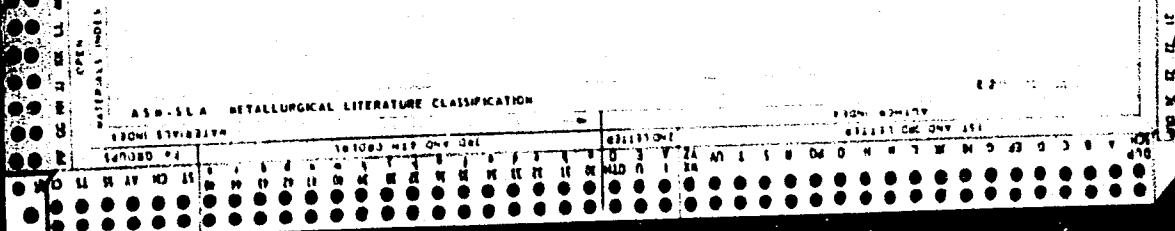
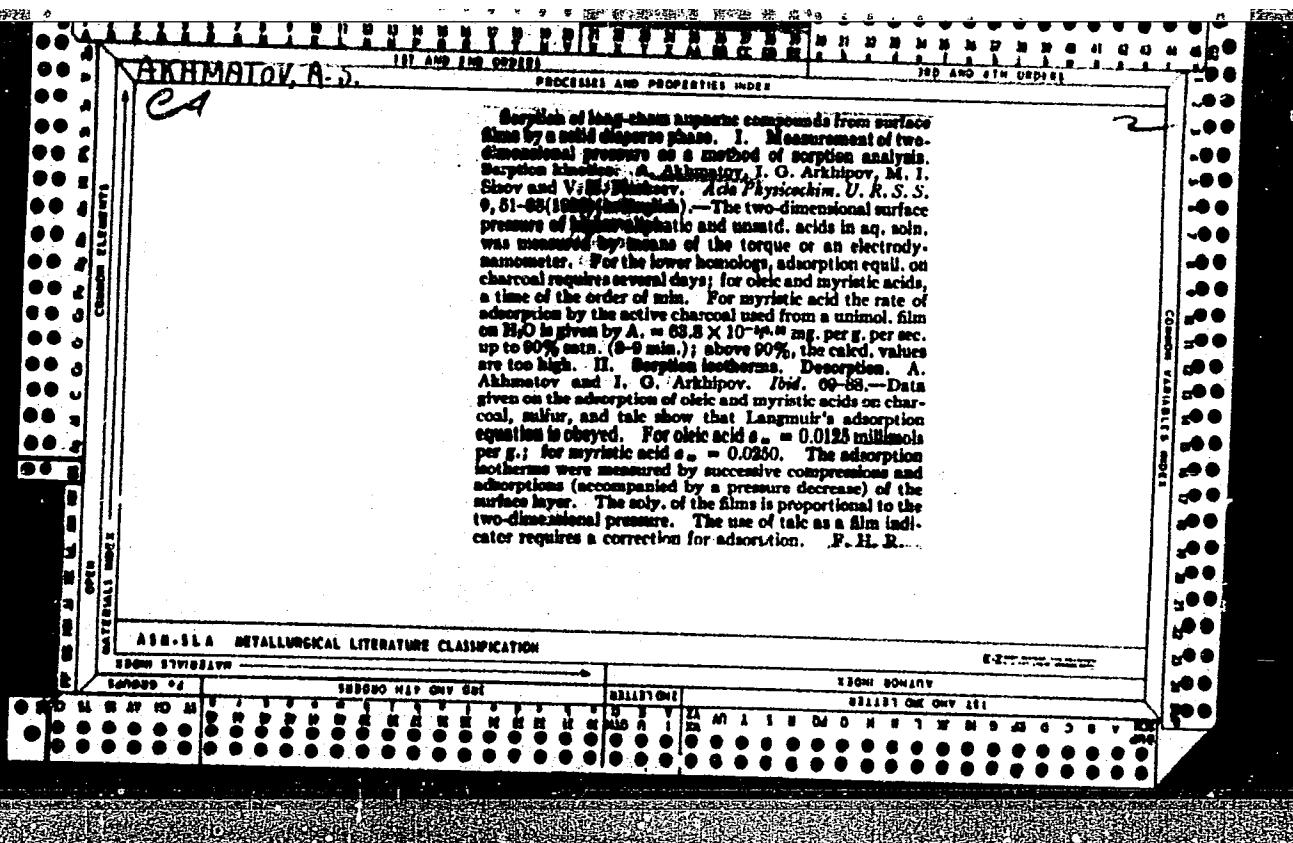


AKHMATOV, A.S.

PROCESSES AND PROPERTIES INDEX

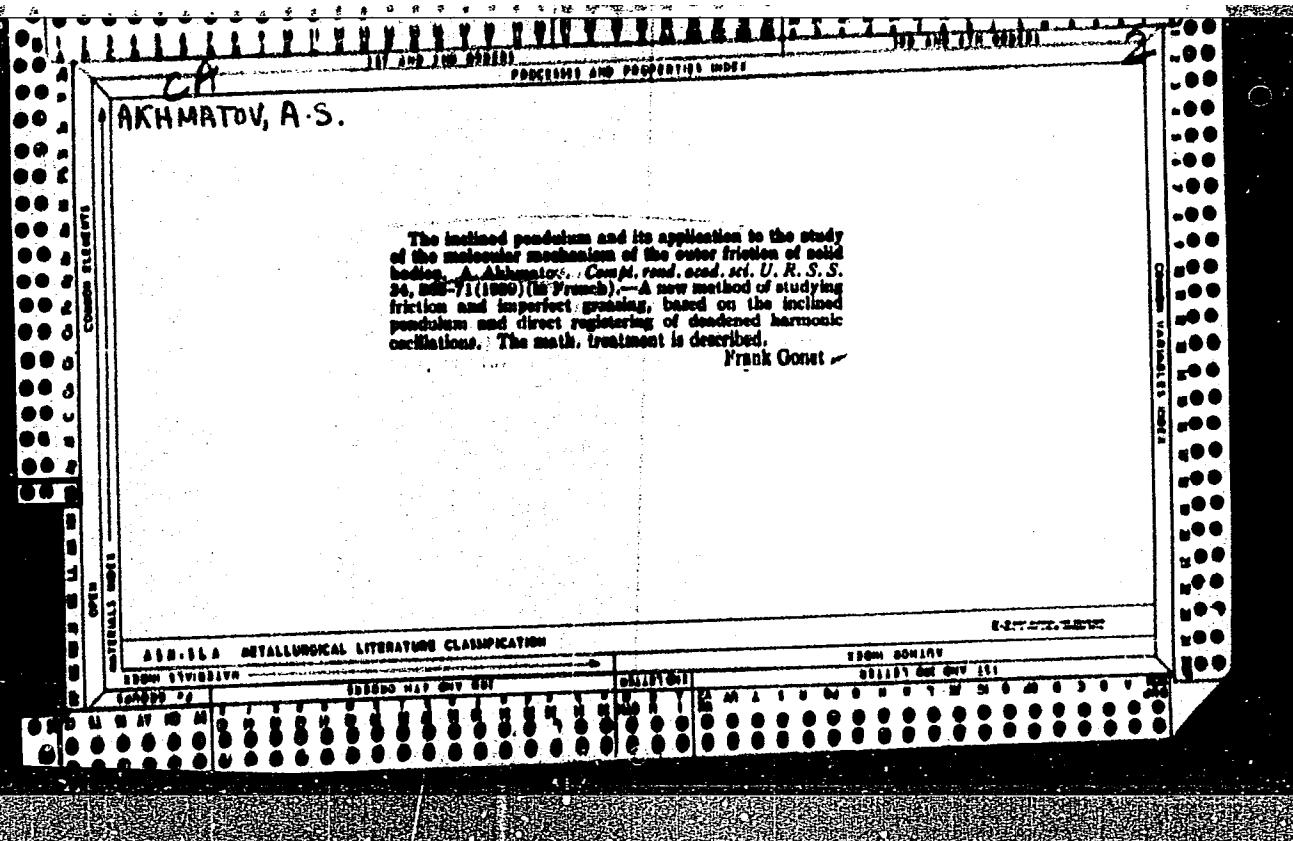
**Investigations of unimolecular adsorption layers and surface films. I. The measurement of the surface pressure of adsorption layers.** A. S. Akhmatov. *J. Phys. Chem. (U.S.S.R.)*, 1953, 13; *Kolloid-Z.* 177, 21-61 (1954).—To avoid errors of the usual torsion balance, such as limited range, change of sensitivity, variations of the torsion const., and elasticity, an "electromagnetic tensiometer" was developed for precise measurement of two-dimensional pressures of surface films. A movable coil (*A*) is mounted on a wire controlling the usual floating barrier and is surrounded by a fixed coil (*B*). As pressure is exerted on the barrier, *A* tends to rotate. The current required in *B* to return *A* to its initial position now measures the pressure on the barrier. L. P. Hall

