



POVILAYTIS, M.M.

History of the formation of the Kuu granite massif in central Kazakhstan and tungsten mineralization associated with it. (MIRA 17:12) Geol. rud. mestorozh. 6 no.5340-56 S-0 '64.

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.



POVILAYIS, Margarita Makeimovna; EONSHTEDT-KUPLETSKAYA, E.M.; SHLEFOV, V.K., red.izd-va; MAKUNII, Ye.V., tekhn.red. Basic mineralogical characteristics of the Dahida molybednumtungsten deposit] Osnovnye cherty mineralogi dahidinekogo molibdeno-vol-framovgo mestorozhdenila. Moskva, Izd-vo Akad. nuk SSSR, 1960. 1660. (Akademila nauk SSSR. Institut geologi rudnykh mestorozhenil, petrografil, mineralogi i geokhimil. Trudy, no.24) (MIRA 13:6) (Dahida Range--Molybdenum ores) (Dahida Range--Tungsten ores)





POVILAYTIS, M.M. [Povilaitis, M.M.]

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New data on granitoid bodies having rhythmically zonal structures. Geol.rud.mestorozh. no.5:37-52 S-0 '61. (MIRA 14:9)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva. (Rocks)



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POVILAYTIS, M.M.

Feldspathization phenomena in ore deposits of the Kuu granite massif (dentral Kazakhstan). Geol. rud. mestorozh. no.2:66-78 Mr-Ap '61. (MIRA 14:5)

1. Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii AN SSSR.

(Kazakhstan-Feldspar)

POVILATTIS, M.M.

Correlation of mineralization and dikes as one criterion of the genetic association of ore deposits and intrusions, as in the Dzhida deposit. Izv.AN SSSR.Ser.geol. 22 no.1:90-105 Ja '57. (MLRA 10:3) 1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

(Dzhida Valley--Ore deposits)

TITLE:	The PT-projection of the Alumina-water System (PT-proyektsiya sistemy kremnezem-voda)
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 3, pp 645-646 (USSR)
ABSTRACT:	The system mentioned in the title is a limiting system for many silicate systems with volatile components which are of importance in petrology and mineralogy. At least 5 phases exist in this binary system at high temperatures: cristobalite, tridymite, quartz, liquid and vapor. It is (according to Ref 1) a multiple system with one degree of freedom. In general, such system must have 5 invariant points and 10 monovariant lines. The present case is simplified by the circumstance that all crystalline phases are of the same chemical composition, and only the monovariant reactions (1)-(6) are possible between the phases. In the reactions (4)-(6) the liquid and gaseous phases do not take part, so that the equilibriums are degenerated. This simplifies very much
Card 1/3	the building-up of a basic scheme for the system mentioned in

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The PT-projection of the Alumina-water System

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the title (Fig 1). All 3-phase monovariant equilibriums are stable in this scheme. This is in agreement with the experiment. In the present case, the degenerated equilibriums are stable on both sides of the invariant points. The corresponding curves pass over into one another without changing their directions. The variant, in which the equilibrium tridymite + + gas = melt is unstable, is excluded from consideration. An experiment, however, makes it easily clear that tridymite can coexist with the melt. As the experimental PT-diagram of the mentioned system (Ref 2) is incomplete, and does not agree with the theoretical scheme (Fig 1), the authors achieved some precision and completion by their experiments. The resulting experimental PT-diagram corresponds to the theoretical scheme (Fig 1). Figure 2 shows this experimental diagram (Refs 3, 4). A comparison of this diagram with the material found by other investigators shows differences in the position of various points and lines. There are 2 figures and 4 references, 1 of which is Soviet.

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CALLER STREET, S

FOVILEYKO, Ryurik Petrovich

[Controls and tools; experimental lecture to students majoring in design in the faculties of Mechanical Engineering and Instrument Manufacture of the Noveabbirsk E.ectrical Engineering Institute] Organy upravlenita i instrument; eksperimental'naia lektsiia dlia studentov konstruktorskikh spetsial'nostei mashinostroitel'nogo i priborostroitel'nykh fakul'tetov Novosibirskogo elektrotekhnicheskogo instituta. Novosibirsk, Elektrotekhn. in-t, 1965. 88 p. (MIRA 18:12)

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CUDILIS, V., POVILONIS, S.	
Craniology	
Skull of a fostil man. Priroda 1,1, no. 4, 1952.	
9. <u>Monthly List of Russian Accessions</u> , Library of Congress,1953. Unclassified.	
9. <u>Monthly List of Russian Accessions</u> , Library of Congress, <del>1953</del> . Unclassified.	







BANGHIKAV, V.M., zast. deyntelf naukt prof., red.; http://www.hut. red; ZALEALS do, A.M., doktor med. nauk, root: KaleffillVL, Yell., prof., red.; igvillSkaYA, d.b., contor med. nauk, red.; dokHLIN, L.L., prof., ref.; SNEGIESV, 1.1., red.

> [Collection of scientific works dedicated to the 190th anniversary of the Hospital] Stornik nauchnykh trudov, posviashchennyi 190-letiiu bol'nitsy. Fod obshchei red. V.E. Banshchikova i N.N.Srylovci. Moskva, 1963. 487 p.

(Mida 17:7) 1. Noscow. Frikhonevrologicheskaya gorodskaya bol'nitsa No.3.

DUX-1

WWITSKI, A. S.
1. Udar pri posadke glurosamoleta. HI. O maksimalinykh davleniakh na dnishche s vormutjed uchastkani. IH. Dopolneie k rakote Vagner: po udaru i glissirovaniu. Pochva, 1935. 31 p., olagra. (28A3L. Trudy, no. 199)
Title tr.: I. Impact of a seaglane at landing. H. Faximum pressures on the problem of a seaglane. IH. Addendum to Vagner's paper on the problem of invact and gliding of seaglanes. (28911.765 no. 199)
S0: feronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

POVITSKI¥, 7. S. Posadka gidrosaroletov. Hoskva, 1939. 83 p., plates, diagrs. (TSAM. Trudy, no. 423) Bibliography: p. 53. Title tr.: Landing of water-borne aircraft. QA911.N65 No. 423 SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of F Congress, 1955.

