

4  
Artobelevskii, I. I., and Abramov, B. M. Concerning the  
motion of machines under the action of given forces. 21  
Izvestiya Akad. Nauk SSSR. Otd. Tehn. Nauk 1948,  
1309-1512 (1948). (Russian)

Dealing with systems of one degree of freedom, the authors, with the help of a well-chosen variable, have lengthened the derivation of the energy equation, and discovered one of the more obvious quadrature cases. Careful terminology assures the illusion that the paper pertains specifically to machines. A. W. Wundheiler.

Source: Mathematical Reviews.

Vol 10 No. 5

Sff

механизм и механизмов, no. 27, 5-27 (1949). (Russian)  
When exact consideration of friction is impractical, the common expedient is to assume that the normal reactions are the same as the smooth ones and apply the conventional laws of dry friction. The paper reviews this procedure for systems of one degree of freedom, and maps it out for a five-bar linkage as an example of two degrees of freedom. Lagrange equations are used after the generalized friction forces are determined. Some closer attention is given to the case of a two-bar three-hinge component of a linkage. No insights into the phenomena are given.

Source: Mathematical Reviews,

A. W. Wundheiler (Chicago, Ill).  
Vol 15 No. 4

*EWJ* *2/2*

Mathematical Reviews  
Vol. 15 No. 3  
March 1954  
Mechanics

✓  
Abramov, B. M. Dynamical investigation of mechanisms.  
Akad. Nauk SSSR. Trudy Sem. Teorii Mašin i Mechaniz-  
mov 10, no. 41, 36-42 (1951). (Russian)

*2*  
*(1) 2nd*  
*EH*

APPROV, P. P.

"Kineto-Statics of an Advancing Pair with Negligible Clearances," Trudy Ven  
teor mash., 12, No 45, 1951

1952 June 1952

ABRAMOV, B.M.

Motion of prismatic crosshead in a guiding spacial system of forces. Trudy  
Sem.teor.mash. 12 no.47:5-38 '52.

(MLH 6:6)

(Mechanical movement)

124-58 9-9554

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 1 (USSR)

AUTHOR: Abramov, B.M.

TITLE: Determination of the Dynamic Loads in Tooth Gears Having Straight-line Tooth Contours (Opredeleniye dinamicheskikh nagruzok v zubchatykh pryamozubykh kolesakh)

PERIODICAL: Tr. Khar'kovsk. avtomob. -dor. in-ta, 1957, Nr 19, pp 95-110

ABSTRACT: A correction  $(\sqrt{1+k^2} - 1)/R$  is introduced in A. I. Petusevich's formula for the determination of the impact force in the teeth of gears, which formula provides overrated values because it does not take into account the changes in the character of the deformation as a point of contact approaches the path of contact. An investigation is made of the dynamic loads with and without consideration of the effect of non-impacting pairs of teeth during edge impact and two instances of face impact, and with and without backlash. Expressions for the maximum force experienced during an edge impact are obtained in the form

(equation on card 2)

Card 1/2

124-58-9-9554

Determination of the Dynamic Loads in Tooth Gears (cont.)

$$U_{\max} = v_u \sqrt{mc} \frac{\sqrt{1+k^2} - 1}{k},$$

where

$$k = \frac{2\delta}{v_u} \sqrt{\frac{c}{m}},$$

$v_u$  is the velocity of impact,  $c$  is the rigidity,  $m$  is the reduced wheel mass,  $\delta$  is the deviation from nominal pitch of the gears, and during a face impact

$$U_{\max} = \sqrt{P^2 + 2\delta_1 c' P} + P$$

where  $P$  is the static load. A typographical error appears in the last formula, viz., the term  $P$  was omitted.

1. Gears--Stresses 2. Gears--Mathematical analysis

M. K. Kristi

Card 2/2

ABRAMOV, B.M.

25(2) PHASE I BOOK EXPLANATION SOV/2967  
Akademiya nauk SSSR, Institut mashinovedeniya. Seminar po teorii  
mashin i mekhanizmov

Trudy, tom XIX, v. 74 (Transactions of the Institute of Machine  
Science, Academy of Sciences, USSR, Seminar on the Theory of  
Machines and Mechanisms, Vol 19, No. 74) Moscow, Ind-ro  
AN SSSR, 1959. 66 p. Errata slip inserted. 2,500 copies  
printed.

Scientific Supervisor of the Seminar: I. I. Artobolevskiy,  
Academician; Ed. of Publishing House: G. B. Gorobov; Tech. Ed.:  
I. F. Koval'skiy; Editorial Board: I. Artobolevskiy,  
Academician (Resp. Ed.), G. B. Gorobov, Doctor of Technical  
Sciences, Professor; V. A. Gavrilchenko, Doctor of Technical  
Sciences, Professor; V. A. Zibor'yev, Doctor of Technical Sciences,  
Professor; A. Ye. Kobrinskiy, Doctor of Technical Sciences;  
K. I. Lavitskiy, Candidate of Technical Sciences, Professor;  
M. P. Rayevskiy, Candidate of Technical Sciences; L. F. Meshetov,  
Doctor of Technical Sciences, Professor; and M. A. Skuridin,  
Doctor of Technical Sciences, Professor.

Purpose: This book is intended for engineers interested in the  
theory of machines and mechanisms.

COVERAGE: The book consists of five scientific papers dealing  
with machines and mechanisms. The topics covered include  
dynamic principles of shockproof screens, electrical sim-  
ulation of dynamic loads acting in mine hoisting and  
dynamic loads in spur gears, an analytical method of designing  
cam profiles, and the analysis of forced vibrations in a  
system with a nonlinear restoring force. No personalities are  
mentioned. References follow several of the articles.

TABLE OF CONTENTS:

Preface	3
Anilovich, V. Ya. Dynamic Principles of Shockproof Screens On the basis of an analysis of the differential equation of motion for shockproof screens used in coal-dressing plants, the author presents a method for designing and internally balancing screening machines.	5
Lepikhin, B. D. Electrical Simulation of Dynamic Loads in Mine Hoisting Equipment The author presents results of electrical simulation of dynamic loads acting on elements of a single-drum hoist during the initial stage of lifting from both shallow and deep mine shafts.	14
Abneyev, B. M. Effect of Attached Masses on Dynamic Loads in Spur Gears The author discusses the problem of determining dynamic loads on gear teeth caused by errors in manufacture. He investigates the effect of a mass mounted on a gear shaft in the form of a disk on such loads. The results show that in a gear train with very rigid shafts the attached masses increase dynamic loads considerably. However, with the increase in gear mass the effect of attached mass is reduced.	25

PHASE I BOOK EXPLOITATION

SOV/5001

Abramov, Boris Meyerovich

Dinamika sharnirnykh mekhanizmov s uchetom treniya (Dynamics of Linked Machinery With Friction Calculation) Khar'kov, Izd-vo Khar'kovskogo univ., 1960. 148 p. 3,000 copies printed.

