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ZAKHARZHEVSKAYA, N.P.

化氯化丙基基甲基化合物

-----Changes in renal vascule resistance under the effect of adrenal medullary hormones. Fiziol.zhur. 51 no.7:814-820 '65. (MIRA 18:10) 1. Laboratoriya fiziologii vegetativnoy nervnoy sisterg i nervnoy trofiki Instituta fiziologii imeni I.P.Pavlova AN SSSK Leningrad.



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制度自由电外的影響使非自由

30826. ZAKHARZHEVSKAYA, V. N. AND YELIN, L. V.

Elektricheskoye soprotivleniye plenok smazochnogo masla (Mashinnoye 2) i transformatornogo. Nauch. trudy (Odes. in-t inzhenerov mor. flota), vyp. 8, 1949, s. 120-34.

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ZAKHAHZHEVSKIY, V.B.

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Change in unconditioned reflexes from the chemoreceptors of the intestine in cats following a collision of alimentary and defensive reactions. Trudy Inst. fiziol. 9:350-359 '60. (MIRA 14:3)

1. Laboratoriya kortiko-vistseral'noy patologii (zaveduyushchiy -I.T.Kurtsin) Instituta fiziologii im. I.P.Pavlova. (REFLEXES) (INTESTINES)

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AUTHOR: Zakharzhevskiy, V. B.; Olesk, A. O. B	
ORG: Laboratory of Cortical and Visceral Physiology and Pathology, Institute of Physiology im. Pavlov, AN SSSR, Leningrad (Laboratoriya kortiko- vistseral'noy fiziologii i patologii Instituta fiziologii AN SSSR)	
TITLE: Use of highly sensitive Se-Ca photoresistors in studying peripheral blood circulation in animals and humans	
SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 62, no. 7, 1966, 112-114	-
TOPIC TAGS: photoresistor, blood circulation, animal physiology, human physiology, biosensor, plethysmography/ $\frac{SFZ-1}{2}$ photoresistor, $\frac{SFZ-2}{2}$ photoresistor	
ABSTRACT: New Soviet equipment using semiconductor photoelements to study blood circulation (photoplethysmography) is described. The advantages of Se-Ca photoresistor (maximum sensitivity in the range between the visible and near-IR regions occupied by the absorption spectrum of blocd, higher sensitivity) over S-Ca and S-Fb photo- elements are pointed out. The best Soviet Ca-Se photoresistors for this purpose are the SFZ-1 and SFZ-2. The SFZ-2 Se-Ca photoresistor is light in weight, small (8 x 13 x 3.5 mm), has a large photosensitive surface and sealed photosensitive layer and a low working voltage (2-5 v). Two photoplethysmographic sensors incorporating UDC: $612.13.014.421.7$	
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ZAKHASHVILI, M.A. Forecasting the transference of southern cyclones. Trudy TbilNIGMI no.17:49-55 '65. (MIRA 18:11)

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VOLKOV, N. N. ZAKHAVALINSKIY, M. N.

Ternary Mutual System Consisting of Lithium and Sodium Fluorides and Bromides Izv. Fiz.-Khim. N.-I In-Ta Pri Irkutskom Un-Te, Vol 2, No 1, 1953, pp 69-71

Investigated the above system using a visual-polythermal method. The surface of the liquidus curve for the system includes three areas of crystallization: LiF, NaF, and area of solid solutions of LiBr and NaBr. (RZhKhim, No 21, 1954).

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enti dan in dina dia 1960 ilaya dia 1975 dia mampina dia 1985. Ny INSEE dia mampina dia mam ZAKHAVAVEVA PHASE I BOOK EXPLOITATION 609 Deryagin, B. V., Zakhavayeva, N. N., Talayev, M. V., and Filippovskiy, V. V. Opredeleniye udel'noy poverkhnosti poroshkoobraznykh tel po soprotivleniyu fil'tratsii razrezhennogo vozdukha (Determination of the Specific Surface of Powders on the Basis of Filtration Resistance to Rarefied Air) Moscow, Izd-vo Akademii nauk SSSR, 1957. 59 p. 4,000 copies printed. Sponsoring Agency: Akademiya nauk SSSR. Institut fizicheskoy khimii. Ed. of Publishing House: Shteynbok, G. Yu.; Tech. Ed.: Polesitskaya, S. M. This pamphlet presents B. V. Deryagin's method of determining specific PURPOSI: surfaces of porous and powdered substances for use in various fields of technology. It is meant for research workers and for workers in industrial laboratories. COVERANE: The authors describe Deryagin's method as a simplified and rapid method for the determination of specific surfaces of porous and powdered substances. The method is based on the theory of filtration of rarefied gases through porous media, taking into consideration the Knudsen flow. Chapter one gives a detailed description of the determination of the external specific surface from the steady state flow of rarefied air. The equation for the specific surface is: Card 1/6