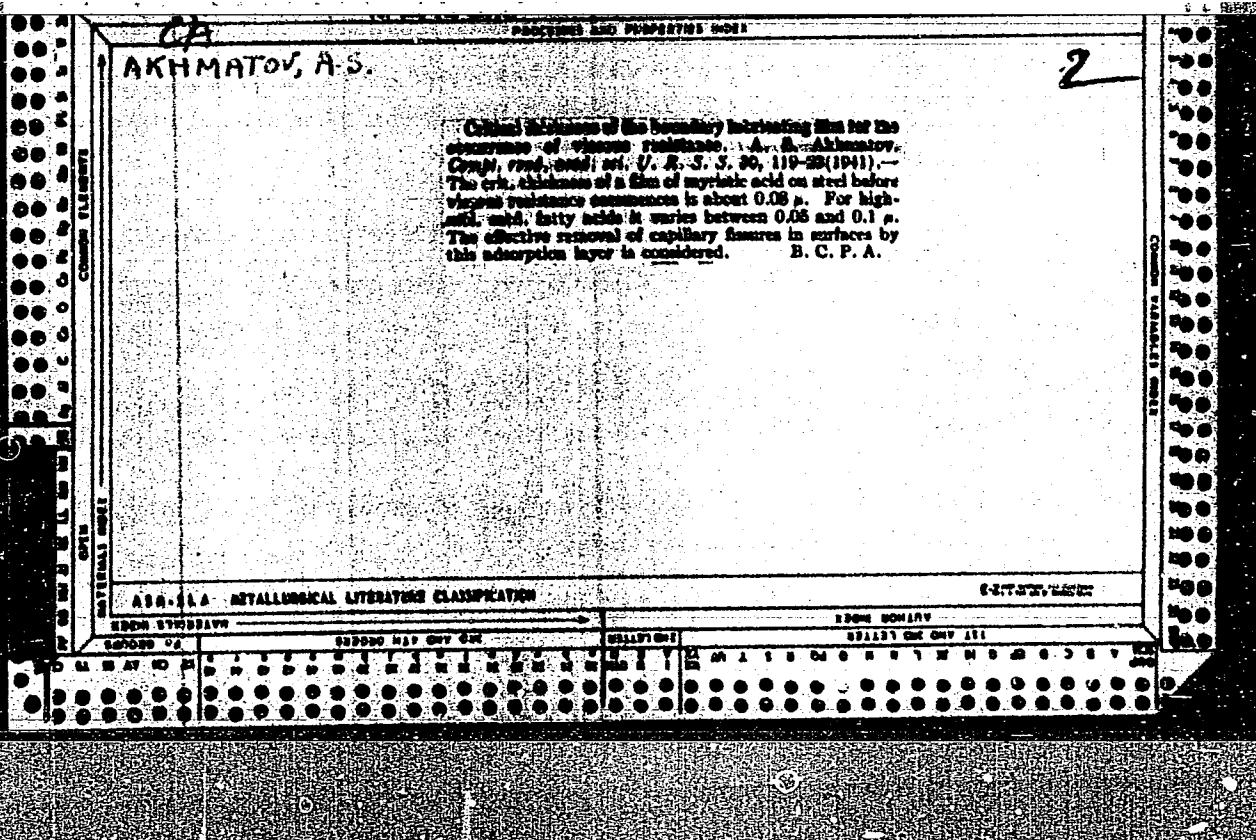


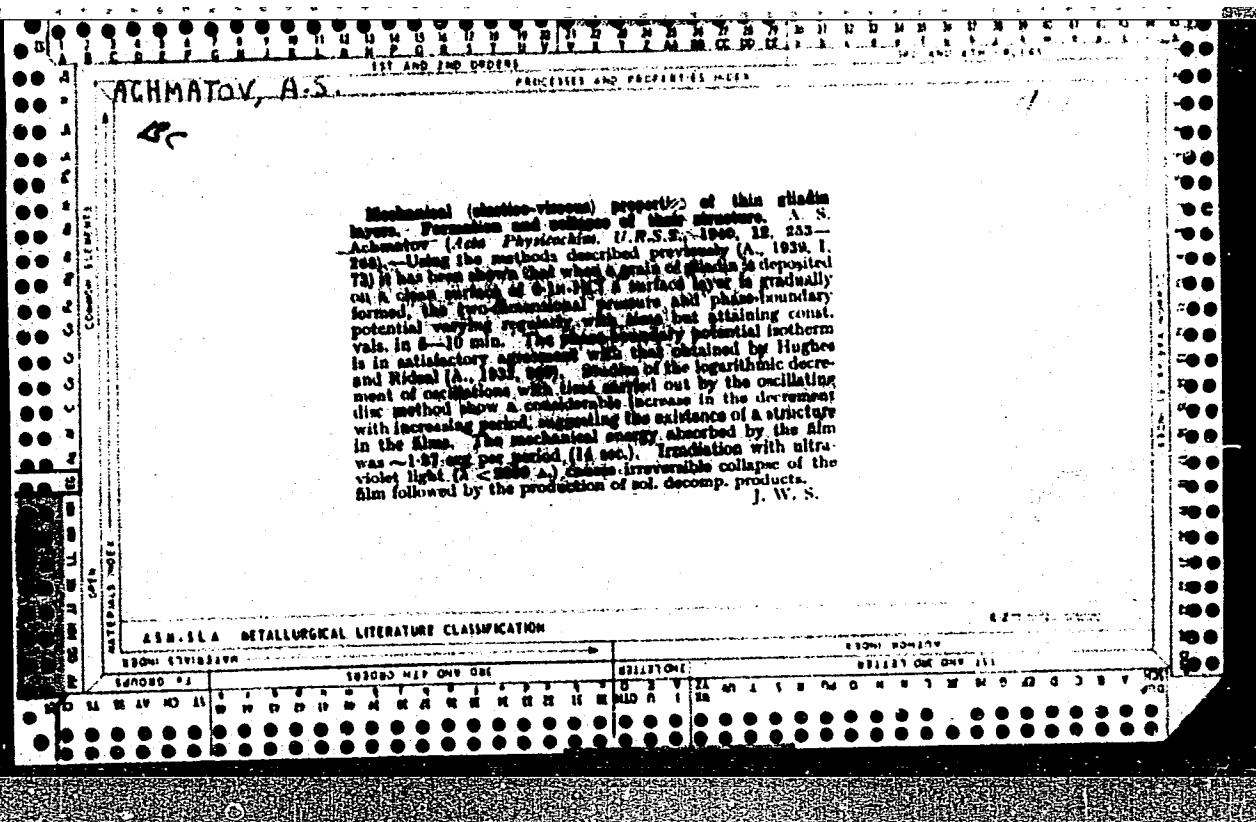


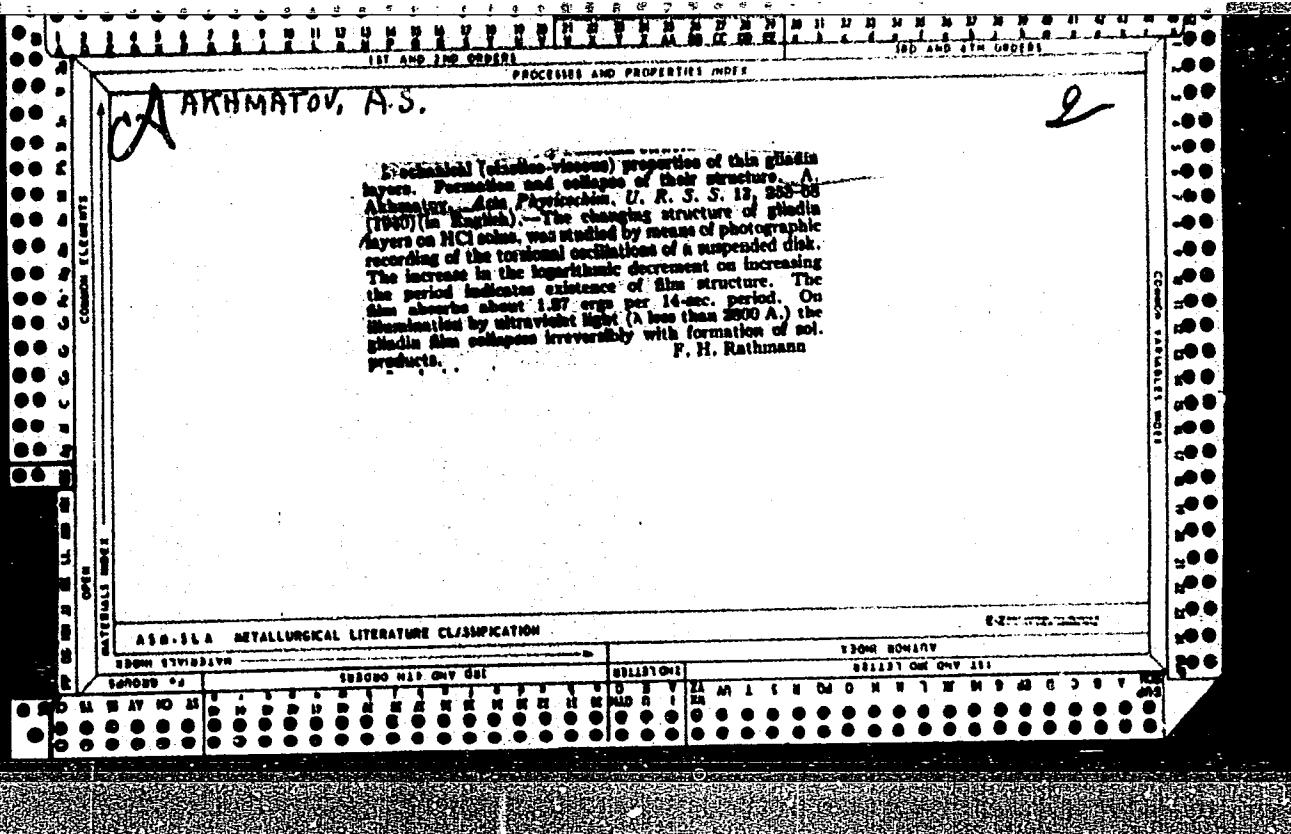
**APPROVED FOR RELEASE: 06/05/2000**

CIA-RDP86-00513R000100610011-1"









AKHMATOV A.S.

137-58-5-10612

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 250 (USSR)

AUTHOR: Akhmatov, A.S.

TITLE: The Problem of Boundary Friction (Problema granichnogo treniya)

PERIODICAL: V sb.: Razvitiye teorii treniya i iznashivaniya. Moscow, AN SSSR, 1957, pp 57-64

ABSTRACT: The fundamental concepts and views of the boundary condition and boundary friction are examined, and a survey of the literature on the subject is presented. Bibliography: 4 references.

L.G.

1. Friction--Theory

Card 1/1

*AKHMATOV, A.S.*

AKHMATOV, A.S.

Processes of finishing metal surfaces and the mechanism of boundary  
friction. Trudy Sem. po kach. poverkh. no.3:42-51 '57. (MIRA 10:11)  
(Grinding and polishing) (Friction)

AKHMATOV, A. S. and KOSHLAKOVA, L. V.

"The Investigation of Elastic Properties of Two-Dimensional Molecular Crystals of Fatty Acids Formed on Metal Surface.

report presented at the Conf. on Mechanical Properties of Non-metallic Solids, Leningrad, USSR, 19-26 May 1958.

Inst. of Machine Tools and Instruments, Moscow.

Moscow Machine Tools Inst. (?)

*Akhmatov, A.S.*

AUTHOR:

Akhmatov, A.S., Professor

3-58-2-4/33

TITLE:

Bring the New, the Progressive in the Teaching of General Science (Novoye, progressivnoye - v prepodavaniye obshchenauchnykh distsiplin) A Further Improvement in Physics Teaching at the Vtuz's Is Necessary (Neobkhodimo dal'neysheye uluchsheniye prepodavaniya fiziki vo vtuzakh)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, # 2, pp 20-24 (USSR)

ABSTRACT:

The level of physics teaching is still too low, when the presently high engineering requirements are considered. At some vtuz's, physics is only given cursory treatment.

The teaching of physics should be conducted in the following order: lectures on the basic course beginning with the 2nd semester, laboratory work (general practical exercises), so-called "seminar exercises", lectures on a specific branch of physics (during one of the later semesters) and, simultaneously specialized practical training. All studies must be completed with examinations. The number of hours allotted should not be less than 300 in the junior courses and 60 to 100 hours in the senior courses.

Elementary material taught in secondary schools should be eliminated from the program. Sections of classical physics, such as gas- and hydrodynamics, acoustics, crystallography

Card 1/3

3-58-2-4/33

Bring the New, the Progressive in the Teaching of General Sciences  
A Further Improvement in Physics Teaching at the Vtuz's Is Necessary

and others should be expanded. The concluding part of the basic course should concentrate on the principal theses - the physics of solids, metals, dielectrics, and semiconductors, the theory of liquid state, etc.

Specialized courses in physics may prove necessary to insure a good grounding in physics for engineering students. The compilation of physics textbooks remains a problem. The higher technical schools are in need of textbooks, for both the basic and special physics courses, training aids and short, instructive monographs for all physics sections. The program of practical training must be a skillful combination of classical and modern methods. Graduating theses should include an obligatory section - "The Physico-Mathematical Fundamentals of the Thesis" or "The Physico-Chemical Fundamentals of the Thesis". Members of the chairs of physics should sit on the state examination commissions.