Resp. Ed.: D. I. Kostyuk, Docent; Ed.: M. I. Prokopenko; Tech. Ed.: N. I. Nikulina.

**PURPOSE:** This book is intended for technical personnel in machine building and instrument building, students at schools of higher technical education, students in divisions of physics and mathematics at universities, and for those interested in theoretical and applied mechanics.

**COVERAGE:** The author discusses the kinetic, static, and dynamic investigation of mechanisms with friction calculation in hinges and slideways. N. Ye. Zhukovskiy's concept of "friction circles", further elaborated by scientists V. V. Dobrovolskiy, M. A. Skuridin, G. A. Barsov and others, serves as the basis of the book. Special attention is given to a discussion of dynamic

Caró 1/4



Dynamics of Linked Machinery (Cont.)

SOV/5001

problems with more than one solution. Methods of determining true motion from possible motions are examined. It is stated that the book contains some original material. There are 59 references: 43 Soviet, 3 English, 7 German, 5 French, and 1 Italian. References accompany each chapter.

TABLE OF CONTENTS:

Introduction	3
Ch. I. Motion of a Solid Body Linked With Friction	10
Ch. II. Kinetics and Statics of Dyadic Mechanisms in a Plane System of Forces	39
1. Kinetics and statics of dyads without taking friction into account	39
2. Investigating air motion, taking into account friction in the guiding vanes	42

Card ~~2/4~~

ABRAMOV, B.M., kand.tekhn.nauk, dotsent

Effect of dynamic loads in spur gears on the "error in position"  
and the gear ratio. Izv.vys.ucheb.zav.; mashinostr. no.6:35-43  
'60. (MIRA 13:7)

1. Khar'kovskiy avtodorozhnyy institut.  
(Gearing, Spur)

ABRAMOV, B.M.

Vibration of gear transmissions caused by varying rigidity of meshing.  
Trudy Inst.mash. Sem. po teor.mash. 21 no.81/82:86-92 '60.  
(MIRA 13:11)

(Gearing--Vibration)

ABRAMOV, B.M., kand. tekhn. nauk, dotsent

Equilibrium of a solid supported by a rough surface. Izv.  
vys. ucheb. zav.; mashinostr. no.2:5-11 '64. (MIRA 17:5)

1. Khar'kovskiy avtodorozhnyy institut.

ABRAMOV, B.N.

Fluctuations of the concentration of oxygen and biogenous element  
in waters of the Central and Northern Caspian over a period of  
many years. Trudy VNIRO 38:117-133 '59. (MIRA 13:4)  
(Caspian Sea--Water--Composition)

ABRAMOV, B. P.

"Cleaning Timothy Seed with 'Zmeika' Separator," Sel i sem 19, No 5, 1952.

MIRA July 1952

ABRAMOV, B.B.

Using organomineral fertilizer mixtures for winter crops. Zemle iel'sa  
6 no.8:40-41 Ag '58. (MIRA 12:11)  
(Grain--Fertilizers and manures)

SHIFRIN, I.A.; ABRAMOV, B.S.; METSKAN, T.I.

Outbreak of anicteric leptospirosis in the Termez District. Med. zhur.  
Uzb. no.6:52-53 Je '60. (MIRA 15:2)  
(TERMEZ DISTRICT...LEPTOSPIROSIS)



ABRAMOV, B. S.

USSR/Engineering-Hydroelectric Station

Card 1/1

Author : Abramov, E. S., engineer

Title : State electric-power station on the Kama

Periodical : Nauka i Zhizn' 21/4, 9-11, April 1954

Abstract : The electric-power station near the City of Molotov on the Kama, is one of the biggest built during the fifth five-year plan. The topographical features were very favorable, cheapening the construction work immensely. The dam raises the height of the water by 20 meters and this effects the level 330 kilometers up stream. The lake covers an area of 200,000 hectares. The author gives details about the kind and amount of material used and the provisions for locks but omits the electrical data. Photographs.

Institution : ....

Submitted : ....

*А.А. и м.а. В. С.*

ABIRAMOV, B.S., inshener; KHUKHLAYEV, G.A., inshener.

Novosibirsk Hydroelectric Power Station. Nauka i shisa' 21 no.11:  
4-6 N '54. (MLRA 7:12)

(Novosibirsk Hydroelectric Power Station)

АБРАМОВ, Б. Д.  
ABRAMOV, B., inzhener.

The construction of great hydraulic engineering works. Stroitel'  
no.10:12-15 0 '57. (MIRA 10:11)

(Hydroelectric power stations)

PHASE I BOOK EXPLOITATION 946

Abramov, Boris Savel'yevich

Golubyye kaskady (Blue Cascades) Moscow, Gospolitizdat, 1958. 54 p.  
75,000 copies printed.

Ed.: Orlov, V.; Tech. Ed.: Mukhin, Yu.

PURPOSE: This booklet is intended for the general reader desiring general information about the state of development of hydroelectric power in the USSR.

COVERAGE: The author briefly reviews the geography of the USSR, putting emphasis on the water power resources of the Russian land mass. The high points of Lenin's plan for electrification of the country are given, and the successes in hydroelectric power plant engineering and construction in the USSR are described. The future of hydroelectric power development in the Soviet Union is also mentioned. No personalities are mentioned. There are no references.

Card 1/3

Blue Cascades	946
The future of the Amur River	42
A unified power system for the USSR	48
New technological advances	51
Hydroelectric power in the service of the national economy	54
AVAILABLE: Library of Congress	

Card 3/3

JP/nah  
12-9-58

ABRAMOV, Boris Savel'yevich; KOLOSOV, A., red.; CHEPELEVA, O., tekhn.red.

[Power engineering of the seven-year plan] Energetika semilet'ni.  
Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1959. 63 p. (MIRA 1:12)  
(Power engineering)

ABRAMOV, B.S., inzh.

Construction of the Votkinsk Hydroelectric Power Station. Gidr.  
stroi. 32 no.1:41 Ja '62. (MIRA 15:3)  
(Votkinsk Hydroelectric Power Station)

AHRAMOV, B.S.

Hidden sources of life. Priroda 52 no.7:25-31 J1 '63.

(MIRA 16:8)

(Water supply) (Water resources development)



ABRAMOV, B.S.

Stratigraphy of the isolated carboniferous section of the  
southern Verkhoyansk Range. Uch. zap. NIIG no. 10-25 '64.  
(MIRA 17:7)

ABRAMOV, B. V.

[Receiver and amplifier tubes; reference pamphlet] Priemno-usilitel'nye  
lampy; spravochnye svedeniia. Moskva, Gos.energ.izd-vc, 1952. 23 p.

(REFRA 6:7)

(Vacuum tubes)

АБРАМОВ Б. В.