NUMBER OF THE OWNER OF THE OWNER

SOV/147-58-4-5/15 AUTHOR: Povitskiy, A. S. Oscillations of an Elastic Plate in Liquids (Kolebaniya uprugoy plastinki v zhidkosti) TITLE: PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya tekhnika, 1958, Nr 4, pp 30-35 (USSR) ABSTRACT: The two-dimensional problem of an oscillating elastic plate is discussed, the plate being either of a constant or of a variable thickness and in contact with the free surface of the ideal liquid (the case of a submerged plate may be obtained from the above by a duplication of the corresponding coefficient), Only free natural frequencies are considered, and especially the first mode of oscillation. In accordance with the Hamilton Principle, the motion of the system consisting of the plate and the liquid proceeds in such a way that the integral of Eq (1) has a stationary value (where T is the kinetic energy of the system and U is its potential energy). Denoting by  $T_1$ , the energy of the plate and by  $T_2$  the energy of the liquid and taking the origin of the coordinates at the centre of the plate (of a width 2a), the integral Care 1/4 relations for  $T_1$ ,  $T_2$  and U are obtained as shown on p 31,

Oscillations of an Elastic Plate in Liquids 307/147-58-4-5/15 where: u(x,t) - deformation of the plate,  $\varphi(\mathbf{x},\mathbf{y},\mathbf{t})$  - velocity potential of the liquid due to oscillating plate, - density of the plate (in general  $e_1 = e_1(x)$  $e_1$ 9 2 - density of the fluid, - thickness of the plate (in general h = h(x), - Young Modulus. - Second moment of the area (in general I = I(x), E Ι S and n - contour bounding the expanse of liquid and the normal to it respectively. Dots denote time derivatives and dashes axial derivatives, As shown in Ref 1, Eqs (2) give relations between the velocity potential p and the deformation of the plate u, where  $\gamma_1$  and  $\gamma_2$  are some constants determined from conditions  $\varphi = 0$  at y = 0, |x| > a, and from the circulation around the plate. For purely periodic motion of frequency  $\omega$ , Eq (4) holds true, hence by Eqs (4) and (2) Card 2/4 we get Eq (5). Taking now the time interval  $t = t_0$  equal

Oscillations of an Elastic Plate in Liquids SOV/147-58-4-5/15  $\frac{21}{10}$ , by Eq (1) relations (6) and (7) are to the period derived from which, since  $\delta L = 0$ , there follow n - linear homogeneous equations of the type:  $\frac{\partial^{5} k}{\partial t} = 0.$ The roots of these equations give the approximate values of the frequencies of the system. The author then considers in some detail the case with the symmetric boundary conditions when X, is a plynomial of the fourth order and gives the results in the form of a table on p 34. Column one gives the type of the end fixing of the plate column two - the polynomial X (in all these cases  $b_1 = b_2 = \dots = b_n = 0$  only  $b_0 \neq 0$  hence there is only  $X_0$ ; column three gives the boundary conditions and column four the circular frequency  $\omega^2$ ; k is the elasticity of the supports (no rotation is possible). (There is a misprint in this article: the formula at the top of p 35 should be at the bottom of the column 4 of the It is seen from the Table that the effect of the fluid Table on p 34). Card 3/4

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SUV/147-58-4-5/15 Oscillations of an Elastic Plate in Liquids exhibits itself by an additional term which can be interpreted simply as an additional mass attached to the plate; the magnitude of this additional mass  $(\mu)$  depends upon the type of end fixing of the plate so that the effective mass (the sum of the mass of the plate m and the additional mass u) also varies with the type of the end fixing, From the last formula of column 4, one can obtain the value of the circular frequency of the axial oscillations by putting EI -> ~ , There are 1 table and 1 Soviet reference. ASSOCIATION: Kafedra Aeromekhaniki samoleta (Chair of Aeromechanics of Aeroplanes) Moskovskiy aviatsionnyy institut (Moscow Institute of Aeronautics) SUBMITTED: February 18, 1958 Card 4/4

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69315 s/147/60/000/01/004/018 E031/E535 J*I*).**7**000 A.S. AUTHOR: Povitskiy, The Equilibrium Temperature of Slender Bodies in TITLE: Supersonic Flow PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya tekhnika, 1960, Nr l, pp 35-42 (USSR) ABSTRACT: In this paper the corrections are discussed which must be made to the heat transfer coefficients of a flat 76 plate in order to apply them to thin wedges and cones at high supersonic velocities. First of all, an approximation is introduced for the heat transfer coefficient of a flat plate. From this the effect of the shape of the body on the heat flow can be expressed in the form of a factor. The expression obtained for the heat flow is used to reduce the determination of the equilibrium temperature to a single graph, which is given in the paper. It is assumed that for slender bodies the effect of compressibility on heat transfer Card 1/6 is expressed by the variation of the density and viscosity

69315 s/147/60/000/01/004/018 E031/E535 The Equilibrium Temperature of Slender Bodies in Supersonic Flow in the boundary layer, neglecting the effect of compressibility on the structure of the latter. An expression is found for the effect of Mach number on the boundary layer and of a flat plate and this is replaced by a simple empirical expression involving the concept of equivalent temperature, which is a linear combination of the wall temperature, the temperature on the edge of the boundary layer and the stagnation temperature. Both laminar and turbulent boundary layers are considered and the weights in the linear combinations differ in each case, both being derived from experiment. The results obtained so far are now applied to slender bodies, a wedge, thin profile, slender cones and slender bodies of revolution being specially considered. Finally, the determination of the radiation equilibrium temperature Starting with the approximate is discussed. expressions for the flat plate (Eqs 1 and 2), and assuming that the compressibility phenomena result Card 2/6

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The Equilibrium Temperature of Slender Bodies in Supersonic Flow

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only in the change of density and velocity of the gas inside the boundary layer (this is true in the case of a flat plate everywhere, while for the slender bodies it breaks down in the regions of strong interaction between the shock wave and the boundary layer, i.e. near the nose of the body), Eq (3) is derived in which the expression in square brackets denotes the effect of the Mach number M on the boundary layer. Employing now the fact that pressure across the boundary layer is constant and adopting the approximate variation of viscosity with temperature, Eq (4) is obtained. The effective temperature is the function of the temperature of the wall (T\_,), stagnation temperature  $(T_r)$  and the temperature at the outer edge of the boundary layer  $(T_5)$  as given by Eq (5) in which a,b and c are some constants. (This equation is equivalent to the corresponding relations given by Karman, Tekker, Young, Rubezin and others). The constants are determined by applying Eqs (3) to (5)