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etermination of the Specific Surface of Powders (Cont.) 609 $- S_{0} = \frac{24}{13} \sqrt{\frac{2}{\pi}} - \frac{\sqrt{2}}{\sqrt{2\pi}} \cdot \frac{\Delta p}{\Delta x}$
$Q \sqrt{MRT} \Delta x$ expressed in [S ₀] = cm/cm; where $B_0 = 2$ specific surface (in cm ² per 1 cm ³ of the porous medium)
Q = quantity of moles of air flowing through $l cm^2$ of a porous layer $\Delta x cm$ thick per second, with a pressure drop across the porous medium Δp dynes/cm ²
S = "porosity" equal the ratio of the pore volume to the total volume of the medium M = mean molecular weight of air (29.3 g/moles) R = universal gas constant (in erg/mole. degr.)
T = absolute temperature, [°] K Card 2/6

609 Determination of the Specific Surface of Powders (Cont.)

The apparatus (Fig. 1, 2) was constructed at the Institute of Physical Chemistry, AS USSR. It does not require a skilled operator. The determinations can be accomplished in 20 to 30 minutes with an accuracy of 2 to 5 percent. The average porosity was accepted as 0.5. For certain powders, e.g., quartz, the specific surface value can be related to the 0.5 porosity value after introduction of a correction into the formula

$$B_{o} = K \frac{h_{p}}{h_{q}} \frac{\delta^{2}}{\Delta x}$$

This empirical correction equals 1 for $\mathcal{S} = 0.5$: as suggested by S. G. Shvartser.

$$S_{o} = K \frac{p}{h_{a}} \frac{\delta}{\Delta x} \frac{\delta}{1 - \delta}$$
 [Note: x missing in text]

where K = constant of the apparatus

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h = pressure drop across the sample (in cm) D

h = flow-meter reading (in cm).

Table 6 gives a comparison of results obtained by means of the Deryagin method with Card $\frac{3}{6}$

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Determination of the Specific Surface of Powders (Cont.) 609

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results from several other methods used for the determination of specific surfaces of carbon blacks (investigators: Tesner-Polyakova, Brunauer-Emmet-Teller, Harkins-Jura, Zuyev-Mikhaylov, Laboratory of Academician A. N. Frumkin, Laboratory of Academician M. M. Dubinin).

Part II describes the determination of the total specific surface of porous media and powders based on the transient filtration of marefied air (Knudsen flow). The total surface includes surface areas of blind pores and channels. The equation used is



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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610020-3 Determination of the Specific Surface of Powders (Cont.) 609 The results obtained are in good agreement with results of the nitrogen-adsorption method. Table 7 gives data obtained by means of various methods (transient flow of air, Deryagin's steady state flow, nitrogen-adsorption method). Fig. 9 and 10 show the apparatus used in the transient flow method. Appendix 1 contains detailed instructions and Appendix 2 has diagrams of details of Deryagin' apparatus. Deryagin's method permits the determination of specific surfaces of fine and course dispersed materials, and the difference between results obtained from the steady state and transient flows gives the specific surface of blind pores and channels. There are 28 figures, 9 tables, and 18 references, 5 of which are English, 1 German, and 12 Soviet. TABLE OF CONTENTS: : 3 Introduction Part I. Method for the Measurement of the Specific Surface by Means of the 7 Steady State Rarefied-gas Flow 8 1. Apparatus and measuring methods 2. Selection of the capillaries of the flow meter 16 18 3. Conditions of the experiment Card 5/6