[Tubes for radio and television receivers] Lampy dlia radio-  
veshchatel'nykh i televisionnykh priemnikov. Moskva, Gosenergeiz-  
dat, 1954. 79 p. (MIRA 8:1D)

AUTHOR  
TITLEABRAMOV, B.V., TIKHONOV, V.I.,  
Experimental Investigation of the Audio-Frequency Static of Tubes  
and Semiconductor Triodes.(Eksperimental'noye issledovaniye nizkochastotnykh shumov lamp i  
poluprovodnikovyykh triodov - Russian)

PERIODICAL

Radiotekhnika, 1957, Vol 12, Nr 6, pp 45-51. (U.S.S.R.)

ABSTRACT

The level measurements of static noise were carried out according to the method of the comparison between the static noise of radio tubes and that of the effective resistance at normal room temperature. A spectral analyzer with 27 exchangeable filters in the frequency range of  $300 + 15\text{KC}$  was used for the determination of spectral density of static at various frequencies. The relative transmission range of the filter  $\frac{1}{4}$  is constant and equal to 0.2. The spectral intensity of the static of the tube investigated can be assumed as being approximately constant within the boundaries of the transmission range of the single filters. A valve voltmeter LV-9 was used as initial indicator; its indications are dependent on the level of the static and therefore make it possible to fix this level. The basic amplifier has an amplification coefficient of about  $2 \cdot 10^6$  and a transmission range of from 50-20,000C. It consists of four cascades. A description of the method of operation follows. Investigated were: audio-frequency spectra of the fluctuating static of the 6Zh4 and 6Zh1P tubes in the case of pentode- and triode switching as well

Card 1/2

Experimental Investigation of the Audio-Frequency Static of Tubes  
and Semiconductor Triodes.

as spectra of the static of two semiconductor plane triodes P1A. The  
results are shown in 3 tables. The errors of measurement were about  
15%, in the case of the lowest frequencies up to 30%.  
(With 3 tables, 3 illustrations and 1 Slavic reference)

ASSOCIATION  
PRESENTED BY  
SUBMITTED 16.5.1956  
AVAILABLE Library of Congress  
Card 2/2

ARMY, Dzh.

Nekotoryye Itogi raboty MTS Moskovskoy oblasti Sots. Sel. Khoz-vo, 1949, № 8, в. 35-3F

SO: LETOPIS' NO. 35, 1949

ABRAMOV, Dzh.

Problems of increased replacement of production factors on  
collective farms. Vop.ekon.no.6:74-84 Je '57. (MLRA 10:7)  
(Moscow Province--Collective farms)  
(Agriculture--Economic aspects)

ABRAMOV, D. A. Cand Tech Sci -- "Study of certain parameters of single-span  
overhead-~~skidding~~ <sup>dragging</sup> <sup>installation</sup> ~~plants~~ <sup>the dragging of timber</sup> in ~~wood~~ ~~skidding~~ under ~~mountain~~ conditions of mountain."

Len, 1961 (Min of Higher and Secondary Specialized Education RSFSR. Len  
Order of Lenin Forestry Engineering Acad in S. M. Kirov). (KL, 4-61, 191)

-156-



RESHETOV, Aleksandr Vasil'yevich; ABRAMOV, D.A., redaktor; AGRANOVSKAYA,  
N.D., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor.

[Loading lumber in Siberian lumbering enterprises] Pogrushka lesa na  
lesozagotovitel'nykh predpriyatiyakh Sibiri. Moskva, Geosbunzdat,  
1955. 45 p. (MLA 9:6)  
(Lumbering) (Loading and unloading)

BELOZERTSEV, Vasilii Yefimovich, kandidat tekhnicheskikh nauk; BREDELIN, Nikolay Vasil'yevich; ABRAMOV, D.A., redaktor; SHAKHOVA, L.I., redaktor izdatel'stva; SHIS, V.I., tekhnicheskii redaktor

[Reducing labor loss in preparatory and auxiliary operations in lumber enterprises] Snizhenie trudovykh zatrat na podgotovitel'nykh i vspomogatel'nykh rabotakh v lespromkhozakh. Moskva, Goslesbumizdat, 1956. 28 p. (MLRA 9:12)  
(Lumbering)

ABRAMOV, D. A. starshiy nauchnyy sotrudnik

Aerial skidder. Tekh.mol. 28 no.10:24 '60.

(MIRA 1:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki promyshlennosti.

(Lumber--Transportation)

(Cableways)

VORONITSYN, K.I., kand. tekhn. nauk, red.; TIZENGAUZEN, P.E., kand. tekhn. nauk, red.; NADBAKH, M.P., red.; TANTSEV, A.A., starshiy nauchnyy sotr., red.; ABRAMOV, S.A., kand. tekhn. nauk, red.; ABRAMOV, D.A., red.; BOGDANOV, N.I., starshiy nauchnyy sotr., red.; VINOGOROV, G.K., kand. tekhn. nauk, red.; GAVRILOV, I.I., starshiy nauchnyy sotr., red.; GUSARCHUK, D.M., starshiy nauchnyy sotr., red.; D'YAKONOV, A.I., red.; ZAV'YALOV, M.A., kand. tekhn. nauk, red.; ZARETSKIY, M.S., starshiy nauchnyy sotr., red.; KACHELKIN, L.I., starshiy nauchnyy sotr., red.; KISHINSKIY, M.I., kand. tekhn. nauk, red.; KOLTUNOV, B.Ya., starshiy nauchnyy sotr., red.; OSIPOV, A.I., kand. tekhn. nauk, red.; SHINEV, I.S., kand. ekon. nauk, red.

[Materials of the enlarged session of the Scientific Council of the Central Scientific Research Institute for Mechanization and Power Engineering in Lumbering on problems concerning power engineering and the electrification of the lumber industry]  
Materialy rasshirennoi sessii Uchenogo soveta TsNIIME po voprosu energetiki i elektrifikatsii lesnoi promyshlennosti. Moskva, 1961. 75 p.

(MIRA 15:4)

~~(Continued on next card)~~

ABRAMOV, D. I.

"Rationalizing the Preparation of Cahors Wine," *Win. USSR* 12, No 7, 195:

MIRA Oct 1952



*Abramov, D.M.*  
137-58-3 5584

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 157 (USSR)

AUTHOR: Abramov, D. M.