There are 2 Soviet references.

ASSOCIATION: Moskovskiy stanko-instrumental'nyy institut imeni I.V. Stalina  
Card 2/3 (The Moscow Machine Tool and Instrument Institute imeni I.V.

Akhmatov, A. S., and Koshlakova, L. V.

"On the Measurement of the Elastic Constants of Boundary-Lubrication Layers" p.117.

Sukhoye i granichnoye treniye. Friktsionnyye materialy (Dry and Boundary Friction. Friction Materials) Moscow, Izd-vo AN SSSR, 1960. 302 p. Errata slip inserted. 3,500 copies printed. (Series: Its: Trudy, v. 2)

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Resp. Ed.: I. V. Kragel'skiy, Doctor of Technical Sciences, Professor; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: S. G. Tikhomirova.

The collection published by the Institut mashinovedeniya, AN SSSR (Institute of Science of Machines, Academy of Sciences USSR) contains papers presented at the III Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh (Third All-Union Conference on Friction and Wear in Machines, April 9-15, 1958).

Akhmatov, A. S.

"Physical Properties of Boundary-Lubrication Layers from the Viewpoint of the Structural Mechanics of the Molecules Forming Them." p. 119

Sukhoye i granichnoye treniye. Friktsionnyye materialy (Dry and Boundary Friction. Friction Materials) Moscow, Izd-vo AN SSSR, 1960. 302 p. Errata slip inserted. 3,500 copies printed. (Series: Its: Trudy, v. 2)

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Resp. Ed.: I. V. Kragel'skiy, Doctor of Technical Sciences, Professor; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: S. G. Tikhomirova.

The collection published by the Institut mashinovedeniya, AN SSSR (Institute of Science of Machines, Academy of Sciences USSR) contains papers presented at the III Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh (Third All-Union Conference on Friction and Wear in Machines, April 9-15, 1958).

8/058/61/000/009/023/050  
A001/A101

11.9000

AUTHOR: Akhmatov, A.S.

TITLE: Physical properties of boundary lubrication layers from the view-point of the structural mechanics of molecules forming them

PERIODICAL: Referativnyy zhurnal. Fizika, no. 9, 1961, 168, abstract 9D25 ("Tr. 3-y Vses. konferentsii po treniyu i iznosu v mashinakh, v. 2", Moscow, AN SSSR, 1960, 119 - 124)

TEXT: The author considers molecular-crystalline structure of boundary layers from the viewpoint of the structural mechanics of forming molecules. The following components of elastic reaction are found on the basis of an ideal improved scheme of boundary layers: 1) elasticity of methylene molecule-chains; 2) elasticity of the anisotropic molecular-crystalline structure of the boundary layer; 3) resistance to squeezing-out. Tangential resistance to slip is proportional to the square of the number of interacting groups, whereas normal resistance - to the third power of it. The concept of "interacting groups" in-

B

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

LIU CHAO-TSZEN [Lu Ch'ao-tséng]; AKHMATOV, A.S.