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5	 Calculation of the specific surface Determination of the specific surface of coarse powds 	21 21
6	5. Results	29
Part I	I. Method for Determining the Total Specific Surface of Porous Materials	Powders and 32
	. Apparatus and measuring methods	33
	2. Measurement of pressure 5. Results of measurements	37 39
Conclu	sion	41
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ZAKHA	AVAYEVA., NN. DERYAGIN, B.V., KARASEV, V.V., ZAKHAVAYEVA, N.N., PA - 3563
AUTHOR:	LAZAREV, V.P.
TITLE:	Mechanism of Boundary Lubrication and Boundary Lubrication and Boundary Lubrication and Boundary Properties. (Mekhanizm granichnoy smazki i svoystva granichnogo
PERIODICAL:	masochnogo sloya, Russian) Zhurnal T _e khn. Fiz., 1957, Vol 27, Nr 5, pp 1076 - 1086 (U.S.S.R.)
ABSTRACT :	There are two different opinions concerning this product the product the product the product the product the product of the processed by Bowden (The Friction and Lubrication of Solids, Oxford, II. ed., 1954), (The latter by the authors of this paper. The latter opinion is based on numerous theoretical and experimental investigations based out according to entirely new methods. It says that the carried out according to entirely new methods. It says that the influence exercised by the solid wall is continued into the interior of the liquid which in the depth of many molecular layers contains polar molecules, and in this way causes a change of the properties of these layers compared to those of the space phase. This exercises a considerable influence on the boundary lubrication. A short survey of all those facts is given on the basis of which the difference of opinion mentioned above must be decided in favor of the opinion expressed by the authors. Direct measurements of the viscosity in boundary layers of organic liquids, oils, and polymers according to the latest and greatly improved methods showed clearly that in
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PA - 3563 Mechanism of Boundary Lubrication and Boundary Lubrication Layer Properties. boundary layers with a thickness of up to 0,1 / viscosity has a value that differs greatly from the space value. These results show that Bowden's opinion is wrong. In order to explain the static friction of solid surfaces separated by a boundary-polymolecular layer, the equation for static friction F is written down according to the two-term friction law: $\mathbf{F} = \mu \left(\mathbf{N} + \mathbf{S} \mathbf{p}_{o} \right) = \mu \mathbf{N} + \mathbf{S} \dot{\mathbf{\Theta}} \quad \left(\mathbf{\Theta} = \mu \mathbf{P}_{o} \right)$ m is the "true" friction coefficient, N - stress, S the surface of the true and molecular contact, and p_0 - the constant of the pressure difference which measures the molecular force of attraction acting upon the surface unit of the true and molecular contact. Bowden explains frictional phenomena only with the help of the second term of this formula, and this is his mistake, for it is just the second term that explains the existence of static friction and confirms Amanzon's law of friction. (With 12 illustrations and 14 Slavic references) SSOCIATION: Institute for Physical Chemistry, Moscow PRESENTED BY: SUBMITTED: 1.11.1956 AVAILABLE: Library of Congress Card 2/2

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MERYAGIN, B.V.; ZAKHAVAYEYA, N.N.; FILIPPOVSKIY, V.V.; TALAYEV, M.V. Determining total specific surface areas of powdered and porous bodies [vith summary in English]. Insh.-fiz.zhur. 1 no.8:98-101 Ag '58. (MIRA 11:8)
1. Institut fisicheskoy khimii AN SSSE, Noskva. (Surfaces-Measurement)

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ZAKHAVAYEV Ŕ N N r Bradskalanija po metodan Lesiadoranija struktury vysokodisperanykh 1 poristych kal. 24. imilagrad, 1996. – bey. M.: Definit, M.M. Anndezicianj M. of Publishing Names: Mirmons, L.L. Nach. M.: Markovich, S.M. 2 8 Numbur. This book is intended for ecimitits, teachers and advanced indents interested in the structural examines of bighly disperse and porous bodies. O'UNNUM: This collection contates reports by members of warlous Soviet insti-meticas of bigher education: Institute of Mysical Checkery, AS Uncont Ş â Detinents of Cheverry, as Gorgins Mar, Mr. Madara Armach, AS (2021) corples factorized for a corpus Mar, Mr. Madara Armach, AS (2021) they factored factorized institute for Portuburg Data Optical Tart-tion Pre-Barra Poirschich Castitatis "Acrophysical "Institute" and other Entrometery remarks were made by Printeone M. Arrophysical "Institute" and other Distributions of Billonic Castitatis "Acrophysical "Institute" and other Arritisma (see Table of Casting), daris from Proper Mark the four subject thermical and proposal adopted at the close of the cashresso of the stitutions and proposal adopted at the close of the cashresso. Alteridas Agraciasi Abadamiya maut 2000. Destitut fisichesboy bhinit and Detitut bhinii siilbatov. Mercuration (by contributing arthorn) I.M. Remits and Tu.V. Mirakty, Oros-meaning metrywary suscents.contactorest, intro frantiture, drougery Scientific bineti family art. 2. Scientable of Statistic Turation and Statistic B.M. Bulmarty, Az Bang, and M.N. Paplore, Neutorally statistic fundition-mesone Rayles and Methyanya Medicovity interaction and fundition-mesone Rayles and Methyanya Medicovity interaction and fundition-mesone Rayles and Methyanya Medicovity interaction for Remains, 8.5., and M.A. Panty-Bialts. Comprises of Memity Christed Pres to Mentigetics of Peron Class Revetants of Memity Christed Methods Minor, A.K., R.G. Zaytern, and V.F. Bubban (Institute of Mysical Consists, 16 1058). Depirtue Taged Atoms to Ecositics of Mysical and Tays of Commiss measure the Atoms to Ecositics the Specific BOHT/VOC Respects J.V., I.H. Zahanyen, M.V. Talayev, and V.V. Filippowity (Institute of Forical Camiler, A.G. 1988). A Filipetide Betand of Betarmining the Specific Area of Prove Betas Z.HKHAUAYEVA, N.N. NAL LEC. REPORT OF LEADINGTOD THE SPECIFIC Allace of Leader Deprine Notes NAME I NON EXPLORATION RADUCHHERVICT, L.V. -BUELS OF COTTONS (9) 1