TITLE: Various Factors Affecting the Rate of Corrosion of Steel Periodically Exposed to Sea Water (Vliyaniye razlichnykh faktorov na skorost' korrozii stali morskoy vody pri periodicheskom smachivanii)

PERIODICAL: Izv. AN AzerbSSR, 1957, Nr 8, pp 31-40

ABSTRACT: Investigations, performed in order to establish how the rate of corrosion (RC) of steel periodically exposed to sea water is affected by various salts contained in Caspian Sea water, have shown that chlorides (NaCl, MgCl<sub>2</sub>) are the most active salts. Sulfates (MgSO<sub>4</sub>, Ca SO<sub>4</sub>) exert a retarding action on the RC of steel when added to solutions containing chlorides. The RC in artificial and natural sea water is lower than it is in solutions with identical concentrations of chlorides. Maximal RC is observed when the chloride concentration is 70 g/liter, whereas greatest increase of the RC occurs in the range of concentrations between 5 g/liter and 10 g/liter, i. e., at concentrations identical to those encountered in sea water. The RC increases considerably

Card 1/2

137-58-3-5584

Various Factors Affecting the Rate of Corrosion, etc. (cont.)

when the frequency of periodic immersions is increased. However, very frequent immersions (every 1-3 minutes) no longer affect the RC; this is explained by the fact that a film of moisture is permanently present on the surface of the steel and prevents the latter from drying out. A reduced RC, after some time has elapsed in the course of testing, is attributable not to any protective action of the corrosion products but to the impaired diffusion of  $O_2$  through these products. At increased temperatures the RC increases considerably, owing to the increased diffusive and convective flow of  $O_2$ .  
W. A.

Card 2/2



ABRAMOV, D.M., Cand Chem Sci -- (diss) "Study of the  
electrochemical process of corrosion <sup>during</sup> ~~in the case of~~  
periodic ~~weaving~~ with water." Baku, Pub House of Acad Sci  
AzSSR, 1958, 19 pp (Min of Higher Education USSR, Azerbaydzhan  
State Univ im S.M. Kirov) 150 copies (KL, 42-58, 113)

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 179 (USSR) SOV/137-58-11-23082

AUTHORS: Negreyev, V. F., Abramov, D. M.

TITLE: On the Electrode Processes in a Zone of Intermittent Wetting (O mekhanizme elektrodnykh protsessov v zone periodicheskogo smachivaniya)

PERIODICAL: Izv. AN AzerbSSR. Ser. fiz. -tekhn. i khim. n. , 1958, Nr 1, pp 97-106

ABSTRACT: By plotting polarization curves a study was made of the kinetics of electrode processes on steel covered with thin films of Caspian sea water and fresh ("Shollar") water, and with films of NaCl,  $MgCl_2$ ,  $MgSO_4$ , and  $CaSO_4$  solutions. The effect that corrosion products have on the intensification of the corrosion of steel during intermittent wetting was also studied. The investigation was performed in an airtight apparatus in which the relative humidity was kept at 98%. It is indicated that with a decrease in the thickness of the film from 500 to 100  $\mu$  the cathodic polarization of steel decreases as a result of an intensive supply of  $O_2$  to the corroding surface. The rates of the cathodic processes under thin films of

Card 1/2

SOV/137-68-11-23082

On the Electrode Processes in a Zone of Intermittent Wetting

sea water and fresh water are practically equal. The anodic polarization of steel increases with the decrease of the thickness of the solution film. A greater retardation of the anodic process is observed under a film of fresh water. It is indicated that under thin films of salt solutions the kinetics of the electrode processes change. The presence of  $MgSO_4$  (film thickness  $500 \mu$ ) retards somewhat the cathodic process of the corrosion of steel, the  $Cl^-$  ion decreases the anodic polarization, and  $CaSO_4$  and  $MgSO_4$  greatly inhibit the anodic process. By means of a seven-month investigation of corrosion currents in Fe-Cu macrocells suspended at 0.5, 1, 2, and 4 meters above sea level it was shown that under any weather conditions the current intensity in the macrocells decreases with increasing height above the surface of the sea. It was detected that a constantly active factor determining the intense corrosion of steel in the wetting zone is the presence of a porous layer of corrosion products (of the  $Fe_2O_3 \cdot nH_2O$  type) which are strong depolarizers of the cathodic process. Bibliography: 14 references.

P. S.

Card 2/2

MEGREYEV, V.F.; ABRAMOV, D.M.; SHANINA, T.M.

Corrosion and anticorrosion protection of offshore pilings.  
Izv.vys.ucheb.zav.; neft' i gaz 1 no.12:125-129 '58.

(MIRA 12:4)

1. Azerbaydzhanskiy industrial'nyy institut im. M.Azizbekova,  
Institut khimii AN AzerSSR i Gosudarstvennyy nauchno-issledovatel'-  
skiy i proyektnyy institut morskoy nefti.  
(Corrosion and anticorrosives) (Piling (Civil engineering))

MAMEDOV, I.A.; ABRANOV, D.M.

Mechanism of the electrochemical corrosion of steel as dependent on different size of soil particles. Azerb. khim. zhur. no.4:83-86 '59. (MIRA 14:9)  
(Steel--Corrosion) (Soil particles)

MAMEDOV, I.A.; ABRAMOV, D.M.

Effect of cathode deposits in the soil on the process of cathodic  
polarization. Dokl. AN Azorb. SSR 5 no.5:379-382 '59.

(MIRA 12:8)

1. Institut khimii Akademii nauk AzerSSR.  
(Electrolytic corrosion)

HEGREYEV, V.F.; ABRAMOV, D.M.

Composition of corrosion products of steel resulting from  
periodic wetting by sea water. Dokl. AN Azerb. SSR 15 no. 12:  
1119-1121 '59. (MIRA 13:4)

I. Institut khimii AN AzerSSR. Predstavleno akademikom AN.  
AzerSSR M.F. Nagiyevym.  
(Steel--Corrosion)

MAMEDOV, I.A.; ABRAMOV, D.M.

Effect of the temperature conditions of soils on steel corrosion.  
Report No. 1. Azerb.khim.zhur. no.1:53-59 '60. (MIRA 14:9)  
(Soil temperature) (Steel--Corrosion)



MAMEDOV, I.A.; ABRAMOV, D.M.

Effect of soil salinity on steel corrosion. Trudy Inst.khim. AN  
Azerb.SSR 18:67-78 '60. (MIRA 14:9)  
(Steel--Corrosion) (Soil chemistry)

38781

S/081/62/000/010/051/085  
B168/B180

18.830

AUTHORS:

Negreyev, V. F., Mamadov, I. A., Abramov, D. M.

TITLE:

A study of the mechanism of the anticorrosive effect of sodium hexametaphosphate in aqueous media

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 10, 1962, 366, abstract 101265 (Azerb. khim. zh., no. 5, 1961, 105-111)

TEXT: Investigation of the corrosion-inhibiting mechanism of sodium hexametaphosphate (I) in cooling water of various compositions showed that it varies according to circumstances. It was found that in fresh water containing no  $\text{Ca}^{2+}$  or  $\text{Cl}^-$  ions I is an anodic corrosion inhibitor (at a concentration of 200 mg/l). In the presence of  $\text{Ca}(\text{HCO}_3)_2$  there is cathodic as well as anodic corrosion inhibition. If there is any appreciable concentration of  $\text{Cl}^-$  (NaCl) no anodic inhibition occurs. It was found that in fresh water a phosphate film gradually forms on the surface of steel, causing anodic polarization. With water containing 200 mg/l I, polarization sets in 24 hours after treatment of the steel. X  
Card 1/2

A study of the...