Card 3/6

69315 s/147/60/000/01/004/018 E031/E535 The Equilibrium Temperature of Slender Bodies in Supersonic Flow to the flat plate and utilizing Eq (6). The experiments and more accurate formulae (Ref 1) confirm that it may In Fig 1 the graphs of be taken that a:b:c = 4:3:2. Eq (5) with the above values of a, b and c are compared with the corresponding more exact relation based on Karman's similarity principle (Ref 1), while Fig 2 relates the experimental data available with the relation of Eq(6) and a similar relation of Ref 2. Agreement is quite satisfactory. As seen from this figure, even if it is assumed that a=b=c (full line in the graph) the result does not differ much from the experimental data. The above results apply to the case of the boundary layer being turbulent; when the boundary layer is laminar the coefficients will be a:b:c = 0.27: Hence the approximate coefficients of heat 0.55:0.18. transfer for the case of the flat plate are given by Eq (7) when the boundary layer is turbulent and Eq (8) when the boundary layer is laminar. For the case of slender thin bodies (wedges, cones, profiles etc.), Card 4/6

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69315 S/147/60/000/01/004/018 E031/E535 The Equilibrium Temperature of Slender Bodies in Supersonic Flow with the turbulent boundary layer it is given by Eq (14) and when the boundary layer is laminar, Eq (15) holds. The graphs of these relations are shown in Figs 5 and 6 respectively, the ordinates in these graphs being as defined by Eqs (17) and (18), respectively. There are 6 figures and 5 Soviet references (one is a translation of an English textbook). ASSOCIATION: Kafedra aeromekhaniki samoleta, Moskovskiy aviatsionnyy institut (Chair of Aircraft Aeromechanics, <u>Moscow Aviation Institute</u>) SUBMITTED: July 30, 1959 Card 6/6

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AUTHO	R: <u>Povitskiy, A. S.; Lyubin, L. Ye.</u>	$\frac{1}{2}$ conditions	GZ.
SOURC	E: Kosmicheskiye issledovaniya, v. 3, no. 5	weightlessness	
ABSTF (bubb ered. of Bo lish char- time Bond favo	ACT: The effect of near-zero and zero gravi- bling process) in a flow of gas injected into Flows of gas into stationary and moving lique ond and Weber numbers under conditions of wei- ed under which the bubbles may break away fre- acterizing the process, the ratio D/d where of breaking away and d the diameter of the number. The analysis shows that the absent rable direction of g forces can be compensat dific conditions. The interaction between a ble, that is, between pulsating and oscillations g Zhukovskiy's method for solving the Bjerkr	ty on the process of bub o a liquid through a tube nids are analyzed for var ightlessness. Conditions om the tube. The main pa D is the diameter of a but tube, is expressed in ter tube, is expressed in ter of mass forces and eve ed by the motion of the t forming bubble and an all	are estab- irameter ubble at the cms of the en the un- fluid under ready detached evaluated by
and	25 formulas.		t
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	<i><b>4</b></i>	
AUTHOR: Lyubin, L. Ya. (Hoscow); Pov	ritskiy, A. S. (Hoscow) B	
ORG: none		
TITLE: Oblique impact of a solid boo	iy on soil	
SOURCE: Zhurnal prikladnoy mekhanik	i i tekhnicheskoy fiziki, no. 1,	
1966, 83-92		
1966, 83-92 TOPIC TAGS: impact, soil mechanics,	soil impact deformation	
ABSTRACT: The oblique impact on a s a parabolic (plane problem) or parab body is reviewed. The soil is assum	ad canable of significant	
density change during compaction medium in which uniaxial deformation	is governed by the piecewise- dered, it is assumed that before	
linear law. In the first case const impact the body does not rotate, and	during penetration angular	
acceleration is negligibly small, a	doed are five stages into which	
moment is significantly great. Out soil deformation can be divided when normal to the soil surface is suffic	i the initial-velocity component iently large. Various stages	
normal to the soll collect of		2

L 21183-66 AP6009052 ACC NRI D are discussed, and formulas are derived to described them and their formation in terms of a plane problem. Expressions for an axisymmetric body are derived analogously. Orig. art. has: 4 figures and {LB] 40 formulas. ÷., ATD PRESSI SUB CODE: 08. 06Ju165/ SUBM DATE: ORIG REF: 20/ 008/ Card 2



FRANCIENKO, V. B., POVITSKIY, N. S. and SOLOVKIN, A. S.

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"Some Features of Processing Irradiated Fuel Elements at the First Atomic Power Station in the U.S.S.R"

peper to be presented at 2nd UN Intl. Conf. on the pesceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

	78-1-40/43
AUTHORS:	Povitskiy, N. S., Solovkin, A. S., Shilin, I. V.
TITLE:	Extraction of Perchloric Acid With Tributyl Phosphate (TBPh) (Ekstraktsiya khlornoy kiąloty tributilfosfatom)
PERIODICAL:	Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 1, pp.222-224 (USSR)
ABSTRACT:	The second author proved (reference 1) that with zirconium- -extraction from perchloric acid containing solutions HClo passes over in analyzable quantities. Their complex-formation with TBPh was worth investigating in view of their application for the maintenance of a constant ionic density. Perchloric acid was extracted from water by TBPh solution in benzene or petroleum. The phases were equal with all tests (23 ml). The equilibrium was attained within 10 to 15 minutes. In tests on the distribution of perchloric acid between water and 3,67 mol TBPh it was found that with increasing concentration of HClO, in the initial solution the quantity passing over into
Card 1/3	TBPh <sup>4</sup> increases also (table 1). With the mixture of the phases