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AUTHORS :	Deryagin, B.V., Yermin, V.N., Grechnyuk, R.L., Zakhavayeva, N.N., Filippovskiy, V.V., Funke, V.F.
TITLE:	Determination of the Specific Surface Area of Powders in the Production of Hard Allovs
PERIODICAL: ABSTRACT:	Tsvetnyye metally, 1959, Nr 11, pp 55-60 (user)
ADDIURCI:	it is possible to determine more accurately the specific surface of powders by using
	flow through a layer of powder, and B.V. Deryagin's
	results of the determination of the specific surface area by the gas porosity methods were compared with those of the methyl alcohol vapour adsorption method
6	by Brunauer (Ref.1) was used as the control method for
Card 1/5	powders of below 10µ grain size. The specific surface area of area of coarser powders was calculated from their
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Determination of the Specific Surface Area of Powders in the Production of Hard Alloys

granulometric compositions which can be determined by means of a microscope. In this article the practical results of the application of the four above methods for the determination of the specific surface area of powders in the manufacture of hard alloys are given. The determination of the specific surface area of H2WO4, WO3, W, WC, TiO2; TiCWC, Co powders and a VK6A mixture (mixture of WC and 6% Co powders) using Poiseil's system of gas flow across the specimen (in the form of a compressed tablet of powder) was carried out in an apparatus designed for the measurement for the specific surface area of powders by Carman's method. In practice the results of the determination of the specific surface area are usually converted to average diameter or grain size, assuming that the particles have a spherical shape. In Table 1, grain sizes of powders are shown for different porosities. The results of determination of the specific surface area of a few powders in the manufacture of hard alloys

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66300 SOV/136-59-11-12/26 Determination of the Specific Surface Area of Powders in the Production of Hard Alloys apparatus. Besides, any adsorption method giving the total surface area of particles gives an incorrect powder grain size value in the case of particles with internal pares. This method proved to be useful for the selection of a simpler and easier method, by comparing the values of specific surface obtained by this method with those obtained by other simpler 2. It has been shown that the methods and methods. instruments which are based on the filtration of air at atmospheric pressure and use Cozeni-Carman's formula, give incorrect lower values for the specific surface area of powders of high and medium dispersion. These methods can only be used for the determination of the specific surface area of coarsely dispersed powders. The determination of the specific surface area of 3. powders by the resistance to filtration of discharged nitrogen (Deryagin's method) is the most convenient. This method and the apparatus based on it, enable the Card 4/5 external specific surface area of highly dispersed

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SOV/136-59-11-12/26 Determination of the Specific Surface Area of Powders in the Production of Hard Alloys

> powders of hard alloys to be determined quickly and sufficiently accurately and the average particle size to be calculated. This is extremely important in the manufacture of hard alloys. This method is theoretically well-founded and in practice enables the external specific surface area of different powders of any degree of dispersion from a particle size of 100µ and less onwards, to be measured without limitation. Therefore this method can be successfully applied for the determination of the specific surface area and particle sizes of powders of hard alloys. There are 4 tables and 8 references, of which 6 are Soviet and 2 English.

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AUTHORS:	Deryagin, B. V., Zakhavayeva, N. N., Lopatina, A. M.	
TITLE:	A New Method of Determining the Liquid Filtration Coefficient and the Capillary Transfusion Rate in Powdered Materials	-
PERIODICAL:	Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 10, pp. 66 - 68	
of determinin of transfusio saturated lay the Lir displ shown in Fig. cording to th filtration co the apparatus	previous paper (Ref. 1), B. V. Deryagin suggested a method ag quickly the filtration coefficient at the initial stage on at which filtration is not yet slowed down by the liquid- vers. By this method, filtration is measured by determining laced by the liquid. The authors designed the apparatus 2 for determining the liquid filtration coefficient ac- bis idea. The authors give a formula for calculating the pefficient from experimental results. The principal part of a is a cylindrical cell to locate the sample. This cell is in a pipe system; water is pressed in on one side of the	

CIA-RDP86-00513R001963610020-3

84265 A New Method of Determining the Liquid S/170/60/003/010/010/023 Filtration Coefficient and the Capillary B019/B054 Transfusion Rate in Powdered Materials

HARRING METHODE BY FLORED

cell, and the air escaping on the other side is measured. The filtration coefficients measured by the apparatus described are compared with the values calculated theoretically according to Carman (Table 1).