S/081/62/000/010/051/085  
B168/B180

When a mixture of chromate and I is used as corrosion inhibitor in fresh waters, besides the active anodic inhibition characteristic of both the above-mentioned agents there is cathodic inhibition, which does not occur when each of these agents is used separately in the same concentrations. Thus, in a solution of NaCl (8.11 g/l) the use of a solution of I and chromate, at a rate of 200 mg/l each, causes active cathodic inhibition. [Abstracter's note: Complete translation.]

X

Card 2/2

PC-4/Pr-4/Ps-4/Pt-10 BSD/AFWL/ASD(a)-5/ASD(m)-3/ASD(p)-3 JD/WW/WB/

SI SR. AR698153

SOURCE: K 17 017

SOURCE: Ref. zh. Khimiya Abs. 11K115

AUTHOR: Negreyev, V.F., Abramov, D.M., Agayev, N.M.

E

TITLE: Effectiveness of the inhibitor katapin A in a system containing hydrocarbons and an aqueous solution

CITED SOURCE: Gaz delo. Nauchno-tekhn. sb., no. 9, 1963, 28-31

TOPIC TAGS: steel, steel corrosion, corrosion inhibitor, hydrocarbon, salt water, petroleum refining, electrochemistry, quaternary ammonium salt, polarizing current, protective film/katapin A

TRANSLATION: Katapin A (a quaternary ammonium chloride salt) was studied for possible use as a corrosion inhibitor in the petroleum-refining industry. The effectiveness and character of the formation of protective films were studied during the use of this corrosion inhibitor in a mixture of an aqueous NaCl solution and kerosene with or without the presence of H<sub>2</sub>S. Since the corrosion of steel in a system consisting of hydrocarbons and an aqueous solution is an electrochemical process, it was studied by electrical methods. The study of the effectiveness of inhibitors on the basis of the density of the polarizing

1/2



ABRAMOV, D.M.; ZEYNALOV, S.D ; AGAYEV, N.M.

Electrochemical method for determining the efficiency of corrosion inhibitors for steel in the production of gas-condensate wells. Gaz. delo no.1:22-25 '65.

(MIRA 18:6)

1. Institut khimii AN AzSSR.

L 6400-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACC NR: AP5025720

SOURCE CODE: UR/0286/65/000/018/0074/0074

INVENTOR: Sandler, R. A.; Yelin, N. M.; Podzorov, B. N.; Abramov, D. S.

44,55 44,55 44,55 47,55

44  
23

ORG: none

TITLE: A method of producing titanium-aluminum alloys. Class 40, No. 174792

44,55 27 44,55, 2 18

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 74

TOPIC TAGS: alloy, titanium alloy, aluminum containing alloy

ABSTRACT: This Author Certificate introduces a method of obtaining titanium-aluminum alloys with 15-27% aluminum by reduction of titanium tetrachloride with magnesium. To simplify the process and reduce its cost, the titanium tetrachloride is first reduced with metallic aluminum in the presence of solid sodium chloride and then reduced with metallic magnesium or sodium. [ND]

