serp i Molot" Plant]. Work Done by the "Serp i Molot" Plant in Khar'kov and by Its GSKBD in the Design of New Tractor and Combine Engines 61

Kashuba, B.P. [Chief Designer at the Khar'kovskiy traktornyy zavod (Khar'kov Tractor Plant)]. The All-Purpose T-75 Caterpillar Tractor 68

Garf, M.E., and O.Yu. Kramarenko [Candidates of Technical Sciences at the Institut liteynogo proizvodstva AN UkrSSR (Institute of Founding AS UkrSSR)]. Investigating the Dynamic Strength of Certain Constructions in the Tractor and Transportation Industries 75

Postnikov, I.M. [Doctor of Technical Sciences at the Institut elektrotekhniki AN UkrSSR (Electrochemical Institute AS UkrSSR)]. Basic Prospects for Research in the Field of Design of New Types of Electric Machinery 87

Perel'muter, M.M. [Candidate of Technical Sciences at the Khar'kov Branch of "Tyazhpromelektroproyekt"]. Prospects for the Development of Electric Drives 92

Problems of Machine Building (Cont.) SOV/5293

Zil'berman, B.Z. [Candidate of Technical Sciences at the Khar'kov Branch of "Tyazhpromelektroproyekt"]. The Use of Computers for Planning Production Processes 96

Sorochenko, V.Ye. [Chief Equipment Designer at the Khar'kovskiy elektromekhanicheskiy zavod (Khar'kov Electromechanical Plant)]. Trends in the Development of Electrical-Apparatus Manufacture at the Khar'kov Electromechanical Plant 99

Yanchuk, G.M. [Candidate of Technical Sciences at Zavod "Krasnyy Metallist" (The Krasnyy Metallist Plant)]. Equipment for Automation in Coal Mining 105

Ogan'yan, Ya.P. [Engineer at the Khar'kov Branch of "Tyazhpromelektroproyekt"]. The Use of Mechanical Rectifiers in Electrolytic Processes 115

Lomakin, V.P. [Engineer at the Khar'kov Electromechanical Plant]. The Manufacture of Mechanical Rectifiers 127

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, G.M., kand.tekhn.nauk; GUMANYUK, M.N., inzh.

Magnetoelastic elements for automatic control systems in coal mining. Ugol' Ukr. no.6:32-34 Je '60. (MIRA 13:7)

1. Konotopskiy zavod "Krasnyy metallist."
(Automatic control--Equipment and supplies)
(Coal mines and mining)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

GUMANYUK, Mstislav Nestorovich, kand. tekhn.nauk; YANCHUK, G.M., kand. tekhn. nauk, retsenzent

[Magnetoelastic transducers in automatic control] Magnito-uprugie datchiki v avtomatike. Kiev, Tekhnika, 1965. 154 p. (MIRA 18:8)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

POKIDOV, N., inzh.; YANCHUK, I., inzh.

Road, speed and time. Znan.-sila 38 no.2:7 F '63. (MIRA 16:3)
(Reinforced concrete) (Railroads--Track)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, I.K., inzh.

Track laid on a reinforced concrete base. Put' i put. khoz. no.6:30 Je '59. (MIRA 12:10)
(Railroads--Track) (Railroads--Ties, Concrete)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, I.K., inzh.

Upper structure of tracks made of precast reinforced concrete panels without ties or ballast, for special heavy trains from metallurgical plants. Stal' 23 no. 3:284-286 Mr '64. (MIRA 17:5)

1. Promtransniiproyekt.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, I.K., inzh.

Reinforced concrete foundation for industrial tracks. Put' i put. khoz. 8 no.6:21 '64. (MIRA 17:9)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, N.

Man with a probing mind. Metallurg 8 no.11:31-32 N '63.
(MIRA 16:12)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

1. YANCHUK, N. A.

2. USSR (600)

4. Copper Plating

7. Rubber-cap protection of the section which is not to be copper-plated when a part is submerged in the electrolyte. Avt. trakt. prom. no. 9, 1952

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

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

S/601/62/000/016/028/029
E192/E382

AUTHORS: Beniyeva, T.Ya. and Yanchuk, N.M.

TITLE: Equipment for measurement of the attenuation of ultrasonic waves in metals and investigation of the influence of grain size on the attenuation

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut metalofyzyky. Sbornik nauchnykh rabot. no. 16. Kiev, 1962. Voprosy fiziki metallov i metallovedeniya. 205 - 212

TEXT: Results of measurements of the frequency-dependence of the attenuation of ultrasonic waves in titanium, chromium, nickel, aluminum, iron and copper are reported. Pulsed ultrasonic equipment operating with fixed frequencies of 5, 9, 15, 21 and 25 Mc/s was designed for this purpose. The transducers were in the form of half-wave, X-cut quartz units for frequencies of 3 and 5 Mc/s, which were excited either at the fundamental or odd harmonics. The attenuation of an elastic wave of small amplitude is exponential but when measuring the attenuation by the pulse method the exponential law can be distorted due to the lack of

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perfect parallelism between the operating surfaces of the sample. A circuit producing a high-frequency exponentially decaying signal was therefore included in the equipment and the signal was superimposed on the reflected pulses. This signal was used to check the exponential character of the reflected pulses and for determining the attenuation. The experiments show that the attenuation in aluminium increases approximately linearly with frequency. The samples with larger grains show a comparatively low attenuation over the whole investigated frequency range. As regards the attenuation of ultrasonic waves in titanium and chromium, a linear increase in attenuation is observed for frequencies up to 15 Mc/s; above this frequency, the attenuation rapidly increases. Secondly, over the whole frequency range the attenuation in chromium is only slightly higher than that in titanium. In iron, copper and nickel the attenuation increases with frequency and grain size. Measurement of the attenuation in iron, copper and nickel was carried out at wavelengths which were much longer than $\bar{D}$ (average grain size). In this case, the scattering of the

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YANCHUK, N. N.