Investigating the adhesion of plane-parallel end measures. Izm.tekh.  
no.10;19-22 0'60. (MIRA 13:10)  
(Length measurement) (Friction)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

AKHMATOV, A.S.

PHASE I BOOK EXPLOITATION

SOV/5590

+2

Konferentsiya po poverkhnostnym silam. Moscow, 1960.

Issledovaniya v oblasti poverkhnostnykh sil; sbornik dokladov na konferentsii po poverkhnostnym silam, aprel' 1960 g. (Studies in the Field of Surface Forces; Collection of Reports of the Conference on Surface Forces, Held in April 1960) Moscow, Izd-vo AN SSSR, 1961. 231 p. Errata printed on the inside of back cover. 2500 copies printed.

Sponsoring Agency: Institut fizicheskoy khimii Akademii nauk SSSR.

Resp. Ed.: B. V. Deryagin, Corresponding Member, Academy of Sciences USSR; Editorial Board: N. N. Zakhavayeva, N. A. Krotova, M. M. Kusakov, S. V. Nerpin, P. S. Prokhorov, M. V. Talayev and G. I. Fuks; Ed. of Publishing House: A. L. Bankvitser; Tech. Ed.: Yu. V. Rylina.

PURPOSE: This book is intended for physical chemists.

Card 1/8

42-

## Studies in the Field of Surface Forces (Cont.) SOV/5590

## III. SURFACE FORCES IN THIN LAYERS OF LIQUIDS

Akhmatov, A. S. Fundamental Law of Boundary Friction and Its Physical Basis	93
Fulks, G. I. Properties of Organic Acid Solutions in Hydro- carbon Liquids at the Surface of Solids	99
Tolstoy, D. M. Some Considerations on the Regularities of Friction of the First Order	113
Tolstoy, D. M., R. L. Kaplan, Lin Fu-sheng, P'an Pin-yao. New Experimental Data on External Friction	126
Deryagin, B. V., N. N. Zakhavayeva, S. V. Andreyev, A. A. Milovidov, A. M. Khomutov. Study of the Flow of Thin Layers of Polymer Solutions By the Cinematographic Method	139
Voropayeva, T. N., B. V. Deryagin, B. N. Kabanov. Effect of the Concentration of an Electrolite on the Magnitude of the	

Card 5/8

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, Aleksandr Sergeyevich; GRIGOROVA, V.A., red.; LIKHACHEVA,  
L.V., tekhn. red.

[Molecular physics of boundary friction] Molekuliarnaya fi-  
zika granichnogo treniia. Moskva, Fizmatgiz, 1962. 472 p.  
(MIRA 16:9)

(Friction)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

L 00311-66 EWT(m)/EWP(w)/EPF(c)/T/EWP(t)/EWP(b) BW/JD/DJ/GS

ACCESSION NR: AT5020431

UR/0000/65/000/000/0005/0007

AUTHORS: Akhmatov, A. S.; Ustok, Kh. Z.

34  
32px

TITLE: Pressure dependence of surface friction forces

SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya smazochnogo deystviya i novyye materialy (Theory of lubricating action and new materials). Moscow, Izd-vo Nauka, 1965, 5-7

TOPIC TAGS: lubricant, lubricant property, surface friction / GOST 982 53 transformer oil, MZP 6 watch oil

ABSTRACT: To determine the accuracy of the Amont-Kulon surface friction law (W. B. Hardy. Collected Scientific Papers. Cambridge, 1936, p. 609) over a wide range of pressures, the friction forces of steel, Cr, Al, Cu, and Ni couples lubricated by pure stearic acid and technical oils<sup>1</sup> (vaseline oil, transformer oil GOST 982-53, and watch oil MZP-6) were investigated as a function of contact pressure. Three specimens were lubricated as per A. S. Akhmatov (Molekuljarnaya fizika granichnogo treniya. M., Fizmatgiz, 1963), loaded by a hydraulic press, and the center specimen was then pushed by a screw jack, recording the force required to initiate motion. Only the data for steel on steel are presented (see Card 1/4)

L 00311-66

ACCESSION NR: AT5020431

2

Figs. 1 and 2 on the Enclosure). As can be seen, the results were not linear, indicating that the Amont-Xulen law is a linear approximation which can be used only over a limited contact pressure range. A short discussion of the friction phenomenon concludes that the exponential nature of the curve is determined by the fundamental relation of atomic interaction forces on atomic spacing. Orig. art. has: 4 figures.

ASSOCIATION: Nauchnyy sovet po treniyu i smazkam, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR) #4

SUBMITTED: 22May65

ENCL: 02

SUB CODE: FP

NO REF Sov: 003

OTHER: 004

Card 2/4

L 00311-66

ACCESSION NR: A75020431

ENCLOSURE: 01

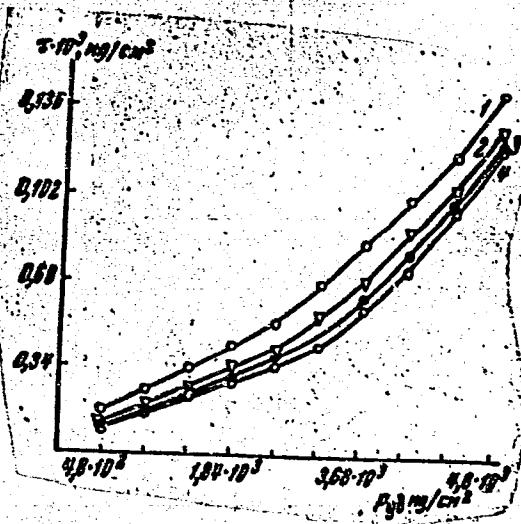


Fig. 1. Static friction vs contact pressure for various thickness of stearic acid: 1- 0.01, 2- 0.02, 3- 0.03, 4- 0.04 micron

Card 3/4

L 00311-66

ACCESSION NR: AT5020431

ENCLOSURE: 02

O

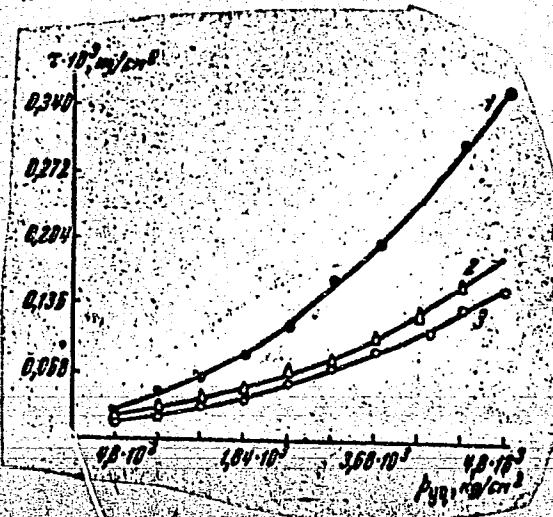


Fig. 2.  
1- vaseline oil; 2- transformer oil; 3- watch oil

Card 4/4  
dg

ACC NR: AP6034598

SOURCE CODE: UR/0115/66/000/010/0075/0076

AUTHOR: Akhmatov, A. S.; Bufeyev, V. A.; Korndorf, S. F.; Tkachenko, A. N.