Sample	Particle size in microns	Liquid	Ko	к ₁	K ₁ /K _o
Sand	50.0	Water	2.49.10-6	2.54.10 ⁻⁶	1.02
Sand	20.0	Water	1.18.10-6	1.25.10-6	1.05
Sand	7.0	Water	4.10.10-8	4.07.10-8	0.99
Clay	0.1	cci4	1.20.10-10		0.91
Sand	1.0	11	2.24.10-9	2.42.10 ⁻⁹	1.08

 K_o are the experimental, K_1 the theoretical values of the filtration coefficients in the dimension cm³sec/g; each of the experimental values

Card 2/3

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610020-3

--- _• s/069/60/022/004/003/003 B01¢/B054 AUTHOR: Zakhavayeva, N. N. ----25 Years of the Laboratoriya poverkhnostnykh yavleniy TITLE Instituta fizicheskoy khimii AN SSSR (Laboratory for Surface Phenomena of the Institute of Physical Chemistry of the AS USSR) Kolloidnyy zhurnal, 1960, Vol. 22, No. 4, pp 506-511 PERIODICAL: TEXT: The 25th anniversary of the foundation of the laboratory mentioned in the title was celebrated in March 1960; the laboratory is headed by B. V. Degyagin, Corresponding Member of the AS USSR. An exposition and a scientific conference were held on this occasion. The present article describes the activities of the laboratory, mention being made of the individual scientists and their special fields as well as the subjects of the reports delivered at the conference and the names of the lecturers. The following names are mentioned among the scientists working at the laboratory: M. M. Kusakov, L. S. Lebedeva, A. S. Titiyevskaya, V. P. Lazarev, N. N. Zakhavayeva, I. I. Abrikoscva, A. D. Malkina, M. F. Futran, T. N. Card 1/3

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25 Years of the Laboratoriya poverkhnostnykh s/069/60/022/004/003/003 yavleniy Instituta fizicheskoy khimii AN SSSR B019/B054 (Laboratory for Surface Phenomena of the Institute of Physical Chemistry of the AS USSR) Voropayeva, B. N. Kabanov, G. I. Izmaylova, V. V. Kurasev, M. V. Talayev.

S. P. Bakanov, N. A. Kroteva, I. N. Aleynikova, L. P. Morozova, P. S. Prokhoroy, L. F. Leonov, I. S. Artemov, G. Ya. Vlasenko, Twenty eight scientific lectures were delivered at the conference on the following subjects: 1) General problems of surface forces, 2) adhesion of polymers, 3) surface forces in thin liquid layers, 4) surface phenomena in disperse systems, and 5) surface forces in aerosols. V. I. Spitsyn, head of the institute mentioned in the title, opened the conference. The reports delivered by B. V. Deryagin, M. M. Kusakov and L. I. Mekenitskaya, L. M. Sheherbakov, and S. S. Dukhin referred to subject 1). Reports on subject 2) were delivered by N. A. Krotova and L. P. Morozova, V. P. Smilgi, I. N. Aleynikova, V. L. Vakula, V. Ye. Gul', Khay Yun-tazuy, S. S. Voyutskiy, and M. S. Matsik. Reports on subject 3) were given by D. M. Tolstoy, R. L. Kaplan and Lin' Fu-shen', as well as by C. I. Fuks:"Properties of Solutions of Organic Acids in Liquid Hydrocarbons on the Surface of Solids", B. V. Deryagin, N. N. Zakhavayeva, S. V. Andreyev, T. N. Voropayeva, B. N. Kabanov, A. S. Akhmatov and Lyu Chahau tszen. V. N. Yashin. Card 2/3

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。 1997年1月,1月1日(1月1日),1月1日(1月1日)),1月1日)(1月1日))(1月1日))(1月1日))(1月1日))(1月1日))(1月1日)(1月1日)(1月1日))(1月1日))(1月1日))(1月1日) 1997年1月,1月1日(1月1日)(1月1日))(1月1日))(1月1日))(1月1日))(1月1日))(1月1日))(1月1日))(1月1日)(1月1日))(1月1日))(1月1日)) 25 Years of the Laboratoriya poverkhnostnykh yavleniy Instituta fizicheskoy khimii AN SSSR s/069/60/022/004/003/003 (Laboratory for Surface Phenomena of the Institute B019/B054 of Physical Chemistry of the AS USSR) A. V. Gorodetskaya, and A. S. Titiyevskaya. Reports on subject 4) were delivered by M. P. Volarovich, M. P. Churayev, S. V. Nerpin, Yu. M. Glazman, B. V. Deryagin, N. N. Zakhavayeva, A. M. Lopatina, N. M. Kudryavtseva, and G. Ya. Vlasenko, on subject 5) by B. V. Deryagin, S. P. Bakanov, S. S. Dukhin, and <u>G. A. Batova</u>: "Transport of Aerosol Particles Due to Diffusion", P. S. Prokhorov, L. F. Leonov, S. P. Bakanov: "On the Influence of Thermal Diffusion on the Behavior of Aerosol Particles in a Heterogeneous Gas Medium"; S. P. Bakanov and G. A. Martynov: "Gravitational Coagulation of Fog Particles", A. I. Storozhilova: "Differential Counter for Nuclei of Condensation", L. F. Leonov, <u>M. V. Velichk</u>o, B. V. Deryagin, P. S. Prokhorova: "Diffusion Chamber With Constant Oversaturation". Card 3/3 -