The first N. A. Minkevich prize was given to the following teams: Candidate of Technical Sciences A. D. Assonov, Engineers N. I. Tereshchin, V. F. Nikonov, D. I. Kostenko, S. G. Marinchev, I. S. Yurkov, N. N. Inshakova, N. N. Yanchuk, A. A. Bulatnikov and G. Ye. Litvin (Automobile Works imeni Likhachev) for their paper "Investigation and Introduction of the Process of Nitrocementation by Direct Isothermal Hardening in an Alkali Inside Muffleless Equipment", their design of a muffleless furnace heated by vertical radiation tubes is of interest.

Results of the 1958 Competition for Obtaining imeni D. K. Chernov and imeni N. A. Minkevich Prizes, Metallovedeniye i termicheskaya obrabotka metallov, 1959, No. 6, pp 62-64

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, R.A.

Origin of crystals in supersaturated solutions of saccharose during the latent period. Pratsi Od. un. zbir. mol. vchen. un. 148 no.3: 17-20 '58 (MIRA 13:3)

1. Nauchnyy rukovoditel' - dots. G. L. Mikhnevich [H.L.Mikhnevych]
(Sugar) (Crystallization)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

S/058/63/000/003/062/104
A059/A101

AUTHOR: Yanchuk, R. A.

TITLE: Growing of crystals in supersaturated sucrose solutions

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 48 - 49, abstract 3E319 ("Pracı Odes"k. un-tu. Pryrodn. n., Tr. Odessk. un-ta. Yestestv. n.", 1961, v. 151, no. 6, 44 - 50, Ukrainian)

TEXT: Prolonged stirring of a saturated sucrose solution results in a decrease in concentration by an appreciable amount. The time of stirring required for a decrease in the concentration by a given value, such as 0.4%, is termed the latent period τ_1. The distribution according to size of the crystals formed after having stirred the supersaturated solution for various periods of 0.5 - 3.8 τ_1 was determined. No crystal formation was observed for periods less than 0.5 τ_1. The most intense crystal formation was observed in the period of 0.5 - 1.0 τ_1. With still longer periods of stirring, a decrease in the velocity of crystal formation is established which can be explained by the decrease of supersaturation resulting in increased critical dimensions of the seed crystals. [Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

L 18979-63 EWT(1)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3/IJP(C) JD/JW

ACCESSION NR: AT3001918 S/2912/62/000/000/0219/0226

64
60

AUTHORS: Mikhnevich, G. L. (Deceased), Yanchuk, R. A.

TITLE: Investigation of the dimensional distribution of crystals in the latent period by means of the optical method

SOURCE: Kristallizatsiya i fazovyye perekhody. Minsk, Izd-vo AN BSSR, 1962, 219-226

TOPIC TAGS: crystal, crystallization, crystallography, period, latent, kinetics, polydispersed system, sucrose, tartaric acid

ABSTRACT: The paper sets forth the theory of and describes experiments intended to study the kinetics of the crystallization of a supersaturated solution during the period of latency, and more especially to study the dimensional distribution of the crystals. The optical method of the diffraction of light was chosen. Basic advantage of this method for the determination of the dimensions of particles of polydispersed systems is the possibility it affords of monitoring processes in a system that do not participate in its progress. The calculation method for the dimensional particle distribution as obtained from the diffraction of light for a polydispersed system is that of J. H. Chin et al. (J. of Phys. Chem., v.59, 1955, 841).

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

L 18979-63

ACCESSION NR: AT3001918 4

The experimental equipment described comprises a PRK-2 Hg lamp, the light of which is passed through a filter with a pass wave length of 436 mmicron and is then condensed by a lens L_1 onto a minute aperture located in the focus of a lens L_2. The parallel light beam issuing from lens L_2 is bounded by a diaphragm D and passes through a crystallizer KR with plane-parallel windows. The refracted, as well as the unrefracted, light is collected in a lens L_3 and is projected onto a photographic film. A curve of the intensity of the refracted light is plotted as a function of r; r is the product of the semiangle of refraction of the light times the focal distance of the lens L_3. The analytical method for the determination of the relative dimensional distribution of crystals is explained. The refracted-light method was applied to the determination of the dimensional distribution of crystals in the latent period of crystallization of solutions of sucrose and tartaric acid under intensive stirring. The distribution of the crystals at the beginning of the latency period lies within the region of 15 to 17 micron and varies but little with the time of stirring. If the stirring time is 0.58 the latent period, the entire dimensional distribution curve is sharply shifted toward the region of smaller particles. The formation of an initial distribution is explained by the growth of crystals on impurities the dimensions of which are larger than the critical dimension of a nucleus. Spontaneous nucleation begins after 1/2 of the latent period; this fact per se establishes the effective latent period of spontaneous

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ACCESSION NR: AT3001918

nucleation. Orig. art. contains 4 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 16Apr63 ENCL: 00

SUB CODE: CH, PH, MA NO REF SOV: 003 OTHER: 002

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

BAKHANOV, V.P.; YANCHUK, R.A.

Kinetics of the formation of crystallization centers in a supercooled liquid on subcritical size impurity particles. Koll. zhur. 26 no.5:549-554 S-O '64.