ORG: none

TITLE: A photoamplifier with sliding contactless photopotentiometer

SOURCE: Izmeritel'naya tekhnika, no. 10, 1966, 75-76

TOPIC TAGS: photomultiplier, image amplification, circuit design

ABSTRACT: A new design of a photoamplifier is reported in which a sliding contactless photopotentiometer serves as the photosensitive element. The basic circuit diagram of the photoamplifier is shown in Fig. 1. The principle of operation of the proposed amplifier is as follows: with the aid of lens L and mirror galvanometer G, slot D is projected on the photosensitive layer of the potentiometer producing a conducting bridge on it. When the amplified signal current is not flowing through the galvanometer, the slot image is in the central position; in this case the resistance of the resistive layer is split in two parts (i.e., the output voltage across the load  $R_n$  is equal to zero). When the amplified signal current is flowing through the potentiometer, the galvanometer mirror is deflected as a result of which the slot image is shifted to one or to the other side acting as a sliding optical contact. Because of this, at the output of the circuit there will be a current flowing through the mirror galvanometer and to the voltage in the photopotentiometer. The photoamplifier circuit

Card 1/2

UDC: 621.383

ACC NR: AP6034598

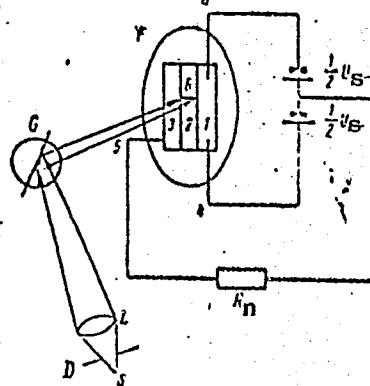


Fig. 1. Photoamplifier

F - Potentiometer; S - light source;  
 D - slot diaphragm; L - focusing lens;  
 G - mirror galvanometer; 1 - resistive  
 layer; 2 - photosensitive layer; 3 - con-  
 ducting slip ring; 4 - resistive layer  
 leads; 5 - slip ring lead; 6 - slot image  
 on the photosensitive layer;  $U_g$  - ac or dc  
 power supply source;  $R_L$  - load resistance.

has the following advantages over the existing ones: 1) high linearity of the amplitude characteristic, 2) higher gain with respect to current and voltages, 3) the gain is not affected by unavoidable voltage and current fluctuations in the power supply circuit of the light source, and 4) the sensitivity threshold of the amplifier is determined by the sensitivity threshold of the mirror galvanometer. Orig. art. has: 3 figures.

SUB CODE: 09/ SUBM DATE: 11May66/ ORIG REF: 007/ OTH REF: 001

Card 2/2

AKHMATOV, Boris Aleksandrovich; GORBACHEV, Ye.A.; IVANOV, I.S., inzhener;  
DUBROVSKIY, V.A., redaktor; PLEVZNER, V.I., tekhnicheskiy redaktor

[Self-propelled combines] Samokhodnyi kombain. Pod red. I.S. Ivanova.  
Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 183 p. (MIRA 9:8)  
(Combines (Agricultural machinery))

AKHMATOVA, I.A.

Experimental determination of the heat capacity of liquid tin at  
high temperatures. Dokl. AN SSSR 162 no.1:127-129 My '65. (MIRA 18:5)

1. Institut teplofiziki Sibirskogo otdeleniya AN SSSR. Submitted  
November 9, 1964.

AKHMATOV, K.; YEVTSHENKO, G.A., prof., otd.red.

[Winter hardiness of trees and shrubs introduced in the spruce forest belt of the Terskei Ala-Tau] Zimostoitkost' derev'ev i kustarnikov, introduktsirovannykh v poiasse elovykh lesov Terskei Ala-Too. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1960. 97 p. (MIRA 13:12)

1. Institut botaniki Akademii nauk Kirgizskoy SSR (for Yevtushenko).  
(Terskei Ala-Tau--Plants--Frost resistance)  
(Trees) (Shrubs)

AKHMATOV, K. A.

Effect of leaf fall on the wintering of woody plants. Biul.  
Glav. bot. sada no. 47:96-97 '62. (MIRA 16:1)

1. Institut botaniki AN Kirgizskoy SSR, Frunze.

(Tien Shan—Plants—Frost resistance)  
(Abscission(Botany))

AKHMATOV, M. G.

Stability of Motion, Vibration, Regulation

Dissertation: "Investigation of Means for Decreasing the Oscillations of a Synchronous Motor Under Pulsating Load." Cand Tech Sci, Kiev Polytechnic Inst, Kiev, 1953.  
(Referativnyy Zhurnal -- Mekhanika, Moscow, Mar 54)

SO: SUM 213, 20 Sep 1954

AKHMATOV, M.M., inzh.; MARSHAK, S.A., kand. tekhn. nauk

Closed shield tunneling in the construction of sewers. Prom. stroi.  
43 no.9:165. '65. (MIRA 18:9)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, P.A.

Razvitiye rechnykh perevozok v chetvertoi stalinskoi piatiletke. [Development of river freight traffic in the 4th Stalin five-year plan.] . (Rechnoi transport, 1946, no. 7-8, p.3-4)

DLC: TC601.R4

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

Y  
AKHMATOV, P. A. and GALKOVSKAJA, M. G.

Metodika analiza rosta proizvoditel nosti transportnogo flota. [Methods of analysing the transport efficiency of the fleet]. (Rechnoi transport, 1951, v.11, no. 2, p.4).  
DLC: TC601.R4

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,  
Government Department. Washington. 1952. Unclassified.

~~AKHMATOV, P.A., inzhener; GLAZKOV, M.M., inzhener~~

~~The introduction of a coordinated technology in industry and  
transportation as a potential in the development of river  
transportation. Rech. transp. 14 no.6:6-9 Je '55. (MIRA 8:9)~~  
~~(Inland water transportation) (Freight and freightage)~~

AKHMATOV, P.A., inzhener; GLAZKOV, M.M.

Ways to improve research and planning in the economics and operation  
of river transportation. Rech. transp. 14 no.11:4-9 N '55.

(MLRA 9:2)

(Inland water transportation) (Freight and freightage)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

*Akhmatov P.A.*

AKHMATOV, P.A.; CHERTKOV, K.A.

Correctly evaluate the comparative efficiency in the use of main kinds of transportation ("Methods of determining the economic efficiency of various kinds of transportation" parts I and II.)  
Rech.transp. 16 no.9:39-40 S '57. (MIRA 10:12)  
(Transportation--Costs)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

AKHMATOV, Pavel Aleksandrovich; KHODUNOV, Mikhail Yevgrafovich; NIKOLAYEVA, M.N., retsenzent; RUMYANTSEV, S.M., red.; FEDOROV, V.P., red.; FEDYAYEVA, N.A., red.izd-va; BOBROVA, V.A., tekhn.red.

[River transportation in the directives of the Communist Party, legislative acts and regulations of the Soviet government, 1918-1959] Rechnoi transport v direktivakh Kommunisticheskoi partii, zakonodatel'nykh aktakh i postanovleniakh sovetskogo pravitel'stva, 1918-1959. Moskva, Izd-vo "Rechnoi transport," 1959. 230 p.

(MIRA 13:6)

(Inland water transportation--Laws and legislation)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, P.

In the technical council of the Ministry of the River Fleet.  
Rech.transp. 18 no.12;51 D '59. (MIRA 13:4)  
(Inland water transportation)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

S/169/62/000/007/056/149  
D228/D307

AUTHORS: Kotlyarevskiy, L. N. and Akhmatov, P. G.

TITLE: Effectiveness of aeromagnetic surveying in geologic mapping, prospecting for iron ore deposits, and solving other problems in Uzbekistan (Discourse theses)

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 29, abstract 7A190 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 527-528)

TEXT: Aeromagnetic surveying in Uzbekistan allows Paleozoic structures beneath sedimentary deposits to be mapped and the sites of large intrusives to be defined more precisely. The effectiveness of aeromagnetic surveying for seeking local anomalies, related to iron ore deposits, has been confirmed by many examples; nevertheless, it encounters a number of limitations, caused by the magnetic field's complex morphology and by the procedure's imperfect application. The effectiveness of aeromagnetic surveying is lowest

Card 1/2

Effectiveness of aeromagnetic ...

S/169/62/000/007/056/149  
D228/D307

under conditions of a mountainous topography. [Abstracter's note:  
Complete translation.] ✓

Card 2/2

MEL'KANOVITSKIY, I. M.; AKHMATOV, P. G.; LEPIGOVA, E. L.

Magnetic properties of rocks in the eastern part of Central Asia.  
Uzb. geol. zhur. 6 no.5:83-85 '62. (MIRA 15:10)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii  
i mineral'nogo syr'ya, Tashkent.

(Soviet Central Asia—Rocks—Magnetic properties)

AUTHORS:

Kotlyarevskiy, L. N. and Akhmatov, P. G.

TITLE:

The effectiveness of aeromagnetic surveying in the search for iron ore deposits, in geological charting, and in solution of other problems in Uzbekistan

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 2, 1963, 29, abstract 2D176 (Byul. nauchno-tehn. inform. M-vo geol. i okhrany nedor SSSR, 1962, no. 1 (35), 82-85)

TEXT: The main results are given of a large scale aerophysical survey of eastern Uzbekistan in search for iron ore deposits. It is concluded that of the areas studied the most promising for iron ore are magnetic anomalies of intensity greater than 300 γ, associated with the zones of contact of the upper Varissk granodiorites with the carbonate deposits discovered by magnetic exploration. Information is given of main anomalies discovered by magnetic surveys made at various scales (1:50,000 and 1:200,000), carried out over the same areas; this

Card 1/2

The effectiveness of ...