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78-1-40/43 Extraction of Perchloric Acid With Tributyl Phosphate (TBPh) an exothermic reaction takes place which is most intensely in the case of stronger acid solutions (table 1, test 6). It was tried to compute the equilibrium constant of the reaction of complex-formation of  $HClO_4$  with TBPh  $(K_1)$ , from the obtained results. It is shown in table 1 that  $K_1$  is variable within vast limits. This is apparently achieved by the ionic density of the solution which fluctuates under the influence of the changes of concentration of the acid. With a constant ignic density K<sub>1</sub> remains sufficiently constant  $(6,7 \pm 0,5) \cdot 10^{-2}$ . In this case the equilibrium constant of the reaction of complex formation of HNO<sub>3</sub> with TBPh(K<sub>2</sub>) amounts to 0,16  $\pm$  0,01 (table 2). The K\_-value is neither changed by using solutions which are diluted by benzene or petroleum, if the ionic density of the solution is preserved ( $\sim$ 3) (table 3, 4). The value of K<sub>2</sub> increases with diluting the TBPh-solutions up to 0,22 + 0,02 (little different from references 3 to 6). It is noticeable that the TBPh-dilution with petroleum lead to the formation of a third phase after the extraction if the HNO<sub>z</sub>-content in the initial solution was small, compared with that of HClO, (table 4, test 1). The light organic phase  $(d^{250} = 0,750)$  is Card 2/3formed of elmost pure petroleum with only a small admixture

\*APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342
 \* Extraction of Perchloric Acid With Tributyl Phosphate (TEFn)
 of TBPh and contains no HCl0. The heavy organic phase (d<sup>25°</sup> = 1,001) is a solution of HCl0. TBPh in TBPh. The third phase appears also with the mixtures<sup>4</sup> of 0,49 n HCl0<sub>4</sub> with 0,25 mol TBPh in petroleum. The heavy organic phase dissolves in petroleum after HCl0, was re-extracted in water. It is not formed with the TBPh-dflution with bearsen. There are 4 tables, and 7 references, 4 of which are Slavic.
 SUBMITTED: May 22, 1957
 AVAILABLE: Library of Congress

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A. The state of the

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AUTHÖRS:	SOV/78-3-9-16/38 Shevchenko, V. B., Povitskiy, N. S., Solovkin, A. S., Shilin, I. V., Lunichkina, K. P., Tsvetkova, Z. N.
TITLE:	The Extraction of Nitric Acid With Tributyl Phosphate (Ekstraktsiya azotnoy kisloty v tributilfosfat)
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 9, pp 2:09-21:2 (USSR)
ABSTRACT:	The distribution of nitric acid between the aqueous and the organic phase containing tributyl phosphate in dependence on the aqueous phase and the nature of the solvent of tributyl phosphate was investigated. From the results may be concluded that K considerably depends on the nature of the solvents of
	tributyl phosphate. The influence of the nature of the solvents on the distribution of nitric acid between water and tributyl phosphate was investigated in the case of an ionic strength of the solution of 1, 0,5 and 3. The maximum value of K in
Card 1/2	nitric acid solution with the ionic strength of 3 is obtained if toluene is used as solvent for tributyl phosphate. The change of $K_p$ by the nature of the solvent in the case of an

SOV/72-3-9-16/3 The Extraction of Nitric Acid With Tributyl Phosphat ionic strength of 3 is to be divided as follows: toluens, benzene, kerosene, CCl\_F-CCl\_F, CCl\_4. The following variation of the above sequence takes place if the ionic strength is reduced to 1: kerosene, toluene, benzene, CCl\_F-CCl\_F, CCl\_4. Comparative investigations of the extractions in HClO<sub>4</sub> and HNO<sub>5</sub> solutions showed that the complex HClO<sub>4</sub>. TBPh is to a greater extent polar than the complex HClO<sub>4</sub>. TBPh is to a greater extent polar than the complex HClO<sub>4</sub>. TBPh. There are 2 figures, 1 table, and 9 references, 4 of which are Soviet. SUBMITTED: August 3, 1957 Card 2/2

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 $(\hat{L})$ • 11 for the sov/5084 İ PHASE I BOOK EXPLOITATION International Conference on the Peaceful Uses of Atomic Energy. 2d, Geneva, 1958. Doklady sovetskikh uchenykh. [t.4] Knimiya radioelementov i radiatsionnykh prevrashcheniy (Reports of Soviet Scientists. v. 4.: Chemistry of Radioelements and Radiation Transformations) Moscow, Atomizdat, 1959. 323 p. 8,000 copies printed. (Series: Its: Trudy) Ed. (Title page): A. P. Vinogradov, Academician; Ed.: V. I. Labaznov; Tech. Ed.: PURPOSE: This collection of articles is intended for scientists and engineers interested in the applications of radioactive materials in science and COVERAGE: The book contains 26 separate studies concerning various aspects of the chemistry of certain radioactive elements and the processes of radiation effect on matter. These reports discuss present-day methods of reprocessing irradiated nuclear fuel, research in the chemistry of mercury, thorium, uranium, plutonium, and americium, problems related to the sorption and bury-\_Card 1/9 --- V. Ukraintsev, Skaya. Separation of Uranium and Plutoy Extraction With a Mixture of Dibutyl Clark DP86-00513 APPROVED FOR RELEASE: Tuesday, August 01, 2000 77 34

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5(4) 507/78-4-6-40/44 Solovkin, A. S., Povitskiy, N. S., Shilin, I. V. AUTHORS : On the Influence of the Nitrates of Barium, Nickel, Cobalt, TITLE: and Copper on the Extraction of Nitric Acid in Tributyl Phosphate (TBP) (O vliyanii nitratov bariya, nikelya, kobal'ta i medi na ekstraktsiyu azotnoy kisloty v tributilfosfat (TBP)) PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1454 - 1456 (USSR) The distribution of nitric acid between the aqueous and in-**ABSTRACT:** organic phase of the solution of TBP in kerosene was investigated in the presence of barium-, nickel-, cobalt-, and copper nitrates in the case of an ionic strength of the aqueous phase of 1 and 1.5. The results are summarized in a table and given in figures 1 and 2. The nitric acid extraction in the organic phase increases with the rise of the ionic strength in the solution. A low distribution coefficient of the nitric acid is obtained by the use of barium nitrate as salting-out compound. The same effect is obtained by cobalt-, nickel-, and copper Card 1/2nitrates as salting-out compounds in the case of the nitric