(MIRA 17:10)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

INDICHENKO, P.D., dotsent; YANCHUK, V.Z., kandidat yuridicheskikh nauk vidpovidal'niy redaktor

[Contractual relations between machine-tractor stations and collective farms at a new stage] Dohoviri vidnosyny MTS z kolhospamy na novomu etapi. [Kyiv] Vyd-vo Kyivs'koho derzh.univ. im T.H.Shevchenka, 1955. 45 p. (MLRA 9:8)

(Collective farms) (Machine-tractor stations)
(Contracts)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUK, Ya.Ye. (Lubny).

Treatment of verrucose skin diseases with Chelidonium juice.
Fel'd.i akush. no.1:39-40 Ja '54. (MLRA 7:1)
(Botany, Medical) (Skin--Diseases)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

KRAVCHENKO, T.A.; SHATALOV, A.Ya.; YANCHUK, Ye.K.

Corrosion of aluminum in alkaline solutions with additions of oxidizers. Pt.1. Izv.vys.ucheb.zav.;khim. i khim.tekh. 7 no. 1:56-60 '64. (MIRA 17:5)

1. Voronezhskiy gosudarstvennyy universitet, kafedra fizicheskoy khimii.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUKOVICH, A.E.

The TGD crawler tractor. Biul.tekh.-ekon.inform. no.6:43-44 '60. (MIRA 13:8)

(Crawler tractors)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

SOKOLOV, A.A.; PETRENKO, F.F.; KOVALEV, V.F.; YELISEYEV, M.A.; ROZENPLENTER, N.F.; YANCHUKOVICH, A.E.; CHUBAROV, N.D.; KONTSEVOY, N.S.; PREOBRAZHENSKIY, ~~V.A.; BOCHAROV,~~ M.S.; KASHCHEYEV, G.G.; SELENNOV, G.V.; SAFONOV, K.Ye.; FUNIKOV, S.A.; RASKIN, G.I.; RABKIN, B.M.

Vadim Konstantinovich Gutsunaev; obituary. Torf.prom. 39 no.3:37 '62. (MIRA 15:4)
(Gutsunaev, Vadim Konstantinovich, 1914-1942)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

VISLAVNYKH, N.A.; YANCHUKOVSKIY, V.N.

Regularities in the distribution of commercial micatization in the Slyudyanka phlogopite deposit. Razved.i okh. nedr 29 no.1:21-26 Ja '63. (MIRA 16:2)

1. Vostochno-Sibirskiy geologicheskiy institut AN SSSR (for Vislavnykh).
2. Slyudyanskaya geologorazvedochnaya partiya (for Yanchukovskiy).
(Slyudyanka region—Phlogopite)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

CHULKOV, N.T.; YANCHUKOVSKIY, V.N.

Geologic structure and prediction of phlogopite occurrences in the Slyudyanka. Zakonom. razm. polezn. iskop. 6:420-440 '62. (MIRA 16:6)

1. Irkutskoye geologicheskoye upravleniye.
(Slyudyanka region(Irkutsk Province)—Phlogopite)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUR, A.M.

4587. HIGH-SPEED SHAFT-SINKING AT TSENTRAL'NO-ZAVODSKAYA MINE IN DONBASS. Yanchur, A.M. and Matsilevskii, G.B. (Ugol (Coal) 1949, (8), 24-27). (L).

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANCHUR, A.M., dotsent, kandidat tekhnicheskikh nauk.

Excavating the mouth of a vertical mine shaft. Ugol' 29 no.5:13-16 My '54. (MLRA 7:6)

1. Donetskiy industrial'nyy institut. (Shaft sinking)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

GUSEYEV, Aleksandr Georgiyevich; YANCHUR, Aleksandr Mikhaylovich; KATSAUROV, I.N., redaktor; SMIRNOV, L.V., redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor.

[Collection of examples and problems in mining] Sbornik primerov i zadach po provedeniiu gornykh vyrabotok. Moskva, Ugletekhizdat, 1956. 147 p. (Mining engineering) (MLRA 9:6)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

Ignatiev, A. M.

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSHTEYN, S.A., inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BONDARENKO, A.P., inzh.; BUCHNEV, V.K., kand. tekhn. nauk; VERESKUNOV, G.P., kand. tekhn. nauk; VOLKOV, A.F., inzh.; GELESKUL, M.N., kand. tekhn. nauk; GORODNICHEV, V.M., inzh.; DEMENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk; YEPIFANTSEV, Yu.K., kand. tekhn. nauk.; YERASHKO, I.S., inzh.; ZHEDANOV, S.A., kand. tekhn. nauk; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, E.M., inzh.; ZORI, A.S., inzh.; KAPLAN, L.B., inzh.; KATSAUROV, I.N., dots.; KITAYSKIY, E.Y., inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand. tekhn. nayk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand. tekhn. nauk; MAN'KOVSKIY, G.I., doktor tekhn. nauk; MATKOVSKIY, A.L., inzh.; MINDELI, E.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYYENBURG, V.Ye., kand. tekhn. nauk; POKROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, E.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SEMEVSKIY, V.N., doktor tekhn. nauk; SKIRGELLO, O.B., inzh.; SUKHUT, A.A., inzh.; SUKHANOV, A.F., prof., doktor tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; TRUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FEDYUKIN, V.A., inzh.; KHOKHLOVKIN, D.M., inzh.; KHRABROV, N.I., kand. tekhn. nauk; CHEKAREV, V.A., inzh.; CHERNAVKIN, N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANCHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPLUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T.,

(Continued on next card)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

ANDROS, I.P.---(continued) Card 2.
red.; SANOVICH, P.O., red.; VOLOVICH, M.Z., inzh., red.; GORITSKIY, A.V., inzh., red.; POLUYANOV, V.A., inzh., red.; FADEYEV, E.I., inzh., red.; CHECHKOV, L.V., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.; NADEINSKAYA, A.A., tekhn. red.