S/169/63/000/002/109/127  
D263/D307

Showed the advisability of supplementing a 1:200,000 survey with a survey made on a larger scale. It is noted that in the quantitative interpretation of magnetic anomalies, caused by sheetlike magnetic deposits 10 - 20 m thick and discovered by aeromagnetic surveys with the ALTM-25 (ASGM-25) station, the errors reach 500 - 1000%. These errors are mainly due to the inertia of the aeromagnetic station.  
*[Abstracter's note: Complete translation.]*

Card 2/2

AKHMATOV, P.G.; MEL'KANOVITSKIY, I.M.

Physical properties of Paleozoic rocks in the southern zone of  
the Tien Shan. Uzb. geol. zhur. 8 no.4:76-85 '64.

(MIRA 18:5)

1. Uzbekskiy geofizicheskiy trest i Sredneaziatskiy nauchno-  
issledovatel'skiy institut geologii i mineral'nogo syr'ya,  
Tashkent.

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, S.

Akhmatov, S. - "Stakhanovite arithmetic", (About Ya. V. Troyan, drill operator of the Kommunar mine of the Krivoy Rog basin), Ogonek, 1949, No. 9, p. 6.  
SO: U-3042, 11 March 1953, (letopis 'nykh Statey, No. 10, 1949).

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

*A K H M A T O V S.*

AKHMATOV, S. (Dnepropetrovsk)

Combine operator and innovator. Nauka i zhizn' 22 no.8:33-34  
Ag'55. (MLRA 8:10)  
(Combines (Agricultural machinery))

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

AKHMATOV, S., (g.Denpropetrovsk)

Rapid construction of blast furnaces. Nauka i zhizn' 22 no.9:7-9  
S '55. (MLRA 8:12)

(Blast furnaces)

AKHMATOV, S., inzh.

The Kakhovka Sea--Krivoy Rog Canal. Znan. ta pratsia no.3:5-6  
Mr '59. (MIRA 12:10)  
(Kakhovka Sea--Krivoy Rog Canal)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, S.N.

Here ore is dressed. Nauka i zhizn' 24 no.3:25-27 Mr '57.

(MLRA 10:5)

(Krivoy Rog--Ore dressing)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

AKHMATOV, Semen Naumovich; LARINA, L.M., red.; SHADRINA, N.D., tekhn.red.

[Metallurgists and miners are introducing progressive practices]

Metallurgi i gorniaki vnedriaiut perevodoi optyt. Moskva, Izd-vo

VTS SPS Profizdat, 1958. 70 p.

(MIRA 12:9)

(Socialist competition)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, S. (Dnepropetrovsk)

Spirit of innovations. NTO 2 no.6:43-44 Je '60. (MIRA 14:2)  
(Dnepropetrovsk—Rolling (Metalwork)—Technological innovations)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, S., inzh. (Dneprodzerzhinsk, Dnepropetrovskoy oblasti)

Trusty helpers of steelworkers. Nauka i zhystia 10  
no.6:11-15 Je '60. (MIRA 13:7)  
(Dneprodzerzhinsk--Steel industry)  
(Automation)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, S. V.

34066. Stepykh pridneprovyya. (Ob osushchestvlenii stalinskoy programmy  
preobrazovaniya prirody. Ocherk). Sov. ukraina 2, 1949, s. 53-64

SO: Knizhuaya, Letopis', Vol. 7, 1955

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, V.

AKHMATOV, V. Cartography (In Akademii Nauk SSSR. The Pacific, Russian Scientific Investigations. Leningrad, 1926. p. 27-40) DLC: Q127.R9A5 1926

SO: LC, Soviet Geography, Part I, 1951; Uncl.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, V.

AKHMATOV, V.

Oceanography. (In Akademia Nauk SSSR. The Pacific. Russian scientific investigations. Leningrad, 1926. p. 95-112).

DLC: Q127.R9A5 1926

So; LC Soviet Geography Part I 1951 Uncl.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, V.G.

Die for cold bending of pipes. Mashinostroitel' no.9:30  
S '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

AKHMATOV, V. V.

Printed tables entitled "Altitude and Azimuth in Three Minutes", by V. V. Akhmatov, published by USSR Navy Ministry, Leningrad, 1936. (CIAFE Comment: Duplicate of ATIS Document #201386 which was published in "Enemy Documents, Issue #26".)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATOV, Ye.A.

Automatic machine for manufacturing springs. Mashinostroitel' no.10:  
17 0 '65.  
(MIRA 18:10)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

3 54702-65 KPA(4-2/SWT(m))/SOF(1)-2/KPR(C)/FTR/FWP(1)/FWP(1)/FCS(1)/FWP(1) P-1/  
P-1/P-1  
ACCESSION NR: AP5013447

11B/0020/65/162/001/0127/0129 12

Card 1/4

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

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"APPROVED FOR RELEASE: 06/05/2000

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L 5L702-65  
ACCESSION NR: AP5013447

FORMAT: 3 X 5

PC P&P: 0000

OTHER: 0000

Card 3/4

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

154702-65

ACCESSION NR: AP5013447

ENCLOSURE: 01

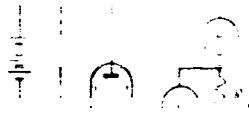


Fig. 1. Schematic diagram of the

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

AKHMATOVA, N. A.

109-3-11/23

AUTHORS: Zheludeva, G.A. and Akhmatova, N.A.

TITLE: Energy Distribution of the Photo-electrons in the Antimony-caesium Cathode during Various Stages of its Formation (Raspredeleniye fotoelektronov po energiyam dlya sur'myano-tseziyevogo katoda na raznykh stadiyakh yego formirovaniya)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol.III, No.3, pp. 400 - 404 (USSR).

ABSTRACT: The investigation of the energy distribution of the photo-electrons was done by the spherical-condenser method. The investigated cathodes were prepared as follows: a layer of Sb was deposited by evaporation on to a glass sphere. The layer had a thickness of 1 500 Å and was not transparent. The activation process followed the standard technique, i.e. the Sb layer was treated by Cs vapours at a temperature of 180 °C. Three types of the activated film were prepared. The first stage was characterised by a straw-yellow colouring of the emissive surface; the sensitivity of the surface was 0.1 that of the normal Sb-Cs cathode. The second film, corresponding to the second activation stage, had a light-red colouring and its sensitivity was 0.6 that of the standard cathode. Finally, the third cathode had a cherry-red colouring and the standard

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109-3-11/23

Energy Distribution of the Photo-electrons in the Antimony-caesium Cathode during Various Stages of its Formation

sensitivity (its sensitivity was taken as unity). Current voltage curves of the three cathodes were taken at the following wavelengths: 5 461, 4 047, 2 805, 2 482 and 2 300 Å. The resulting curves are shown in Figs. 1a, 6 and b. The curves were used to evaluate the work functions of the cathode by employing the Einstein equation and it was found that these were  $1.78 \pm 0.05$ ,  $1.56 \pm 0.05$  and  $1.51 \pm 0.05$  eV for the first, second and third activation stages, respectively. These values are valid for the wavelength of 2 805 Å. By differentiating the current voltage curves of Fig. 1, it was possible to obtain the curves of the photo-electron energy distribution; these are shown in Figs. 2a, 6 and b; curves of Fig. 2a correspond to the wavelength of 4 047 Å, those of Fig. 2b are for the wavelength of 2 805 Å, while Fig. 2b corresponds to the wavelength of 2 300 Å. The authors thank Professor N.A. Kaptsov for directing this work. There are 2 figures and 4 references, 2 of which are Russian and 2 English.

ASSOCIATION: Chair of Electronics of the Physics Faculty of the  
Moscow State University im. M.V. Lomonosov  
Card 2/3 (Kafedra elektroniki fizicheskogo fakul'teta

109-3-11/23

Energy Distribution of the Photo-electrons in the Antimony-caesium  
Cathode during Various Stages of its Formation

Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova)

SUBMITTED: January 19, 1957

AVAILABLE: Library of Congress  
Card 3/3

AKHMATOVICH, O.

POLAND / Organic Chemistry. Organic Synthesis.

G

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39575.

Author : Akhmatovich O., Leplyavy, M., Zamovsky A.

Inst : Polish Academy of Sciences.