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AUTHORS :	Solovkin, A. S., Povitskiy, N. S., Lunichkina, K. P.
TITLE:	Formation of the Third Phase in the System $10_2(NO_3)_2 - HNO_3 - H_2O - Tri-n-butyl Phosphate - "Kerosene"$
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 9, pp. 2115-2118

TEXT: The formation of a third phase of the system mentioned in the title was investigated. The uranium content was gravimetrically determined, and the tributyl phosphate content in the organic phase (after separation) was colorimetrically measured with a  $C \Phi - 2H(SF-2)$  spectrophotometer. All experiments were conducted at room temperature. It was found that the formation of a third phase was independent of the concentration of uranyl nitrate (at sufficiently high acidity) (Table 1). A decrease of acidity below a certain point leads, also in the presence of large amounts of uranyl nitrate, to the vanishing of the third phase (Table 2). Absorption spectra (recorded by L, V, Lipis) showed that uranium appeared in the organic phase as neutral, non-ionized molecules  $UO_2(NO_3)_2$  solvated with Card 1/2



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100 million (100 million)			
		<b>s/</b> 078/61/006/002/015/017 B017/B054	
	AUTHORS:	Tavetkova, Z. N., Solovkin, A. S., Povitskiy, N. S., Davydov, I. P.	
	TITLE:	Mechanism of Extraction of Zirconium Nitrate by Means of Tri-n-butyl Phosphate From High-acidity Solutions	
	PERIODICAL:	Zhurnal neorganicheskoy khimii, 1961, Vol.6, No. 2, pp. 489 - 492	
	tions and tri	stribution of many heavy metals between nitric acid solu- n-butyl phosphate (TBP) takes place according to the	V 1.
	$M^{x+} + xNO_{3}^{-} +$	$nTBP \implies M(NO_3)_{x}TBP,  M^{x+} = UO_2^{2+}, NP_2^{2+}, PuO_2^{2+}, NP_4^{4+}, Pu^{4+}, Pu^{5+}$	
	The extraction	on of Am <sup>3+</sup> , Th <sup>4+</sup> , Cr <sup>4+</sup> and the rare earths from highly con- tric acid solutions does not take place according to the on. The extraction coefficient grows with rising acidity of	
	Card $1/3$		1

CIA-RDP86-00513R001342 "APPROVED FOR RELEASE: Tuesday, August 01, 2000

Mechanism of Extraction of Zirconium Nitrate by Means of Tri-n-butyl Phosphate From High-acidity Solutions

**5/078/61/006/002/015/017** B017/B054

the solution. To explain the extraction mechanism of zirconium nitrate with tributyl phosphate from high-acidity solutions, the authors studied the effect of the hydrogen ion concentration on the extraction coefficient. The extractions were conducted by the method described by A. S. Solovkin (Ref. 3). Carbon tetrachloride was used as solvent for tributyl phosphate. The zirconium concentrations were determined with the aid of the radioactive isotope  $2r^{95}$ . Results are given in Figs. 1 and 2. The authors discussed the possibilities of increasing  $\alpha_{\rm Zr}^{}$  by changing the hydrogen ion concentrations. It is assumed that the extraction of  $Zr(NO_3)_4$  with the organic phase occurs as  $2r(NO_3)_4 \cdot 4(HNO_3) \cdot TBP$  and  $2r(NO_3)_4 \cdot 2(HNO_3) \cdot TBP$ . Fig. 2 shows  $\alpha_{7}$  as a function of concentration. The presence of zircanium acido complexes in the aqueous phase hardly influences the extraction coefficient. There are 2 figures, 2 tables, and 8 references: 6 Soviet and 2 US.

Card 2/3

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CIA-RDP86-00513R0013427









BARRY YER STRUCTURE

SOLOVKIN, A.S.; TSVETKOVA, Z.W.; POVITSKIY, N.S.

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Study of complex formation of zirconium with 4 and  $\beta$ -aminopropionic acids in nitric acid solutions by a method involving extraction. Zhur.neorg.khim. 7 no.4:937-939 Ap '62. (MIRA 15:4) (Zirconium compounds) (Propionic acid)

EXCENT: For

35081 s/704/61/000/002/004/006 b201/b302

9.7910 AUTHOR: Povitskiv, O.V., Engineer

TITLE: A reproducing magnetic head with magnetic amplification

TITLE: A reproducing mighter: SOURCE: Ukraine. Gosudarstvennaya planovaya komissiya. Institut avtomatiki. Avtomatizatsiya i priborostroyeniye; sbornik nauchnykh trudov, no. 2, Kiyev, 1961, 88-96

TEXT: The author describes a highly sensitive modulated magnetic head (MMH). The recorded signal is reproduced by two standard permalloy cores: with their ends cut-off at 2/3 of the distance from the tape end. A thin ferrocast - 2000-II toroid on an insulated base is placed on top of the cores. The toroid has two excitation windings  $L_1$  and  $L_2$ , which together with the capacitors  $C_1$  and  $C_2$  and a variable resistor  $R_{bal}$  form an AC bridge. Two subsidiary windings are placed on the two cores:  $L_{imit}$  and L record which are used for recording the signals and for applying a small a.c. current initiating the reproduced signal. The head circuit forms

Card 1/4

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A reproducing magnetic head with "...

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a miniature magnetic amplifier, in which the control flux is produced not by the control windings, but is introduced into the core during reproduction of the recorded magnetic signal. The high reproduction efficiency of the head is achieved by use of a highly sensitive half-wave linear magnetic signal voltage amplifier with second harmonic output, an internal positive feedback and the use of ferrite as the saturating magnetic material. The amplifier is designed as a resonant bridge circuit with a three-limb core. The magnetic flux from the reproduced signal passes through the toroid in one direction from one reproducing core to another. The excitation windings  $(L_1 \text{ and } L_2)$  are connected so that the excitation

flux in the toroid closes on itself in a circle. In the absence of the signal the bridge circuit is balanced for the minimum of the output veltage. During reproduction of magnetic recording, the excitation flux adds to that of the signal in one of the arms of the core (\*) and substract from it in the other (-). The excitation is chosen so as to be near the saturation of the head core. During the process of summing of the magnetic fluxes, the saturation occurs somewhat earlier in the arm of the bridge in

Card 2/4

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A reproducing magnetic head with ...