[Mining; an encyclopaedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav. red. A.M. Terpigorev. Moskva, Gos. nauchno-tekhnicheskoe izd-vo lit-ry po ugol'noi promyshl. Vol.4 [Mining and timbering] Provedenie i kreplenie gornykh vyrabotok. Red-kollegiia tom: N.M.Pokrovskii... 1958. 464 p. (MIRA 11:7)

(Mine timbering) (Mining engineering)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

ORLOV, Vasiliy Vasil'yevich; YANCHUR, Aleksandr Mikhaylovich; BABICHEV, Nikolay Semenovich; PETROV, Anatoliy Moiseyevich; PONOMARENKO, Aleksey Kuz'mich; GUDZ', Aleksandr Grigor'yevich; POKROVSKIY, N.M., zasl. deyatel' nauki i tekhniki RSFSR, prof., doktor tekhn. nauk, retsenzent; CHERNEGOVA, E.N., ved. red.

[Mine workings and their support] Provedenie i kreplenie gornykh vyrabotok. [By] V.V.Orlov i dr. Moskva, Nedra, 1965. 496 p. (MIRA 18:7)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

D'YACHENKO, P.K.; KATAYEVA, G.A.; POMOSOV, D.V.; RYAZHKIN, G.A.; STENGANTSEV, V.I.; FOY, L.K.; CHUDAKOV, V.G.; YANCHUR, N.M.

Effectiveness of neuroplegic substances and hypothermia in the prevention and treatment of traumatic shock in irradiated animals. Voen.-med. zhur. no.7:86 Jl '61. (MIRA 15:1)
(AUTONOMIC DRUGS) (HYPOTHERMIA)
(SHOCK) (RADIATION SICKNESS)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

TKACHENKO, S.S., dotsent; YANCHUR, V.N.

Methodology for surgical treatment of traumatic dislocation of the acromial end of the clavicle. Vest. khir. no.12:67-70 '62. (MIRA 17:11)

1. Iz kafedry travmatologii i ortopedii (nachal'nik - prof. I.L. Krupko) Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

KAPLAN, V.V., kand. tekhn. nauk; NASHATYR', V.M., kand. tekhn. nauk; YANCHUS, ELI., inzh.

Synthetic tests of electric cutouts. Elek. sta. 34 no.5:65-68 My '63. (MIRA 16:7)

(Electric cutouts—Testing)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

KAPLAN, V.V., kand. tekhn. nauk (Leningrad); NASHATYR', V.M., kand. tekhn. nauk (Leningrad); YANCHUS, E.I., inzh. (Leningrad)

Synthetic tests of circuit breakers with nonremoved network short-circuits. Elektrichestvo no.9:80-85 S '64. (MIRA 17:10)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

L 27274-66 EWT(1)

ACC NR: AP6016875 SOURCE CODE: UR/0281/65/000/006/0078/0093

AUTHOR: Bogatenkov, I. M. (Leningrad); Kaplan, V. V. (Leningrad); Kostenko, M. V. (Leningrad); Nashatyr', V. M. (Leningrad); Yanchus, E. I. (Leningrad)

ORG: none

TITLE: Testing the commutation capacity of a high voltage apparatus for high-power networks

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 6, 1965, 78-93

TOPIC TAGS: circuit breaker, electric power transmission, electric inductance, electric capacitance

ABSTRACT: Results are presented from investigations performed using a network mock-up to synthetically test high-voltage circuit breakers and dischargers to be used in 500-1250 kv power networks. The testing of individual spark-damping elements of breakers is statistically justified. A circuit for combined testing of valve dischargers, including a power system which serves as a source of accompanying current, is analyzed. This system provides full correspondence in current and voltage levels, capacitance and inductance to an actual power network, allowing the breakers to be tested with assurance that the test will correspond to actual operating conditions of the breakers after they are installed in power systems. Orig. art. has: 13 figures. [JPRS]

SUB CODE: 09, 10 / SUBM DATE: 05Jun65

Card 1/1 UDC: 621.316.542.064.241.027.3.001.4: 621.316.933.001.4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANDA, F.

Hygiene of children and adolescents in Czechoslovakia. Gig.i san. 24 no.11:58-60 N '59. (MIRA 13:4)

1. Iz sanitarno-gigiyenicheskogo fakul'teta Prazhskogo universiteta i Instituta gigiyeny v Prage.
(CHILD WELFARE)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANDA, Fr.

Czechoslovakia

Doctor of Medical Science

Department of School Hygiene (Katedra po uchilishtna khigiena), Prague.

Sofia, Khigiena i Zdraveopazvane, No 4, 1966, pp 415-419.

"A Review Upon theScientific Activity in the Field of the Hygiene by the Children and the Rising Generation of Czechoslovakia."

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

PEREVOZNIKOV, P., udarnik kommunisticheskogo truda; GODUNOV, I., matros, chlen narodnoy druzhiny; YANDAL'TSEV, A., starshiy mashinst

For public judgement. Sov. profsoiuzy 16 no.19:40-41 O '60. (MIRA 13:10)

1. Predsedatel' sudovogo komiteta traulera "Monchegorsk" (for Perevoznikov). 2. Trauler "Stavropol'" (for Godunov, Yandal'tsev).
(Archangel--Trawls and trawling)
(Archangel--Social problems)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANDASHEVSKIY, B.

Auditing

Let us make a more penetrating analysis of agency accounts. Den. i kred. No. 1, 1952.