SUB CODE: MM, IE/ SUBM DATE: 22May64/ ATD PRESS: 4140

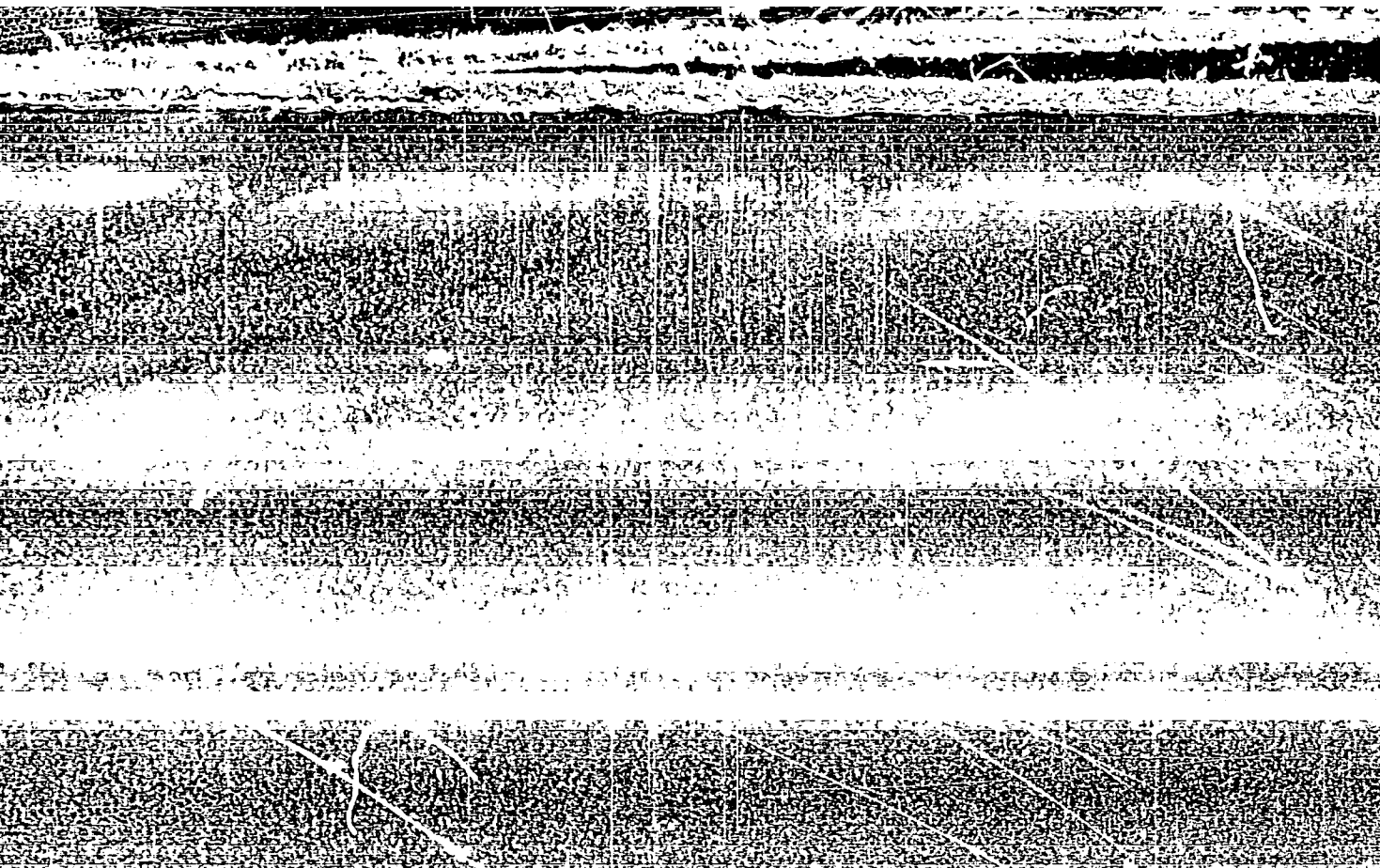
62  
Card 1/1

UDC: 669.295.018.5

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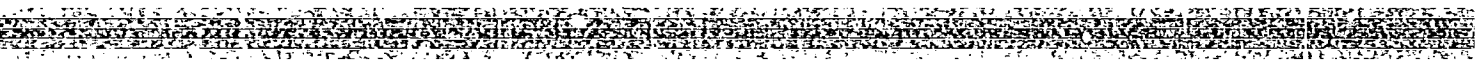
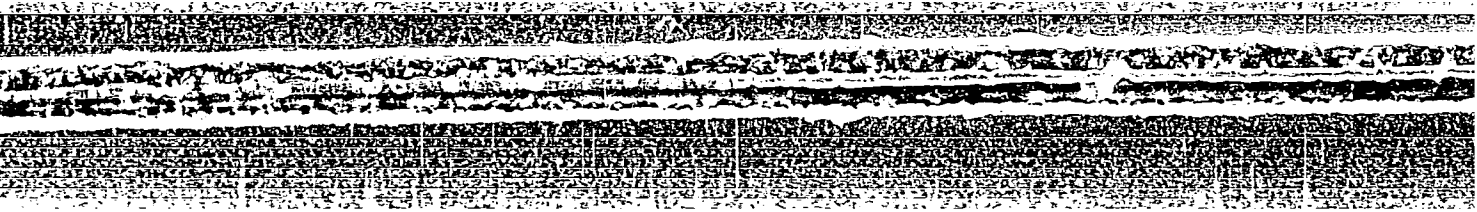
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ABRAMOV, E.A., kand.istor.nauk; KRUGLYKOV, F.V., kand.istor.nauk;  
ROZENSHTAYN, A.L., kand.istor.nauk; VASIL'YEV, A.V., nauchnyy  
red.; VOROB'YEV, G.S., red.izd-va; GURDZHIYVA, A.M., tekhn.  
red.

[Brigades of communist labor] Brigady kommunisticheskogo  
truda. Leningrad, Ob-vo po rasprostraneniu polit. i nauchnykh  
znanii RSPSR, Leningr.otd-nie, 1959. 46 p. (MIRA 13:2)  
(Socialist competition) (Efficiency, Industrial)

ACC NR: AP6025930

SOURCE CODE: UR/0301/66/012/004/0435/0437

AUTHOR: Surinov, B. P.; Manoylov, S. Ye.; Abramov, E. F.

ORG: Leningrad Chemical-Pharmaceutical Institute, Chair of Biochemistry (Kafedra biokhimii Leningradskogo khimiko-farmatsevticheskogo instituta)

TITLE: The use of ion exchange resins for the desalination of proteolytic enzymes

SOURCE: Voprosy meditsinskoj khimii, v. 12, no. 4, 1966, 435-437

TOPIC TAGS: trypsin, proteolytic enzyme, ion exchange resin, enzyme desalination

ABSTRACT: A method for desalinating solutions of proteolytic enzymes (trypsin, chymo trypsin) with ion-exchange resins is described. Various anion and cation exchange resins are used [EDE-10, AN-2FG, SBS-1, KU-5, and KU-2 with 4.8-12% divinylbenzene]. The most favorable combination seemed to be anion exchange resin EDE-10P and cation exchange resin KU-2 with 8% divinylbenzene. These have sufficient stability and are produced commercially. Experiments showed dynamic conditions of demineralization to be the most favorable. An increased release of resins was observed under static conditions. Conclusions were that KU-2 with 8% divinylbenzene sorbs trypsin or chemical trypsin poorly. Anionite EDE-10 has the capacity to absorb some amount of proteins which can be washed away. The loss of protein enzymes by desalinating performed only in resins is 20%. In such a way, ion-exchange of resins can be used successfully for de-salting compounds of proteolytic

Card 1/2

UDC: 615.779.94:577.156-012:661.183.123

ACC NR: APAP6025930

enzymes. This method which is particularly important during purification enzymes, avoids long process of dialysis.

SUB CODE: 0690/SUBM DATE: 09Jan65/ ORIG REF: 002/ OTH REF: 003

Card 2/2

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"Monopoly profit," Monopolies by G.S. Roginskii. Reviewed by  
F. Abramov, V. Krutov. Vnesh. torg. 42 no.8:46-49 '62.

(MIRA 15:9)

(Profit)

ABRAMOV, F.

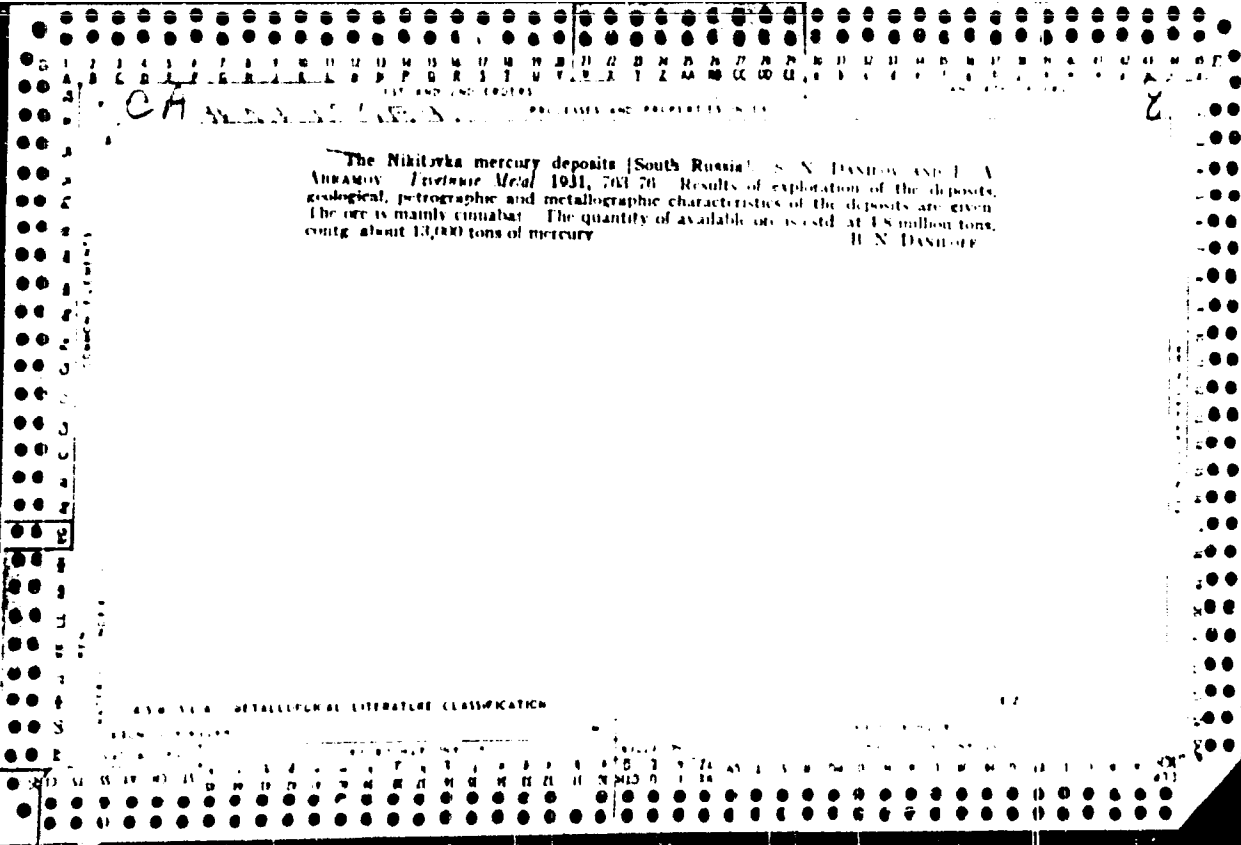
Pseudo-scientific studies of bourgeois economists. Vnesh. torg.  
43 no.10:13-17 '63. (MIRA 16:11)