which at the given instant the direction of fluxes is the same. As a result asymmetrical non-linear distortions of the magnetic flux appear in each of the core limbs, i.e. even harmonics, shifted by 180, are developed in the bridge arms. The difference magnetic flux circuit is completed by the middle limb and the e.m.f. induced by the latter, in  $L_1$  and  $L_2$  is the useful part of the head output, voltage. This voltage is detected by an amplitude detector (semi-conductor diode A, 7E (D7Ye);  $R_f$  and  $C_f$ ) and is

then applied to either an amplifying or shaping circuit. The resonance tuned bridge and the special properties of the excitation circuit make it possible to obtain a high head arc as follows: Modulator - ferrocast 2000-II, dia 21/11 mm; height - 0.5 mm. Excitation windings 2 x 800 turns of  $\Pi \ni \Re$ -0.07 (PEL-0.07); recording winding 2 x 250 turns of PEL-0.1; gap - 15 microns; capacitors - 470 OpF; balancing resistor 430 ohms; W excitation frequency  $f_{exc} = 13.9$  kc/s; excitation voltage 22.3 V; the D7Ye diode with the highest reverse resistance. The signal frequency range reproduced by a modulated magnetic head is a max. 20% of that of the

Card 3/4

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carrier, the fundamental carrier frequency being the second harmonic of the excitation voltage 20-30 kc/s. This range is in practice narrower, owing to the distortion at low recording speeds inherent to magnetic recording. The actual efficiency of reproduction is irrespective of its limitations, we several hundred times better than that of earlier systems and permits considerable simplification of the associated circuitry, improving the instant terference-suppressing properties of magnetic recording and opens new possibilities in application. There are 6 figures and 10 references: 8 Semiviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: L.M. Ferber, IRE national conventional Record, 1958, v. 6, no. 4; D.E. Wiegand, Frontier, v. 17, no. 4.

Card 4/4

CIA-RDP86-00513R001342

MALYUCHKOV, O.T.; POVITSKIY, V.A.

HICE SHE

Investigation of transition metal borides and pure boron by nuclear magnetic resonace. Porosh.met. 2 no.4:26-34 J1-Ag '62. (MIRA 15:8) 1. Moskovskiy institut stali. (Borides) (Boron) (Nuclear magnetic resonance and relaxation)

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MALYUCHKOV, O.T.; POVITSKIY, V.A.

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Investigating CrB, LaB<sub>6</sub> and crystalline boron by the method of nuclear magnetic resonance. Fiz. met. i metalloved. 13 no.6:933-934 Je '62. (MIRA 15:7)

1. Moskovskiy institut stali. (Borides) (Nuclear magnetic resonance and relaxation)

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MALYUCHKOV, O.T.; POVITSKIY, V.A.

Investigating transition metal borides by means of muclear magnetic resonance. Fiz. met. i motalloved. 13 no.5:676-680 My 162. (MIRA 15:6)

1. Moskovskiy institut stali. (Transition metals) (Nuclear magnetic resonance and relaxation)

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L 9043-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pab-24/Pt-10 IJP(c)/RAEM(t)/AS(mp)-2 ACCESSION MR: AP4042935 S/0057/64/034/008/1465/1465 AUTHOR: Povitskiy, V. A.; Tearapayev, A. I. TITLE: Possibility of constructing a permanent-magnet microtron 17 SOURCE: Zhurnal tekhnicheskoy fiziki, v. 34, no. 8, 1964, 1462-1465 TOPIC TACS: microtron magnetic system, permanent magnet, magnet temperature stability ABSTRACT: The possibility of using modern magnetically hard materials for con- structing a microtron magnetic system is discussed. Since the relatively higher restructure of a microtron magnetic system is discussed. Since the relatively higher structure of a microtron magnetic system and to reduce its weight 2-4 times, structure of a microtron magnetic microtron becomes simpler and more reliable, the operation of a permanent-magnet microtron becomes simpler and more reliable, the operation of a permanent-magnetic field can be controlled by shunting the microtron, the intensity of its magnetic field can be controlled by wharding the microtron the intensity of its magnetic field can be achieved by the ad- conditions for-electron acceleration in the microtron can be achieved by the ad- conditions for-electron acceleration in the microtron can be achieved by the ad- conditions for-electron acceleration in the microtron can be achieved by the ad- structure of the h-f field frequency and amplitude. The high temperature stability istement of the h-field frequency and amplitude.	
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of magnetic alloys provides a st	eady election	on energy	during the	change of	ambient	
temperature. The experiments we for 5 Mev. The design of such a and there is a strong possibility source for biological and physica	<b>QEVICE</b> here	been cons	iderably si	mplified,	housver,	n
ASSOCIATION: none						
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BICLETTICS INSPERIMENTS SECTORS AND IS

24.7900	39766 S/126/62/013/006/015/018 E202/E492	
AUTHORS:	Malyuchkov, O.T., Povitskiy, V.A.	
TITLE:	Nuclear magnetic resonance study of CrB, LaB <sub>6</sub> and crystalline boron	
PERIODICAL:	Fizika metallov i metallovedeniye, v.13, no.6, 1962, 933-934	
allotropes in powder f ll mm diame described b Metallurgiy constant b filled b = filled b = two electro anisotropic Frequency s	signal from B <sup>11</sup> was observed in CrB, LaB <sub>6</sub> and three of B; all samples were 99% pure, the compounds being orm $< 72\mu$ , and B in pressed cylinders of ter and 22 mm height. The radiospectrometer used was y 0.T.Malyuchkov and V.S.Pavlovskaya (NDVSh, a, no.3, 1958, 231). In CrB, the quadrupole bond = 72 + 7 kcs, but when one or two p-levels of B were 4700 kcs, and when all three 2p-levels were evenly 0. In the b.c.c. LaB <sub>6</sub> , each La atom must transfer ns to the B <sub>6</sub> octahedron while the B - B bond is highly consequently giving more distorted line than CrB. hifts were determined viz. parallel 6.7 x 10 <sup>-4</sup> and ar 16 x 10 <sup>-4</sup> from the resonance frequency and	Ţ
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s/126/62/013/006/015/018 E202/E492 Nuclear magnetic resonance ... First Boron sample comprises 50 to 60% v/v b = 50 + 10 kcs.amorphous phase, while second and third contained the a- and  $\beta$ -rhombohedral modifications. The degree of amorphousness was Ţ determined from the background intensities of X-ray diffraction photographs at low scattering angles. All three Boron samples gave low intensity NMR spectra with the absorption spectrum consisting of a narrow central line with wide, gradually falling-off wings, the width of the latter differing in each sample. There is 1 figure. ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute) August 5, 1961 (initially) SUBMITTED: December 12, 1961 (after revision) Card 2/2