Monthly List Of Russian Accessions, Library of Congress, March 1952. Unclassified.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANDERA, A. (Chekhoslovakiya)

Czechoslovakian scientist awarded the Nobel prize. Tekh. mol. 28 no.2:3-4 '60. (MIRA 13:6)
(Heyrovsky, Jaroslav, 1890-)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

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

[Economic efficiency of the construction of new railroad lines; problems of methodology.] Ekonomicheskaya effektivnost' stroitel'stva novykh zheleznodorozhnykh linii; voprosy metodiki. Moskva, Transport, 1965. 111 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.293) (MIRA 18:7)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

KHUDOZHILOV, K., inzhener; YANDOUSH, V., inzhener.

Vertical transport in housing construction in Czechoslovakia. Mekh.stroi. 13 no.4:29-32 Ap '56. (MLRA 9:7)
(Czechoslovakia--Cranes, derricks, etc.)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

37389

S/020/62/143/006/023/024
B101/B110

18.8300

AUTHORS: Spitsyn, Vikt. I., Academician, Yandushkin, K. N., Balezin, S. A., and Kuleshov, I. M.

TITLE: Study of the atmospheric corrosion of radioactive Armco iron and steel-2 specimens

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 6, 1962, 1406-1408

TEXT: The effect of Fe^{59}($T_{1/2}$ = 45.1 days; β: E_{max} = 0.27; 0.46; 1.56 Mev; γ: E = 0.19; 1.10; 1.29 Mev) on Armco iron and carbon steel-2 of the following composition was studied:

	C	Mn	Cr	S	P	Ni	Si
Armco iron	0.04	0.017	traces	0.020	0.010	0.18	0.2
steel-2	0.17	0.44	0.3	0.025	0.028	traces	0.24

The specimens were irradiated with slow neutrons in a nuclear reactor ($0.87 \cdot 10^{13}$ neutrons/$cm^2 \cdot sec$) for 48 hrs. . The induced radioactivity

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was 0.22 mCu/g. Corrosion was determined from the increase in weight at 23 - 25°C in air with 100% relative humidity, and compared with the corrosion of non-irradiated specimens. It was found that irradiation increased the corrosion rate considerably: The corrosion rate of Armco-iron specimens with a specific radioactivity of 0.2 mCu/g was increased by 178 times, and that of steel-2 specimens by 103 times. The increase in corrosion rate is particularly strong within the first 24 hrs. Furthermore, the corrosion rate was found to depend on the specific activity (Fig. 3). Grounding of the irradiated specimens in order to avoid anodic polarization by β-irradiation reduced corrosion but did not remove the irradiation effect. The presence of γ-FeOOH containing small impurities of α-FeOOH and Fe_2O_4 in the corrosion products of both specimens was revealed by X-ray photography. Atmospheric corrosion of iron is attributed to: (a) increased ionic conductivity of the oxide film as a result of lattice defects and distortions; or (b) to increased conductivity as a result of the transition of additional electrons into the conduction band, whereby the cathodic reaction is facilitated. There are 3 figures.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR); Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V. I. Lenina (Moscow State Pedagogical Institute imeni V. I. Lenin).

SUBMITTED: January 11, 1962

Fig. 3. Corrosion of Armco iron and steel-2 as a function of specific activity. (1) Armco iron; (2) steel-2; Legend: abscissa: specific activity, mCu/g; ordinate: increase in weight.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANDUSHKIN, K.N.; BALEZIN, S.A.; SPITSYN, Vikt.I., akademik

Electrode potentials of radioactive specimens of Armco iron and steel in distilled water and in aqueous solutions of inhibitors. Dokl. AN SSSR 147 no.1:155-158 N '62. (MIRA 15:11)

1. Institut fizicheskoy khimii AN SSSR i Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina.
(Iron—Corrosion) (Radioactivity)
(Electromotive force)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

TOPIC TAGS: metal internal radioactivity, corrosion inhibitor, metal corrosion, corrosion test

ABSTRACT: The effect of internal radioactivity in Armko iron and grade 2 steel

Card 1/2

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

L 52303-65

ACCESSION NR: AP5068800

was 6, 60, and 90 days. The initial sample radioactivities were [illegible]

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANEI, Endre

Theoretical problems concerning the resistance of microbes to antibiotics. Antibiotiki 5 no.4:108-114 Jl-Ag '60. (MIRA 13:9)

1. Institut obshchey gigiyeny Meditsinskogo universiteta, Debretsen, Vengriya.
(ANTIBIOTICS) (BACTERIA, EFFECT OF DRUGS ON)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YAMENKO, N. N. PA 29/49T45

USSR/Mathematics - Geometry, Non-Euclidean Feb 49
Mathematics - Geometry, Differential

"Geometric Structure of Small-Type Surfaces," N. N. Yanenko, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 5

Attempts to establish geometric characteristics of small-type surfaces (t equals 0, 1, 2). A certain arithmetical invariant of a surface, called type (t), was introduced by Allendorfer while studying general problems on enclosure of Riemann metrics in multi-dimensional Euclidean spaces. Submitted by Acad I. G. Petrovskiy, 2 Dec 48.

29/49T45

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANENKO, N. N.

Mathematical Reviews
Vol. 14 No. 8
Sept. 1953
Geometry.

9-10-54
LL

Yanenko, N. N. Certain necessary criteria for deformable surfaces V_m in an $(m+q)$-dimensional Euclidean space. Trudy Sem. Vektor. Tenzor. Analizu 9, 236–287 (1952). (Russian)

The paper mainly supplies detailed proofs for results announced by the author [Doklady Akad. Nauk SSSR (N.S.) 72, 857–859, 1025–1028 (1950); 82, 685–688 (1952); these Rev. 12, 357; 14, 87]. Noteworthy among the additional results is the observation that the author's work contains Allendoerfer's theorem [Amer. J. Math. 61, 633–644 (1939); these Rev. 1, 28] that the type of a nonrigid manifold cannot exceed two. *H. Busemann.*

math
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YANENKO, N. N.