ABRAMOV, F.

"Utilization of the Productive Forces in the Cotton Gins," Kizlopkhovods vo  
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MIA Aug 1952





ABRAMOV, F.

USSR

On: Underground Stations for gasification of coal

Soviet Source: N: Moscow 18 April 1945 Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 26270.

Almerov, E. A.

Almerov, E. A. - "Aerodynamic resistance of mining excavators," Izv. Vys. Shk. SSSR, Ser. Tekhn. Nauki, Vol. XIX, 1968, p. 119-33 - Bibliog.: 5 items

SO: U-3-00, 10 July 68, (Letopis, Zhurnal Vuzovskogo, U. S. S. R., 1968).

ABRAMOV, F. A.

ABRAMOV, F. A. And Miletich, A. F. "Calculating the aerodynamic resistance of air bridges and channels toward fans", (In coal mines), Izvestiya Inzhener. gornogoin-ta im. Artema, Vol. XX, 1948, p. 62-82.

SO: U-4631, 16 Sept. 1953, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949)

ABRAMOV, F. A., DOCENT

PA 40/49T77

USSR/Mining  
Ventilating Systems  
Braces

Jan 49

"Determining the Ventilation Coefficients of  
Aerodynamic Resistance of New-Type Mine Brackets,"  
Docent F. A. Abramov, A. F. Miletich, Dnepro-  
petrovsk Mining Inst, 2 pp

"Gor Zaur" No 1

Experimental research on aerodynamic resistance  
for various types of mine reinforcements suggests  
that in metal reinforcing of tunnels with arches

40/49T77

USSR/Mining (Contd)

Jan 49

or pillars, the gaps between them should be  
filled in with the beams or concrete slabs.  
This lowers the ventilation resistance three  
times compared with wood roof-supports, etc.

40/49T77

ABRAMOV, F. A.

PA 152T15

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USSR/Engineering - Instruments  
Gauge, Roughness

Sep 49

"Mechanical Profilo-Graph (Surface Roughness Gauge),"  
F. A. Abramov, A. F. Miletich, Dnepropetrovsk Mining  
Inst, 1 1/4 pp

"Zavod Lab" Vol XV, No 9

Describes mechanical apparatus which can be used under  
limited light conditions of mine shafts in place of  
optical type. Includes diagram of parts, and photo-  
graph of apparatus.

152T15

1. ABRAMOV, F. A.
2. USSR (600)
4. Mine Ventilation
7. Determining the resistance to ventilation of circular, concrete-lined mine shafts. Ugol' No 1 1953.

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<u>Name</u>	<u>Title of Work</u>	<u>Submitted by</u>
Abramov, T.A.	"Determination of the Ventilation Resistance of Curved Concrete Mine Shafts"	Dnepropetrovsk Mining Institute imeni Artem

SO: W-30604, 7 July 1954



ABRAMOV, F. A.

205. ESTABLISHING THE VENTILATION RESISTANCE OF HINE WORKINGS WITH  
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steel arch supports, confirmation of a formula proposed by A. I. Eschenfater,  
and recommendations for diminishing resistance. (L).

ABRAMOV, Fodor Aleksandravich; FROLOV, Nikolay Afanas'yevich; GRISHAYENKO,  
M.I., otvetstvennyy redaktor; BEKKER, O.G., tekhnicheskii redaktor;  
ALADOVA, Ye.I., tekhnicheskii redaktor

[Electric model of mine ventilation networks] Elektricheskoe  
modelirovanie ventilatsionnykh setei ugol'nykh shakht. [Moskva]  
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(Mine ventilation--Electromechanical analogies)

ABRAMOV, F.A.; DUGANOV, G.V.; ROMENSKIY, L.P.

New instrument used for depression surveying. Bezop.truda v prom.  
l no.7:25-27 J1 '57. (MIRA 10:7)

1. Dnepropetrovskiy gornyy 'institut im. Artema.  
(Mine surveying)

ABRAMOV, F.A., prof., doktor tekhn. nauk; DOLINSKIY, V.A.

Aerodynamic resistance workings lined with sectional reinforced  
concrete supports. Kr. vyr. ugol'. shakht no. 1:73-75 '57.  
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1. Dnepropetrovskiy gornyy insti'tut.  
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(Aerodynamics)

ABRAMOV, F.A., professor, doktor tekhnicheskikh nauk.; PODOL'SKIY, V.A., inzhener.;  
FROLOV, N.A., inzhener.

New method of calculating complex diagonal connections. Gor. zhur.  
no.2:40-44 F '57. (MIRA 10:4)

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(Mine ventilation)

ABRAMOV, F.A., professor, doktor tekhnicheskikh nauk; FROLOV, N.A.,  
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Electric automatic device for the design (modelling) of mine  
ventilation systems. Ugol' 32 no.5:28-31 My '57. (MLRA 10:5)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy  
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(Mine ventilation) (Electromechanical analogies)

ABRAMOV, F.A., prof., doktor tekhn. nauk; BOYKO, V.A., gornyy inzh.

Method of electric modeling of mine ventilation with use of  
semiconductor device. Ugol' Ukr. 2 no.2:16-20 F '58.  
(MIRA 13:3)

1. Dnepropetrovskiy gornyy institut.  
(Mine ventilation--Electromechanical analogies)

ABRAMOV, F.A., prof., doktor tekhn,nauk; BOYKO, V.A., gorn.inzh.