Title : Chemistry of Cyanocarbonyl. I. Reaction Between  
Cyanocarbonyl and  $\alpha$ -methyl styrol and Allyl-  
benzene.

Orig Pub: Byul. Polsk. A.N., 1955, Otd. 3,3, No 10, 535-542.

Abstract: In the reaction of  $\alpha$ -methyl styrol (I) in a hexane  
solution at  $\sim 20^{\circ}\text{C}$  with one mole of  $\text{CO}(\text{CN})_2$  (II)  
one obtains  $\text{CH}_2=\text{C}(\text{C}_6\text{H}_5)\text{CH}_2\text{CO.CN}$  (III). The fact  
is verified by the hydrolysis of (III) ( $\sim 20^{\circ}\text{C}$ ) in  
dioxane to  $\text{CH}_2=\text{C}(\text{C}_6\text{H}_5)\text{CH}_2\text{COOH}$  (IV) and isomeriza-

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POLAND / Organic Chemistry. Organic Synthesis.

G

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39575.

Abstract: of (II) (in hexane,  $\sim 20^{\circ}\text{C}$ ) and produces  $\text{C}_6\text{H}_5\text{CH}=\text{CHCH}_2\text{C}(\text{CN}_2)\text{OCOON}$  (VIII), yield 72%, M.P. 106-111 $^{\circ}\text{C}$ . The structure of (VIII) was verified by the experiments of degradation, hydrolysis and reaction of (VIII) with aniline, phenylhydrazine and  $\text{NH}_4\text{OH}$ , causing a formation of the related products. The mechanism of the interaction between (I) and (VII) with (II) is explained by the authors on the basis of the hyperconjugation theory.

Card 3/3

~~REF ID: A6513~~

POLAND / Organic Chemistry. Organic Synthesis.

G

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39559.

Author : Akhmatovich, O., Leplyavy, M.

Inst : Polish Academy of Sciences.

Title : The Chemistry of Cyanocarbonyls. II. The Action  
of Cyanocarbonyl upon 1,1-Diphenylethylene. For-  
mation of Compounds Assumed to be Derivatives of  
Cyclopropane.

Orig Pub: Byul. Pol'sk. A.N., 1955, Otd. 3,3, No 10, 543-548.

Abstract: The reaction between  $\text{CO}(\text{CN})_2$  with 1,1-diphenyle-  
thylene in hexane solution at  $20^\circ\text{C}$  resulted in  
the formation of 2-hydroxy-2,3-dicyano-1,1-diphenyl-  
cyclopropane (I), yield more than 60%, M.P.  $108^\circ\text{C}$ ,  
and compound  $\text{C}_{30}\text{H}_{20}\text{N}_2$ , yield 10%, M.P.  $173^\circ\text{C}$ , and  
 $\text{C}_{28}\text{H}_{24}$ , yield  $\sim 3\%$ , M.P.  $72^\circ\text{C}$ . The reaction prob-  
ably proceeds with an intermediate formation of a

Card 1/5

19

POLAND / Organic Chemistry. Organic Synthesis. G

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39559.

Abstract: normal product of addition in the double bond  $(C_6H_5)_2C(CH_2CN)$ . (COCN). The authors express the assumption that such a reaction type is a general one for olefines with the exception of the cases of superconjugation. (Compare Comm. I, R. Zh. Khim., 1958, 39575). The structure of (I) is verified by the following transformations:

At the hydrolysis of (I) with an aq. KOH solution, 2 moles of  $NH_3$  are liberated and the K-salt of 1, 1-diphenyl-2-hydroxycyclopropane-2,3-dicarboxylic-2,3 acid (II) is formed or, at milder conditions, — monoamide of (II), (III). The Ag-salt of (II)

Card 2/5

POLAND / Organic Chemistry. Organic Synthesis.

G

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39559.

Abstract: produces with methyl iodide a dimethylether of II (IV), M.P. 125-127°C.(IVa).

The attempts to separate a free (II) caused its cyclolactyl rearrangement into an  $\alpha$ -keto- $\beta,\beta$ -diphenylglutaric acid which is immediately transformed into lactol (V), M.P. 163.5-165°C, with the following structure,  $(HOOC)(HO)CC(C_6H_5)_2CH_2COO$ .

The acetate of V, M.P. 144-145°C. When (V) is treated with  $SOCl_2$  and methanol, a lactone of a monomethyl ether of  $\alpha$ -methoxy- $\alpha$ -hydroxy- $\beta,\beta$ -diphenyl glutaric acid, M.P. 87.5-89°C. Decarboxylation of (V) leads to the formation of the lactone  $\gamma,\gamma$ -dihydroxy- $\beta,\beta$ ,diphenyl propionic acid, M.P. 108.5-110.5°C.

Card 3/5

20

POLAND / Organic Chemistry. Organic Synthesis. G

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39559.

**Abstract:** When (III) is acidified, a cyclolactone rearrangement takes place and an amide (V) is formed, M.P. 207-209°C, which is converted into (V) under treatment with KOH and acidifying. When the K-salt of (V) is heated in an alkaline solution, the reverse cyclolactone rearrangement occurs with the formation of the K-salt of (II).

When (V) is treated in cold water with an 1% alc. solution of HCl, (IV) is produced (M.P. 124.5-125.5°C (IVb), which causes a depression of the melting point of a mixture with (IVa)).

Card 4/5

POLAND / Organic Chemistry. Organic Synthesis. G

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39559.

Abstract: (IVb) produces an acetate with the M.P. of 103-105°C, whereas (IVa) is not being acetylated. (IVa) and (IVb) probably are cis- and trans-isomers respectively of (IV).

Card 5/5

21

AKHMATSHIN, M. podpolkovnik

On to a modern basis. Voen. znan. 42 no.2:18-19 F '66.  
(MIRA 19:1)

1. Zamestitel' nachal'nika shtaba grazhdanskoy oborony Kiyeva  
i Kiyevskoy oblasti.

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATULLINA, N.B.; ZHUMATOV, Kh.Zh.

One method of studying the initial stage of the formation of  
the influenza virus in the cell. Vest. AN Kazakh. SSR 21  
no.9:74-76 'S '65.  
(MIRA 18:9)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

ZHUMATOV, Kh. Zh.; AKHMATULLINA, N.B.; AKBERDIN, S.U.

Further investigation of poliomyelitis in Kazakhstan. Issv. AN  
Kazakh. SSR. Ser. med. i fiziol. no. 1:79-85 '60. (MIRA 13:10)  
(KAZAKHSTAN—POLIOMYELITIS)

AKHMATULLINA, N.B.

Virusological and serological study of children in contact with  
poliomyelitis patients. Izv. AN Kazakh. SSR. Ser. med. i  
fiziol. no. 2:6-9 '60. (MIRA 13:10)  
(KAZAKHSTAN--POLIOMYELITIS)

ZHUMATOV, Kh.Zh.; AKHMATULLINA, N.B.

Analysis of the changes of humoral immunity in children after the  
peroral immunization with live vaccine against poliomyelitis.  
Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 5:148-156 '61.  
(MIRA 15:4)  
(Poliomyelitis--Preventive inoculation)

ZHUMATOV, KH.ZH.; AKHMATULLINA, N.B.

Results of virological and serological investigations of persons suspected to be sick with poliomyelitis and persons in contact with them in 1956-1960. Trudy Inst.mikrobiol.i virus.AN Kazkah.SSR 6:185-192 '62.

(POLIOMYELITIS)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATULLINA, N.B.

Investigations on the dynamics of virus-neutralizing antibodies in  
children with poliomyelitis. Trudy Inst.mikrobiol.i virus.AN  
Kazkah.SSR 6:193-202 '62.  
(MIRA 15:8)  
(POLIOMYELITIS) (ANTIGENS AND ANTIBODIES)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMATULLINA, N.B.

Phagocytosis of poliomyelitis viruses. Vest. AN Kazakh.SSR 20  
no.11:73-75 N '64. (MIRA 18:2)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

ACCESSION NR: AR4015661

S/0081/63/000/021/0319/0319

SOURCE: RZh. Khimiya; Abs. 21L48

AUTHOR: Ivashentsev, Ye. I.; Akhmezova, N. A.