Surfaces

Relationship between metric and projective properties of surfaces. Dokl. AN SSSR 82 no. 5, 1952

Recd. 31 Oct. 1951

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

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YANENKO, N. N.

FA 234T76

USSR/Mathematics - Riemannian Metric 1 Apr 52

"Concerning the Class of Riemannian Metric," N. N. Yanenko

"Dok Ak Nauk SSSR" Vol 83, No 4, pp 533-536

Formulates the necessary and sufficient criteria governing the class $\leq q$ for metrics of type $t \geq 3$. Also formulates the main theorem of existence with the aid of which the criteria governing the class of metrics are obtained. The class of a m-dimensional real Riemannian metric $ds^2 = g_{ij}du^i du^j$ $(i, j = 1, \ldots, m)$ is the number

234T76

q such that the metric ds^2 is realized in the form of a m-dimensional surface V_m in a $(M+1)$-dimensional real Euclidean space E_{m+q} but is not realized in a space of lesser dimension. Submitted 25 Jan 52 by Acad A. N. Kolmogorov.

234T76

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANENKO, N. N.

USSR/Mathematics - Metrics 11 Apr 52

"Metrics of Class 2," N. N. Yanenko

"Dok Ak Nauk SSSR" Vol LXXXIII, No 5, pp 667-669

In a previous article (ibid. Vol LXXXIII, No 4, 1952) the author gave the necessary and sufficient conditions that a given metric $ds^2 = g_{ij}w^i w^j$ $(i,j=1,\ldots,m;$ w^i: linear forms of the differentials $du^1,\ldots,du^m)$ possess a class equal to q for the case where the type of metric t is equal or greater than 3. The general theory is completely applicable to the case q=2. In the case of metrics of class 2, he formulates theorems of subject necessity and sufficiency. Submitted by Acad A. N. Kolmogorov 25 Jan 52.

218T60

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YANENKO, N.N.

Mathematical Reviews
Vol. 14 No. 11
December, 1953
Geometry

Yanenko, N. N. Some questions of the theory of imbedding of Riemannian metrics in Euclidean spaces. Uspehi Matem. Nauk (N.S.) 8, no. 1(53), 21-100 (1953). (Russian)

A rather long, mostly expository, paper dealing with the problem of imbedding a Riemann space V_m in Euclidean space E_N. About half of the paper is devoted to the algebra of skew-symmetric forms and to exterior differential forms, which were used so effectively by Cartan in all sorts of problems of differential geometry. The author carefully proves even the classical theorems such as the necessity and sufficiency of the equations of Gauss and Peterson-Codazzi for hypersurfaces. After defining the rank and type of a Riemann space the author obtains the necessary and sufficient conditions that a V_m should be embeddable in E_{m+r}. He also proves that for a V_m of class 1 and rank $r \geqq 4$ the equations of Peterson-Codazzi are consequences of the equations of Gauss and that spaces of class p and type $t > 2$ are not deformable. The projective properties of rank and type are briefly considered.

M. Knebelman.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

TARENKO, Nikolay Nikolayevich

Dr. Physico-Mathematical Sciences

Trans. 2 Jan 55

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[illegible]

[illegible] results have been previously given
[Doklady Akad. Nauk SSSR, N.S. 64, 641, 644, 65, [illegible]

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other projective theorems but they are rather obvious

Pullman, Wash.

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Yanenko N. N.

$$u(x, 0) = \varphi(x), \quad v(x, 0) = \psi(x), \quad -\infty < x < +\infty,$$

mit beliebig glatten Funktionen $\varphi(x)$ und $\psi(x)$ [illegible] für die Ausbildung solcher Unstetigkeiten zu gewinnen.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

[illegible] Parameter α, β und die abhängigen Veränderlichen x, y gewinnt Verfasser die Beziehungen [illegible]

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YANENKO, N. N.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress *(Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpst., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Yanenko, N. N. (Moscow). Problems Relating to Embedding of Riemann Metrics into Euclidean Spaces. 177-178

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Mention is made of Novikov, P. S.

Zaslavskiy, I. D. (Leningrad). Tseytin, G. S. (Leningrad). On the Relations Between the Fundamental Properties of Constructive Functions. 180-181

There is 1 USSR reference.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

YANENKO, N.N.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Turkin, V. K. (Moscow). Mathematical Methods in the Theory of Isotopes Separation. 226

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Bashmakova, I. G. (Moscow). Interpretation by Ancient Greek Mathematics of Some Problems of Mathematical Analysis. 228-229

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 8921

Author : Yanenko, N.N.

Title : Asymptotic Formulas for the Functionals of the Solution of the Thomas-Fermi Equations

Orig Pub : Tr. 3-go Vses. matem. s"ezda. T. 1. M., AN SSSR, 1956, 226-227

Abstract : The differential equation $d^2\beta/ds^2 = sI_{1/2}(\beta/s)$ is considered with boundary conditions $\beta(0) = \beta_0$, $d\beta/ds = \beta/s = f$ at $s=b$.

Here $I_k(y) = \int_0^\infty x^k dx/(e^x - y + 1)$. The functionals of the solution $\beta(s)$ have the form

$$L_1 = (b\beta_0)I_{3/2}(f), \quad L_2 = (1/\beta_0)\int_0^b I_{3/2}(\beta/s)s^2 ds.$$

Asymptotic formulas are obtained for the functionals L_1 and L_2 at $\beta_0 \to 0, \infty$; $b \to 0, \infty$ (4 cases). The formulas obtained are useable in the theory of the equations of state of nonatomic gas.