APPROVED FOR RELEASE: 09/19/2001

ZAKHAVAYEVA, N.N. PHASE I BOOK EXPLOITATION SOV/5590 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, Izdvo AN SSSR, 1961. 231 p. Errata printed on the inside of back cover. 2500 copies printed. Spensoring 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. PUPPOSE: This book is intended for physical chemists. Card 1/8

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Studies in the Field of Surface Forces (Cont.) SOV/5590 COVERAGE: This is a collection of 25 articles in physical chemistry on problems of surface phenomena investigated at or in association with the Laboratory of Surface Phenomena of the Institute of Physical Chemistry of the Academy of Sciences USSR. The first article provides a detailed chronological account of the Laboratory's work from the day of its establishment in 1935 to the present time. The remaining articles discuss general surface force problems, polymer adhesion, surface forces in thin liquid layers, surface phenomena in dispersed systems, and surface forces in aerosols. Names of scientists who have been or are now associated with the Laboratory of Surface Phenomena are listed with references to their past and present associations. Each article is accompanied by references. TABLE OF CONTENTS: Zakhavayeva, N. N. Twenty-Five Years of the Laboratory of Surface Phenomena of the IFKhAN SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR) 3 Card 2/8

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Studies in the Field of Surface Forces (Cont.) SOV/5590 Talayev, M. V., B. V. Deryagin, and N. N. Zakhavayeva. Experimental Study of the Filtration of Rarefied Air Through Porous Bodies in a Transitional Area of 187 Pressures Deryagin, B. V., N. N. Zakhavayeva, M. V. Talayev, B. N. Parfanovich, and Ye. V. Makarova. Metallic Device for Determining the Specific Surface of Powdered and Porous 190 Bodies V. SURFACE FORCES IN AEROSOLS Deryagin, B. V., S. P. Bakanov, S. S. Dukhin, and G. A. Batova. Diffusiophoresis of Aerosol Particles 197 Bakanov, S. P., and B. V. Deryagin. Behavior of a Small Aerosol Particle in a Monuniformly Heated Mixture of Gases 202 Strozhilova, A. I. Differential Counter of Condensation 209 Nucloi Card 7/8

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29038 s/081/61/000/018/010/027 B104/B101 17.4430 Talayev, M. V., Deryagin, B. V., Zakhavayeva, N. N. 5 4400 Experimental investigation of the filtration of rarefied AUTHORS: air through porous bodies in the pressure transition region Referativnyy zhurnal. Khimiya, no. 18, 1961, 75, abstract TITLE: 16B570 (Sb. "Issled. v obl. poverkhnostn. sil", M., AN SSSR, PERIODICAL: TEXT: It is shown that the passage curve of air passing through a porous plate as a function of the mean pressure has a minimum similar to that which occurs if gas flows through capillaries. The minimum is sharp if the porosity coefficient of the body is high, and vanishes if the porosity coefficient decreases. From this it follows that the formula of B. V. Deryagin (Dokl. AN SSSR, 1946, v. 53, 627) is correct in a rough approximation for highly porous bodies even in the pseudo-molecular transition range where no molecular conditions of gas flow are observed. It was found that under pseudo-molecular flow conditions, the gas passage per unit cross section of the porous plate is somewhat lower than that Cerd 1/2

APPROVED FOR RELEASE: 09/19/2001



8/081/61/000/021/017/094 B102/B138 Deryagin, B. V., Zakhavayeva, N. N., Andreyev, S. V., AUTHORS: Milovidov, A. A., Khemutov, A. H. . -Filming the flow of thin layers of polymer solutions TITLE: Referativnyy shurnal. Khimiya, no. 21, 1961, 65, abstract PERIODICAL: 21B525 (Sb. "Issled. v. obl. poverkhnostnykh sil", M., AN SSSR, 1961, 139-142) 1 TEXT: The authors improve on an earlier method (RZhKhim, 1954, no. 12, 30393; 1957, no. 23, 74075) for investigating the rheological properties of thin layers of solutions by blowing, introducing the use of moving pictures. The apparatus is described. It gives a complete picture of the process of blowing the liquid layer. Photographs of the interference bands are shown for turbine oil, vinyl polymer and its solutions in turbine oil. [Abstracter's note: Complete translation.] Gard 1/1

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610020-3

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S/263/62/000/007/009/014 1007/1207

AUTHORS:Deryagin, B. V., Zakhavayeva, N. N., Talayev, M. V., Parfanovich, B. N. and
Makarova, E. V.TITLE:Metal device for determining the specific surface of powder and porous bodies