TITLE: Breakdown of ilmenite concentrate in a stream of dissociated ammonium chloride

CITED SOURCE: Tr. Tomskogo un-ta, v. 154, 1962, 184-188

TOPIC TAGS: ilmenite, ilmenite concentrate, anhydrous ferric chloride, titanium concentrate, ilmenite concentrate breakdown

ABSTRACT: The authors studied the breakdown of 2 specimens of ilmenite concentrate when heated (400-800°C) in a stream of dissociated  $\text{NH}_4\text{Cl}$ . It was established that  $\text{FeCl}_3$  ( $\text{FeCl}_2$ ), as well as  $\text{TiO}_2$ , can be isolated in relatively pure form when ilmenite concentrate is subjected to the action of dissociated  $\text{NH}_4\text{Cl}$  at 600°C or above. Authors' summary.

DATE ACQ: 09Dec63

SUB CODE: ML, CH

ENCL: 00

Card 1/1

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMECHET, L.S.; BLOKH, O.I.; MATSIYEVSKIY, A.G.; NESTEROV, Ye.N.; SVIRIDENKO,  
S.Kh.

Selecting parameters for vibration bin feeds. Stan. i instr. 30 no.2:  
8-9 F '59. (MIRA 12-3)

(Machine tools--Attachments)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

80119

S/121/60/000/01/01/001

25.2000

AUTHORS: Akhmechet, L.S., Blokh, O.I., Shorgin, V.S.  
TITLE: Magnetostriiction Drive of Microfeeds  
PERIODICAL: Stanki i instrument, 1960, Nr 1, pp 18 - 20

TEXT:

The authors point out that the machining accuracy of parts depends to a great extent on the possibility of very small displacements of tools and blanks. Small feeds make it even possible to correct the setting of tools in order to compensate for the wear. With the aid of magnetostriiction a microfeed drive is obtained which ensures stable minor displacements of tools and blanks. The principal layout of the device, based on the change in the length of a ferromagnetic nickel rod in direction of the induced magnetization, is shown in Figure 1. A description of the magnetostriiction drive (magnetostriktor) is given. By using microfeed drive it is possible to effect a successive displacement of the movable parts of the machine tool during an automatic operation cycle. The minimum feed necessary for such a displacement corresponds to the magnetostrictive elongation of the nickel rod during one cycle of magnetization, while the total displacement of the movable machine tool part during repeated cycles of magnetization is limited only by the free length of the rod. The operational characteristics

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S/121/60/000/01/01/001

## Magnetostriction Drive of Microfeeds

of the magnetostriction drive is determined by the following functions:  
1) the variation in magnitude of magnetostrictive elongation due to different physical-chemical properties of the rod material and variations in magnetization of the coil field; 2) the effect of the resisting force on the magnitude of microfeed. Figure 2 shows the ratio of relative magnetostrictive elongation  $\lambda = \frac{\Delta l_m}{L}$  for various materials.

The authors state that the limiting values of relative elongation of various ferromagnetic materials can be increased by a suitable thermal or mechanical treatment of the rod blanks. The operative qualities of the magnetostriction drive with nickel rod were analyzed on a special device (Figure 3a) which was designed and constructed at the Odessa SKE-3 Laboratory. The electric circuit of the device is shown in Figure 3b. Lever-type microgages (with graduation values of 0.001 mm) were used as measuring instruments, recording the motion of the rod. Besides, armature of electroinductive pick-ups, connected to the phase-sensitive circuit, were in contact with the two faces of the rod. Figure 4 shows the function characterizing the variation in magnitude of magnetostrictive elongation when the magnetization of the coil field is varied, in the case of absence of axial resisting forces. The effect of the force Q, gripping the magnetostrictor rod during the feed action, is illustrated by a graph shown in Figure 5. It is evident from the Graph that,

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## Magnetostriction Drive of Microfeeds

S/121/60/000/01/01/001

if the resisting forces are increased, the magnetostrictive elongation of the rod is reduced according to a law approaching that of linearity. The authors emphasize that an important operative characteristic of the machine tool is the stability of the microfeed. Repeated measurements of rod elongation at different intensities of the magnetic field and duration of cycle (Figure 6) showed that the limit of errors of microfeed does not exceed 10%, while the average magnitude of error of some displacements amounted to approximately 2 - 3%. Figure 7 shows an oscillograph recording of the microfeed process. As a result of their investigations the authors draw the following conclusions: 1) At a constant load  $Q$ , generated by the forces resisting to the feed, it is necessary to select the cross-section of the nickel rod in such a way that the rated stress in it should not exceed  $\sigma = 3 \div 4 \text{ kg/mm}^2$ . In this case that load does not lead to substantial variations of the magnetostrictive effect, and the feed magnitude during each cycle is determined by the field intensity of the coil; 2) if during the operation of the feed mechanism variable resisting forces possibly arise, the variable component of the rated compressive stress of the rod should be less than  $0.5 \text{ kg/mm}^2$ ; 3) the magnetizing coil should ensure a

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80119

Magnetostriiction Drive of Microfeeds

S/121/60/000/01/01/001

field intensity in the magnetic circuit of approximately 60 - 80 ampere turns/cm; 4) in order to prevent a substantial thermal elongation of the rod, the current density in the coil winding should not exceed 2 amp/mm<sup>2</sup>. Four graphs, 1 circuit, 1 photograph, 1 diagram and 1 oscillogram.

Card 4/4

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1

AKHMECHET, L.S., inzh.

Experimental investigation of a device for vertical lubrication.  
Vest.mash. 40 no.9:41-43 S '60. (MIRA 13:9)  
(Lubrication and lubricants)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100610011-1"

PHASE I BOOK EXPLOITATION SOV/6209

Akhmechet, Leonid Samoylovich, Leonid Vladimirovich Vayser, and Arkadiy Romanovich Chudnovskiy.

Primeneniye plasticheskikh mass v tekhnologicheskoy osnastke (The Use of Plastics in Engineering Equipment) Moscow, Mashgiz, 1962. 155 p. 10,500 copies printed.

Reviewer: L. S. Pilipenko, Engineer; Ed.: A. I. Bykovskiy, Engineer; Tech. Ed.: M. S. Gornostaypol'skaya; Chief Ed. (Southern Division, Mashgiz): V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for technical personnel in machine plants engaged in the design and manufacture of engineering equipment.

COVERAGE: The book deals with the use of plastics in the manufacture of engineering equipment, such as molds, dies, fixtures, and tools. Suggestions are made on how to design, manufacture, and use the plastic

Card 1/4

SOV/6209

The Use of Plastics (Cont.)

Ch. V. Plastic Casting Accessories	47
Ch. VI. Plastic Forging Accessories	77
Ch. VII. Use of Plastics in Manufacturing Machine-Tool Fixtures	96
Ch. VIII. Use of Plastics in the Manufacture of Tools and in the Inspection of Dies and Molds	110
Ch. IX. Use of Plastics in Abrasive Tools	113
Ch. X. Use of Plastics in Molds for Casting Plastic Parts	117
Ch. XI. Use of Plastics in Electroplating	119
Ch. XII. Use of Bonding Agents in the Manufacture of Engineering Equipment	122

Card 3/4

MAKAROV, A.A., inzh.; AKHMECHET, L.S., inzh.

New machine tools designed by the Special Design Bureau 3.  
Mashinostroenie no.1:87-89 Ja-F '62. (MIRA 15:2)

1. Spetsial'noye konstruktorskoye byuro No.3, Odesskiy  
sovnarkhoz.  
(Machine tools--Design)

S/191/63/000/003/011/022  
B101/B186

AUTHORS: Akhmachet, L. S., Vayser, L. V., Chudnovskiy, A. R.

TITLE: Effect of fillers on the properties of plastic compositions used for producing industrial equipment

PERIODICAL: Plasticheskiye massy, no. 3, 1963, 37-58

TEXT: Without specifically mentioning details of their own publication, the authors give a review of various filler and of their application in the West, based on publications in the "Mashinostroyeniye za rubeshom" and "Vestnik mashinostroyeniya". There are 2 tables.

Card 1/1

SVIRIDENKO, S.Kh.; AKHMECHET, L.S.; VOLKOV, A.A.; MEYSTEL', A.M.;  
MIZHEVSKIY, L.L.; POLYAKOV, L.M.; RASHKOVICH, M.P.;  
SRIENER, L.A.; KHVALOV, Yu.G.; SHPIGLER, L.A.; SHRAGO,  
L.K.; ORLIKOV, M.L., inzh., retsenzent; SVECHNIKOV, L.V.,  
inzh., retsenzent; MATSIYEVSKIY, A.G., inzh., red.

[Elements of the automation of machine tools] Elementy  
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