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ЛЕНКО, Н.М.

are the components of any two vectors in S_p, and

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dmeier, Amer. J. Math. 61, no. 3 (1939) 633-644; MR 1,

20] coincide with T_1 and T_2 respectively in V_{2n+1} the

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YANENKO, N.N.

Progressive waves of systems of quasilinear equations. Dokl. AN SSSR 109 no.1:44-47 Jl-Ag '56. (MLRA 9:10)

1.Otdeleniye prikladnoy matematiki Matematicheskogo instituta imeni V.A. Steklova Akademii nauk SSSR. Predstavleno akademikom S.L. Sobolevym.
(Differential equations)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

JANENKO, N.N.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1432
AUTHOR ARSENIN, V.JA., JANENKO, N.N.
TITLE On the Interaction between Shock Waves and Propagated Waves.
PERIODICAL Dokl.Akad.Nauk, 109, fasc. 4, 713-716 (1956)
Issued: 10 / 1956 reviewed: 10 / 1956

For the two-dimensional flow of a perfect isothermal gas it is true that:

$$\varrho\,(\partial v/\partial t+v\partial v/\partial u)+c^2\partial\varrho/\partial u = 0;\ \partial\varrho/\partial t+v\partial\varrho/\partial u + \varrho\partial v/\partial u = 0 \qquad (1)$$

Here $c^2=aT$; $p=c^2\varrho$, p - pressure of the gas, ϱ - density, v - velocity, T - temperature, u - Euler's coordinate. Herefrom results, by the introduction of RIEMANN'S invariants $r = c\ln\varrho + v$ and $s = -c\ln\varrho + v$, the following system of "equations of invariants":

$$\partial r/\partial t + ((r+s)/2 + c)\partial s/\partial u = 0;\ \partial s/\partial t+((r+s)/2 - c)\partial s/\partial u = 0. \qquad (2)$$

To the system (1)(2) there correspond two families of characteristics:

I. The r-characteristics: $du/dt = v + c = (r+s)/2 + c$
II. The s-characteristics: $du/dt = v - c = (r+s)/2 - c$ (3)

The HUGONIOT'S conditions for the front of a shock wave, which are valid in this case, are given and expressed by the invariants.
A motion is a propagated wave only if even only one of the invariants r,s remains constant in the zone of this motion. The propagated wave may be a rarefaction- or a compression wave. Here the propagated wave is written down in RIEMANN'S form.
On the occasion of the passage of a shock wave past a propagated wave another propagated wave occurs behind the front of the shock wave in the zone of

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Dokl.Akad.Nauk,109,fasc.4, 713-716 (1956) CARD 2 / 2 PA - 1432

which the invariant remains constant. Here the case is investigated in which a shock wave moves over a background with decreasing pressure and increasing velocity. The velocity jump and the force of the shock wave, i.e. the ratio of pressures on the front of the shock wave remain constant as regards time. Consequently, also the velocity of the propagation of the shock wave in the material remains constant. Next, the velocity of the shock wave is expressed as a function of time.

In the case of a shock wave overtaking a propagated expansion wave a propagated compression wave is produced behind the shock wave. The corresponding formula is written down and specialized for automodellike waves.

The problem is solved in a similar manner if a shock wave moves along a propagated compression wave. On the occasion of interaction between shock waves moving against one another over a constant background their force remains constant.

INSTITUTION: Department for Applied Mathematics of the Mathematical Institute "V.A.STEKLOV" of the Academy of Science in the USSR.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

JANENKO, N.N.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1440
AUTHOR JANENKO, N.N.
TITLE Approximated Formulae for the Pressure and the Intrinsic Energy of a Gas in the Generalized Statistic Atom Model by THOMAS-FERMI.
PERIODICAL Dokl.Akad.Nauk, 109, fasc.5, 916-918 (1956)
Issued: 10 / 1956 reviewed: 10 / 1956

On the occasion of the generalization of the model by THOMAS-FERMI for the case of any temperature R.P.FEYNMAN et al., Phys.Rev.75, 156 (1949) obtained the following expressions for the pressure and for the intrinsic energy respectively of a monoatomic gas:

$P = (9,649.10^{14}Zk/A)\varrho T(L+1/Z)$ and $E=(14,47.10^{14}Zk/A)\varrho T(M+1/Z)$. Here A denotes the atomic weight, Z - nuclear charge number, ϱ - density in g/cm^3, T - temperature expressed in degrees, k - BOLTZMAN'S constant, L and M - functions of ϱ and T, which are functionals of the electron density within the atoms.
Here asymptotic expressions for the functions $L(\varrho,T)$ and $M(\varrho,T)$ are derived for the following limiting cases:

1) $T \to \infty$ $(\beta_o \to 0, b \to \infty)$ 2) $\varrho \to \infty$ $(b \to 0)$

3) $T \to 0$ $(\beta_o \to \infty, b \to 0)$ 4) $\varrho \to 0$ $(b \to \infty)$

Here $\beta_o = Ze^2/ckT$, $b = a/c = (1/c)((4\pi/3)6,023.10^{23}\varrho/A)^{-1/3}$, $s = r/c$, $c^2 = h^3kT/16\pi^2(2mkT)^{3/2}e^2$. Here h denotes PLANCK'S constant, e - the charge of the electron, r - the distance to the nucleus, a - the radius of the atom. The follow-

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ing conclusions are drawn as to the properties of the solution: 1.) The integral curves (s) are in all cases curved downwards. 2.) The function $\beta = \beta(s)$ attains its maximum only at the limit. 3.) $d\beta/ds$ increases monotonously in (0,b). 4.) the boundary condition $d:/ds = \beta/s$, $s = b$ means that the tangent to the curve $\beta = \beta(s)$ passes through the origin at the point $s = b$. The shape of the corresponding integral curves is shown in a diagram.