Paris	TEKYMeL.	
SUBJECT:	USSR/Flood Conduits	
AUTHOR :	Shtepa, B.G., Engineer, and Povlotskiy, M.Z., Engineer	
TITLE:	"Prefabricated, Prestressed Reinforced Concrete Flood Conduits" Sbornyse livneprovody iz napryazhenno armirovannogo zhelezobe- tona).	
PERIODICAL:	"Gidrotekhnika i Melioratsiya", 1957, # 7, pp 24-28, (USSR)	
ABSTRACT :	Flood conduits across canals are built of reinforced concrete, and are generally either trough or tubular shaped. Prepara- tion of designs for the building of prefabricated flood conduits will enable to mechanize and speed up installation, as well as effect considerable savings at construction costs. The aqua- duct designed by the authors has a capacity of 2.5 cu m/sec, a cross section of 0.51 square meters, and a difference of levels between the upper and lower pools of 2.7 m. The structu- re consists of a total of 97 concrete blocks of 6 different types. The prestressed units are manufactured by means of hydraulic jacks of the type TSNIS MPS (UHM( MAC) with a capa- city of 60 tons or the conventional hydraulic jack DG-100 ( $\Pi$ (-100) with the special stressing attachment DORNII ( $\Pi$ OPHMM)	
Card $1/2$		

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TITLE: "Prefabricated, Prestressed Reinforced Concrete Plood Conduits" sbornye livneprovody iz napryazhenno armirovannogo zhelezobe- tona). Considerable savings in metal and cement can be made by using prestressed prefabricated reinforced parts. The article contains 2 figures and 1 table, and lists 1 reference (Slavic). ASSOCIATION: PRESENTED BY: SUBMITTED: AVAILABLE: At the Library of Congress.	"APPRO\	ED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R00134
Shornya livneprovody iz napryazhenno armirovannogo zhelezobe- Considerable savings in metal and cement can be made by using prestressed prefabricated reinforced parts. The article contains 2 figures and 1 table, and lists 1 ASSOCIATION: PRESENTED BY: SUBMITTED: AVAILABLE: At the Library of Congress.		
Considerable savings in metal and cement can be made by using prestressed prefabricated reinforced parts. The article contains 2 figures and 1 table, and lists 1 reference (Slavic). ASSOCIATION: PRESENTED BY: SUBMITTED: AVAILABLE: At the Library of Congress.	TITLE:	"Prefabricated, Prestressed Reinforced Concrete Flood Conduits" Shornya livneprovody iz napryazhenno armirovannogo zhelezober
ASSOCIATION: PRESENTED BY: SUBMITTED: AVAILABLE: At the Library of Congress.		Considerable savings in metal and cement can be made by using
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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013427
3/225/62/005/004/004/012 1003/1203 halyuchkov, U.T. and Povitskiy, V.A. AUTHONS: Investigation of the portues of transition metals and of pure boron TITL: by muchear magnetic resonance Poroshkovaya Letaliar 1962, 1962, 26-34 Print COLUME: In order to investigate the nature of the chemical bonds of the above components, isomorphic diborides of Ti, ur, ab, Ta, Cr, Mo\_B, CrB, LaB, , and three differ-ent samples of pure boros were investigated by an X-ray spectrometer. The investigations were carried ent in a magnetic field with an intensity of 5030 cersted and a frequency of 6860 nc. A formula is given for the calculation of the gradient of the electric field at the site of the muleus: (3) cleatric field at the site of the hadrons.  $(g = \sum /\psi/2 \{(36s^2 g : -1) = -3\}dt$ Elements with complete substicity (Sn, Po, Hg, Cd, Au, As etc.) do not form borides. In diboriues as in monocarbides and monomitrides, the d-shell of the transition metal is complete. There are 5 figures. Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-0

CIA-RDP86-00513R0013427



1.19 s/126/62/013/005/006/031 E202/E492 Malyuchkov, O.T., Povitskiy, V.A. AUTHORS: Nuclear magnetic resonance studies of transitional TITLE: metal borides PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.5, 1962, 676-680 Diborides of Ti, Zr, Nb, Ta and Cr, and also Mo2B5 were The NMR signal from B<sup>11</sup> was observed at 6866 kcs in a TEXT: magnetic field of 5030 oersted, using an RF spectrometer previously described. The field nonuniformity within the 2 cm<sup>3</sup> sample did not exceed 0.1 oersted. approaching stoichiometric composition. In all the compounds X-ray phase analysis showed the presence of single phase. The quadrupole bond constant B1 was measured from the distance of the two satellite lines and the (strong) central line. for CrB2 and Mo2B5, the satellites were observed directly; in the case of  $CrB_2$ , the secondary effects of the strong quadrupole interaction made the value of B very inaccurate. The satellite of Mo2B5 was not found in the range 0 < B < 200 kcs, Card 1/3

Nuclear magnetic resonance ...

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s/126/62/013/005/006/031 E202/E492

hence only a very approximate value was given. Experimental values of the authors are compared below with those calculated by C. Townes and B.Daily (J. Chem. Phys., v.17, no.3, 1949, 782).