Electric modeling of mine ventilation systems with semiconductor  
elements. Izv. DGI 31:5-13 '58. (MIRA 11:7)  
(Mine ventilation) (Electromechanical analogies) (Semiconductors)



ABRAMOV, F.A., doktor tekhn.nauk, prof.; DUGANOV, G.V., kand.tekhn.nauk,  
dotsent; MILETICH, A.F.; ROMENSKIY, L.P., kand.tekhn.nauk

Investigating aerodynamic resistance of mine shafts with various  
types of new supports using streamlined girders. Izv. DGI 31:23-40  
'58. (MIRA 11:7)

(Aerodynamics) (Mine ventilation)

ABRAMOV, F.A., prof.; TUPITSYN, G.M., dotsent; RIPP, M.G.; MILETICH, A.F.

DGI axial, compressed-air driven fans. Izv. DGI 31:125-130 '58.  
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(Fans, Mechanical--Pneumatic driving)

ABRAMOV, F.A., prof., doktor tekhn.nauk; DOLINSKIY, V.A., gornyy inzh.

Aerodynamic resistance of mine shafts lined with reinforced  
concrete tubings. Ugol' Ukr. 3 no.4:16-19 Ap '59.

(MIRA 12:7)

(Shaft sinking) (Aerodynamics)

ABRAMOV, F.A., doktor tekhn. nauk; MILETICH, A.F., kand. tekhn. nauk;  
YAROVY, I.M., kand. tekhn. nauk

Improving the aerodynamic characteristics of fan channels. Ugol' Ukr.  
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1.Dnepropetrovskiy gornyy institut.  
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ABRANOV, Fedor Alekseyevich; MILETICH, Anton Fedorovich. Primali ucha-  
stiye: DUGANOV, G.V.; RIPP, M.G.; BOYKO, V.A.; VORONINA, L.D.,  
otv.red.; GRISHAYENKO, M.I., red.izd-va; GALANOVA, V.V., tekhn.red.

[Apparatus for controlling mine ventilation] Pribory dlia kontrolya  
ventiliatsii shakht. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po  
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(Mine ventilation—Equipment and supplies)

KEFER, Vladimir Nikolayevich. Primal uchastiye PONIZKO, T.A., inzh.,  
ABRAMOV, F.A., prof., doktor tekhn.nauk, retsenzent; DUGANOV,  
G.V., dotsent, kand.tekhn.nauk, retsenzent; USHAKOV, K.Z.,  
otv.red.; OKHRIMENKO, V.A., red.izd-va; IL'INSKAYA, G.M.,  
tekhn.red.

[Mine air cooling systems] Shakhtnye vozdukhokhladitel'nye  
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1. Zaveduyushchiy Kafedroy Rudnichnoy ventilyatsii i tekhniki  
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ABRAMOV, F.A., prof.; BOYKO, V.A., kand.tekhn.nauk

Research on heat transfer under mine conditions using the  
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ABRAMOV, F.A., prof., doktor tekhn.nauk; CHLOBLIN, D.N., prof., doktor tekhn.nauk

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ABRAMOV, F.A., professor, doktor tekhn.nauk; MAKSIMOV, A.P., dotsent,  
kand.tekhn.nauk; DOLINSKIY, V.A., gornyy inzh.

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(Shaft sinking) (Reinforced concrete)

ABRAMOV, Fedor Alekseyevich; BOYKO, Vladimir Aleksandrovich; FROLOV, Nikolay Afanasyevich; BAGRINOVSKIY, A.D., otv. red.; GRISHAYENKO, M.I., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.

[Model mine ventilation networks] Modelirovanie ventilatsionnykh setei shakht. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 219 p. (MIRA 14:5)  
(Mine ventilation--Electromechanical analogies)

ABRAMOV, F.A., doktor tekhn.nauk; BOYKO, V.A., kand.tekhn.nauk

Automatic regulation of air pressure in mines. Ugol' Ukr. 5 no.5:  
6-9 My '61. (MIRA 14:5)

1. Dnepropetrovskiy gornyy institut.  
(Mine ventilation)

.ABRAMOV, F. A., prof.; BERENSHTEYN, S. I., kand. tekhn. nauk; VOLIK, B. G., mladshiy nauchnyy sotrudnik

Pneumatic apparatus for automatically maintaining constant pressure in underground mines. Izv. vys. ucheb. zav.; gor. zhur. no.10:149-153 '61. (MIRA 15:10)

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(Mining engineering—Equipment and supplies)  
(Atmospheric pressure)

ABRAMOV, F.A., doktor tekhn.nauk, prof.; STREYMANN, V.E., inzh.; MAKUSHIN,  
V.N., inzh.-konstruktor  
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1. Dnepropetrovskiy gornyy institut (for Abramov, Streymann).
2. Moskovskiy zavod "Gidrometpribor" (for Makushin).  
(Mine ventilation) (Barometers)

ABRAMOV, F.A., prof., doktor tekhn.nauk; MOSIN, I.M., gornyy inzh.;  
KREMEV, O.A., prof., doktor tekhn.nauk

Control of mine ventilation in case of fire. Ugol' Ukr. 6  
no.2:41-42 F '62. (MIRA 15:2)

1. Dnepropetrovskiy gornyy institut (for Abramov, Mosin).
2. Institut teploenergetiki AN USSR (for Kremlev).  
(Mine ventilation)  
(Mine fires)

ABRAMOV, F.A., prof., doktor tekhn.nauk; DOLINSKIY, V.A., gornyy inzh.

Aerodynamic resistance of workings equipped with conveying units. Ugol' 37 no.1:52-55 Ja '62. (MIRA 15:2)

1. Dnepropetrovskiy gornyy institut im. Artema.  
(Mine ventilation)



ABRAMOV, F.A., prof.; PIGIDA, G.L., inzh.

Design of ventilation systems with auxiliary fans. Izv. vys. ucheb. zav.; gor. zhur. 5 no.10:71-78 '62. (MIRA 15:11)

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ABRAMOV, F.A., prof.; DUGANOV, G.V., dotsent; KUKHAREV, V.N., inzh.;  
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Trust occurring in the transfer of mining to deep levels.  
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1. Dnepropetrovskiy gornyy institut.  
(Donets Basin--Mine ventilation)

ABRAMOV, F.A. (Dnepropetrovsk); BOYKO, V.A. (Dnepropetrovsk); BULAKH,  
G.I. (Dnepropetrovsk)

Using rapid electronic computers for calculations of mine  
ventilation. Izv. AN SSSR. Otd. tekhn. nauk. Met. i gor. delo  
no.2:161-168 Mr-Ap '63. (MIRA 16:10)

ABRAMOV, F.A., prof.; BOYKO, V.A., kand. tekhn. nauk; GRETSINGER, B.Ye.,  
kand. tekhn. nauk; SHEVELEV, G.A., inzh.

Physical nature of transient gas-dynamic processes in controlling  
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