TITLE:Metal device for determining the specific surface of the specific surfa

TEXT: The 'IFKh SSSR' has designed a device for determining the specific surface of porous bodies, working on the principle of filtration of highly rarified gas under molecular flow conditions. The filtration theory developed by B. V. Deryagin made it possible to derive the formula for determining the specific surface

 S_0 in m²/g:

$$S_0 = k \frac{\delta^2 h_d}{h_c \cdot F}$$

where k = the constant of the device; $\delta = degree$ of porosity; $h_u = pressure drop within the sample; h_r = rheometer readings; F = mass of sample, in g. The device comprises a capillary-type rheometer, a pressure difference gage, a vacuum chamber for the boat, with a porous baffle plate and a sealing cover and fittings$

Card 1/2

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610020-3

Metal device ...

S/263/62/000/007/009/014 1007/1207

(cocks and pipes). All components, except the capillary tube, the reading tubes and the vacuum gage, are made of steel or brass. Prior to the determination, the device is completely sealed up, and then the rheometer capillary tube is graduated; a weighed powder sample is introduced in uniform layers in the boat and compacted by means of a special press. The height of the powder layer is measured by means of a vernier gage; the boat then is put into the chamber where a vacuum of the order of 10^{-1} to 10^{-2} mm Hg is produced. An air stream is blown through the sample at a definite flowrate h_r . The pressure drop h_d is then measured. The device (weighing 8 kg) is extremely sturdy and may be used in a wide field of measurements (of carbon black, sugar, lacquers, sintered carbide production, etc). The accuracy of measurements is about 5%. Duration of a single determination is 20 min. There are 6 figures and 8 references.

[Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 09/19/2001

	S/170/62/005/005/010/015 B104/B102	•
	Deryagin, B. V., Zakhavayeva, N. N., Andreyev, S. V.	
	The laminar flow of high-molecular liquids and their solu- tions	NUTHORS : FITLE :
L 	Inzhenerno-fizicheskiy zhurnal, v. 5, no. 5, 1962, 92 - 95	PERIODICAL:
ı	is a survey of the authors papers on a method for investiga- ilms of liquids flowing on a solid and for studying their devised in the laboratoriya poverkhnostnykh yavleniy IFKh boratory of Surface Effects IFKh AS USSR), (cf. eg. Derysgin SSSR, 4, 101, 1955). There are 2 figures.	ting thin for properties,
3	Institutes (Institute)	ASSOCIATION
	August 7, 1961	SUBLITTED:
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		• •	s/020/62/147/004/012/03 B117/B186	27
AUTHORS:	Deryagin, B. Zakhavayeya,	V., Corresponding Me	ember AS USSR, Talayev,	M. V.,
TITLE:	Experimental porous media	study on the filtration in the Knudsen and	tion of rarefied air th transition regions of p	rough ressure
PERIODICAL:	Akademiya na	uk SSSR. Doklady, v	. 147, no. 4, 1962, 819	-821
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TEXT: 'The confirm the and concent	filtration of r assumption the ration, must he	arefied air in a spe t the gas consumption we a minimum. Subst.	cial unit was studied t n, as a function of pre ances such as pressed prosity coefficient	o ssure
TEXT: The confirm the and concent cotton, fla $\delta = 0.4-0.9$	filtration of r assumption the ration, must ha as filters, car placed in a cy	arefied air in a spe t the gas consumption ve a minimum. Subst dboard etc. with a p lindrical bulb, were	cial unit was studied t n, as a function of pre ances such as pressed orosity coefficient used as filters. Afte	o ssure
TEXT: The confirm the and concent cotton, gla $\delta = 0.4-0.9$ vacuum of 1 $10^{-3}-10^{-4}$ m consumption	filtration of r assumption the ration, must he ass filters, car placed in a cy 10^{-2} mm Hg was r im Hg by a stead and pressure v	carefied air in a spe t the gas consumption we a minimum. Subst. dboard etc. with a p lindrical bulb, were reached, evacuation w dy air flow through t were measured. Using	cial unit was studied t n, as a function of pre ances such as pressed orosity coefficient used as filters. Afte as continued to	o ssure of

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s/020/62/147/004/012/027 B117/B186 Experimental study on the ... as a function of pressure snowed a minimum that corresponds to the pseudomolecular flow conditions. In the region of molecular flow, the gas consumption becomes independent of the mean pressure. With less porous substances ($\delta \leq 0.7$), the direction suddenly changes from the horizontal into a rising curve which corresponds to the viscous flow. With very porous substances ($\delta \gg 0.8$) a transition region exists. The curve bends sharply toward the pseudo-molecular flow. After reaching a minimum it again rises linearly and corresponds to a viscous flow. There are 3 figures. Institut fizicheskoy khimii Akademii nauk SSSR (Institute ASSOCIATION: of Physical Chemistry of the Academy of Sciences USSR) July 19, 1962 SUBMITTED: Card 2/2

APPROVED FOR RELEASE: 09/19/2001

DERYAGIN, B.V., otv. red.; ZAKHAVAYEVA, N.N., red.; MARTYNOV, G.A., red.; NOROZOVA, L.I., red.; STEFARCVICH, N.N., red.; BANKVITSER, A.L., red.