The geometric character of the approximation employed here is marked by the fact that in the cases 1,2, and 4 the left end of the curve : $= \beta(s)$ is at a finite distance, whereas the right end tends towards ∞.

By approximation of the tangent the following result is obtained for the cases 1, 2 and 4: $L = (2/9)(b^3/\beta_o)I_{3/2}(f)$, where $I_{1/2}(f) = 3\beta_o/b^3$. For the boundary transition the following is obtained for the cases 1 and 4: $L \to M_o \to 1$ (perfect gas), and for case 2: $L \to M_o \to$ const.$\varrho^{2/3}/T$. By an approximation, which is between that of chord- and tangent approximation the formula for $I_{1/2}(f)$ may be precisely expressed as follows: $I_{1/2}(f)=3\beta_o/b^3(1+\alpha), \alpha=(\varepsilon+\varepsilon^2)/2, \varepsilon=\beta_o/b$. For L one then obtains the formula $L=(2/9)(b^3/\beta_o)I_{3/2}(f)$ or (simplified) $L = 1/(1+\alpha)$. One further obtains $M_o=1-2(\varepsilon+\varepsilon^2)/(2+\varepsilon+\varepsilon^2)+\varphi(T)$, where $\varphi(T)$ is a certain function of T. In case 3 the following asymptotic formulae are obtained for sufficiently large ϱ: $L = \varphi(\varrho)(1/T)$ and $M_o = \Psi(\varrho)(1/T)$, where $\varphi(\varrho)$ and $\Psi(\varrho)$ are certain functions of ϱ.

INSTITUTION:

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24(0) PHASE I BOOK EXPLOITATION SOV/3104

Moscow. Inzhenerno-fizicheskiy institut. Kafedra matematiki

Sbornik nauchnykh rabot (Collection of Scientific Works) [Moscow?] Atomizdat, 1958. 194 p. 1,000 copies printed.

Tech. Ed. R.A. Negrimovskaya.

PURPOSE: This book is intended for applied mathematicians and theoretical physicists.

COVERAGE: This book contains a collection of articles by leading Soviet mathematicians and physicists on topics in atomic physics. The Thomas-Fermi generalized model of the atom, distributions, compression of an isothermic gas, boundary value problems, etc. are discussed. The book was published under the auspices of the Department of Mathematics of the Moscow Engineering-Physics Institute. No personalities are mentioned. References accompany individual articles.

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AVAILABLE: (Library of Congress (QA3.M72)

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YANENKO, N.N.

AUTHOR: Pogodin, Yu.Ya., Suchkov, V.A., and Yanenko, N.N. (Chelyabinsk)

40-22-2-6/21

TITLE: On Running Waves in the Equation of Gas Dynamics (O begushchikh volnakh uravneniy gazovoy dinamiki)

PERIODICAL: Prikladnaya matematika i mekhanika, 1958, Vol 22, Nr 2, pp 188-196 (USSR)

ABSTRACT: The authors investigate running waves in quasilinear differential equations of the type

$$A_{ijk}(u_1,\ldots,u_m)\frac{\partial u_j}{\partial x_k} = 0 \qquad (i,j,k, = 1,\ldots,m)$$

They denote a running wave to be of rank r, if it satisfies m - r functional dependences of the form

$$\varphi_\alpha(u_1,\ldots, u_m) = 0 \qquad (\alpha = 1,\ldots, m - r)$$

In a former paper there were investigated running waves of the rank 1 . In the present paper now waves of the rank m - 1 are investigated. A method for finding such waves is given and applied to gasdynamical problems. It can be shown that the

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On Running Waves in the Equation of Gas Dynamics 40-22-2-6/21

gasdynamical equations possess the given form for polytropic gases. Running waves for plane motions of rank 2 for poly - tropic gases are particularly investigated and the solutions are discussed. Several practical examples of application are calculated in the last section. E.g. the motion of a gas between two plane walls, the motion of isothermal gases, and motions in which strong discontinuities occur. There are 5 figures, and 1 Soviet reference.

SUBMITTED: October 8, 1957

1. Gases--Properties 2. Wave analysis--Applications

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030007-3

20-119-3-11/65

AUTHOR: Pogodin, Yu.Ya., Suchkov, V.A. and Yanenko, N.N.

TITLE: On Progressive Waves of the Equations of Gas Dynamics (O begushchikh volnakh uravneniy gazovoy dinamiki)

PERIODICAL: Doklady Akademii Nauk, 1958, Vol 119, Nr 3, pp 443-445 (USSR)

ABSTRACT: As a progressive wave of rank r the solution $u_i = u_i(x_1,\ldots,x_m)$ of the quasilinear system

$$a_{ijk}(u_1,\ldots,k_m)\frac{\partial u_i}{\partial x_k} = 0 \qquad i,j,k = 1,\ldots,m$$

is denoted which satisfies $m - r$ functional relations $\varphi_\alpha(u_1,\ldots,u_m) = 0$, $\alpha = 1,\ldots, m-r$. In the example of the equations of motion of a polytropic gas the progressive waves of rank 2 are considered in the adiabatic case.
Theorem: If $\varphi(u_1, u_2)$ satisfies the equation

$$(1)\left[(\gamma-1)\varphi-\varphi_2^2\right](\varphi_{11}+1)+2\varphi_1\varphi_2\varphi_{12}+\left[(\gamma-1)\varphi-\varphi_1^2\right](\varphi_{22}+1) = 0$$

where γ is the exponent of the adiabatic curve, then the progressive wave depends on two arbitrary functions of one ar-

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