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[Studies in the field of surface forces] Issledovaniia v oblasti poverkhnostnykh sil; sbornik dokladov. Moskva, Nauka, 1964. 362 p. (MIRA 17:10)

1. Konferentsiya po poverkhnostnym silam, Institut fizickeskoy khimii Akademii nauk SSSR. 2d, 1962. 2. Chlen-korrespondent AN SSSR (for Deryagin).

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	s/180/60/000/02/014/028
18.750	O R111/R150
AU IE.ORS:	Zakher, I.M., Maksimova, O.P., Nikonorova, A.I., Plemyannikova, I.M., and Yampol'skiy, A.M. (Moscow)
TITLE:	Study of the Austenite Stabilization Effect in Phase Work Hardening
DEDTODICA	
PERIODICA	L: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960,Nr 2, pp 93-103 (USSR)
ABSTRACT:	The authors suggest that the important problem of gamma-
	phase stabilization should be considered to include the
	action of any factor which raises stability without
	changing the chemical composition of the austenite (Refs 1-8). One of these is internal work hardening due
	to the martensite transformation itself (Ref 9), which has
	Deen described by Golovchiner and Yu.D. Tyapkin, and by
	Golovchiner and Landa (Ref 10). In superinvar alloy
	Maksimova and Golovchiner found a "super-stabilization" effect for austenite with respect to the martensite
	transformation in subsequent cooling. In the present work
Card	the aim was to find: the influence of various degrees of
1/4	phase work hardening on austenite stability, winetics of
-7 7	isothermal transformation, and the micro- and submicro-
	,(

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S/180/60/000/02/014/028 B111/E152

Study of the Austenite Stabilization Effect in Phase Work Hardening work hardening has different effects on the two alloys (Ref 7). The observed changes in kinetics (similar to those produced by stabilizing plastic deformation) can be explained by the relatively high temperature required for the reverse martensite transformation, which makes it impossible to retain those changes in austenite fine structure which favour formation of martensite nuclei. Phase work hardening was found to produce extension of structural faults in adjacent austenite zone, decrease in martensite grain size and, to some extent, relative stability of some austenite zones. In general, the changes produced are very stable (disappearing at 1100-Card 1150 °C); their removal on raising the temperature takes place in a stepwise manner. There are 11 figures, 1 table and 15 references, of which 4/4

14 are Soviet and 1 is English.

SUBMITTED: July 30, 1959

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ZAFHER, Yu.Ya. Conditioned reflexes to relative and absolute characteristics of stimuli under conditions of their simultaneous and succesof stimili under domittions of their vys.nerv.deiat. 13 no.2: sive presentation in monkeys.Zhur.vys.nerv.deiat. 13 no.2: (MIRA 16:9) 261-266 Mr-Ap 63. 1. Sechenov Institute of Evolutionary Physiology, U.S.S.R. Academy of Sciences, Leningrad. (CONDITIONED RESPONSE)

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New data on the problem of the physiological pattern of conditioned reflex produced by the relationship between stimuli in children. Vop. psikhol.no.4:125-134 '63. (MIRA 17:1)

1. Institut evolyutsionnoy fiziologii imeni I.M. Sechenova AN SSSR, Leningrad.

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an by same and the second s RO L 22240-156 EWT(1)SOURCE CODE: UR/0210/65/000/010/0026/0028 ACC NR. AP5025769 32 AUTHOR: Zakhidov, A. Z.; Atabayev. Sh. T. B ORG: Uzbek Scientific Research Institute of Senitation, Hygiene and Occupational Diseases, Tashkant (Uzbekskiy nauchno-issledovatel'skiy institut sanitarii, gigiyeny i profzabolevaniy) TITLE: Soil and water pollution with agricultural use of hoxic chemicals Pin Uzbekistan SOURCE: Gigiyena i sanitariya, no. 10, 1965, 26-28 TOPIC TAGS: toxicology, pesticide, soil, water, organic phosphorus compound, chlorine compound, water rellection ABSTRACT: Chemical pollution of soil and water was investigated in agricultural areas of Uzbekistan where organophosphorus and organochlorine compounds are widely used. Soil samples taken at depths of 0 to 30 cm and 70 to 100 cm and water samples taken from various open water basins were analyzed to determine DDT, hexachloran, and aldrin levels. Findings show that the water and soil in most of these areas are polluted with these toxic organic compounds and in many cases the levels exceed permissible meximum concentrations. DDT, hexachloren, 2 614.76+614.777]:632.95 (575.1) UDC: Card 1/2

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