		_				CrB <sub>2</sub>	And and an owner where the second
Bexp	kcs	127 <u>-</u> 13	84 <u>+</u> 8	30 <u>-</u> 3	114 <u>+</u> 11	900 <u>+</u> 300	$300 \pm 300$ $\pm 100$
B <sub>calc</sub>	kcs	175	58	46	68	542	473

The authors studied also the change in the physical properties when a boride is formed from the respective metal and when one metal replaces another in the boride molecule. The former reaction was attributed to the filling of the incomplete d-shell. This formation is responsible for a negative Hall constant, lowering the probability of the s-d transitions and making the s-electrons participate in the conductivity. With the gradual filling of the d-shell the modulus of the Hall coefficient also decreases and the interatomic bond boron-metal weakens, which Card 2/3



HIGHLINGHT

6.2145 4.4300		39222 S/207/62/000/003/001/016 I028/1228		
AUTHOR	Lyubin, L. Ya. and Povitzkiy, A. S. (Moscow)			
TITLE:	Motion of gas bubles caused by pressure fluctuations in forces	the liquid in the absence of mass		
PERIODICAL:	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, n	o. 3, 1962, 3-9		
- I to the en	er extends the Bjerkness-Zhukovskiy analysis of the force e of motion of gas bubbles caused by pressure fluctuation	s. The translational motion of two	L	
gas bubbles, susp pressure p(t), is e	ended in a liquid occupying a spherical volume on whose camined. The Lagrangian equations of motion are integrate lifying assumptions and neglecting the mass forces. The re- ontained in a vessel of arbitrary shape, and also to the case	d for the case $p(t) = p_0 + p \sin mt$ esults obtained are extended to the	Ţ	
gas bubbles, susp pressure p(t), is e under some simp case of a liquid o	ended in a liquid occupying a spherical volume on whose camined. The Lagrangian equations of motion are integrate lifying assumptions and neglecting the mass forces. The re- ontained in a vessel of arbitrary shape, and also to the case	d for the case $p(t) = p_0 + p \sin mt$ esults obtained are extended to the	Ţ	

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013427

PETROV, I.T.; POVKH, B.V.; BLIKHARSKIY, B.A.; CHERCOV, V.I. [deceased]; KLITHA, S.Ye.; ROZANOV, Ye.M.; SHUFLAT, A.N.

> Incidence of influenza and acute cararrhs of the upper respiratory tracts in miners of Chervonograd, Lvov-Volyn' Basin. Vrach. delo no.1:105-109 Ja'64. (MIRA 17:3)

> 1. Chervonogradskaya mediko-sanitarnaya chast' kombinata Ukrzapadugeol' (for Petrov, Povkh, Etikharskiy). 2. Kafedra propedevticheskoy terapii lechebnogo fakul'teta - sav. dotsent V.I.Chernov [deceased]) L'vovskogo meditsinskogo instituta ( for Klitina, Rozanov, Shuflat).



## APPROVED FOR RELEASE: Tuesday, August 01, 2000

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DUBOVYY, M.I., assistent; SHCHERBAKOVA, A.K., assistent; POVKH, B.V.; GZHEGOTSKIY, M.I.

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Therapeutic and preventive measures in reducing suppurative diseases among miners of the Lvov coal basin. Vest.derm.i ven. no.9:51--53 '61. (MIRA 15:5)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof. A.A. Shteyn) L'vovskogo meditsinskogo instituta (dir. - prof. L.N. Kuzmenko). 2. Zam. glavnogo vracha mediko-senitarnoy chasti (for Povkh). 3. Glavnyy vrach sanitarno-epidemiologicheskoy stantsii Chervonograda (for Gzhegotskiy). (LVOV-VOLYN' BASIN--COAL MINERS--DISEASES AND HYGIELE)







FINELESSE AND APPENDIX CONCERNS

KIRILLOV, N.I.; ANTONOV, S.M.; POVKH, G.S.; KIR ILLOVA N.Ye.

THE REPORT OF THE REPORT OF THE REPORT OF THE

Accelerated NIKFI processes for the treatment of multilayer photosensitive color materials for motion-picture photography. Part 1.Statement of the problem and order of operations in developed processes. Usp.nauch.fot.no.4:269-280 155. (MLRA 9:4) (Color photography)

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342



5/204/62/002/004/018/019 E075/E435 Beer, A.A., Zagorets, P.A., Inozemtsev, V.F., AUTHORS: Povkh, G.S., Popov, A.I. Radio-chemical telomerization of olefines TITLE: PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 617-623 Additional data are presented on the telomerization between ethylene and carbon tetrachloride, and the reaction between tetrafluoroethylene and isopropylalcohol. conducted in a thermostatically controlled autoclave at 16 to 100 atm pressure in the absence of oxygen. The ethylene - CCl<sub>4</sub> mixture was irradiated with  $\gamma$ -rays from Co<sup>60</sup> with the activity of about 350 g/equiv radium. The activity of the source for the C<sub>2</sub>H<sub>2</sub>F<sub>4</sub> - alcohol mixture was 120 g/equiv radium. The molar ratio  $C_2H_4$  - CCl4 was varied from 0.2:1 to 3.8:1 and the reaction was studied at 20, 50 and 100°C. It was established that the content of individual telomers in the reaction product is given by the following approximate equations  $F_1 = \frac{C_1R}{C_1R+1}$ ;  $F_2 = \frac{C_2R}{(C_1R+1)(C_2R+1)}$ ;  $F_3 = \frac{C_3R}{(C_1R+1)(C_2R+1)(C_3R+1)}$ Card 1/3

Radi-chemical telomerization ...

S/204/62/002/004/018/019 E075/E435

where  $F_{\mathbf{n}}$  is the molar proportion of telomer with n olefine residues,  $C_n$  - the chain transfer constant for the radical leading to the formation of telomer with n olefine residues and R - the molar ratio of telogen to olefine in the reaction mixture. When the ratio is changed from 3.8:1 to 0.2:1, a marked increase in the yield of tetrachloropropane is observed (from 3 to 5% to 63 to 100°C). The results were used in the development of radiochemical plant with an output of 8 kg/hour of tetrachloroalkanes with Co source activity of about 15000 g/equiv radium in a reactor of 0.5 m<sup>3</sup> volume and 800 mm in diameter. Telomerization between  $C_{2H_{2}F_{4}}$  and lower alcohols was studied at room temperature. radio-chemical yield decreases in the series propanol-2 >The butanol-1 > ethanol > butanol-2 > methanol. The reaction conditions were selected so as to eliminate completely the formation of high molecular weight compounds. There are 4 figures and 2 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. Mendeleyava (Moscow Institute of Chemical Technology imeni Mendeleyev)



"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

Herrin, T. 1. USSR/Magineering Turbines--Blades Dynamics "Study of the Blades of Turbine Machines in Static Air Equipment," I. L. Povkh, Cand Tech Sci, LPI imeni Kalinin, 4g pp "Totloturbostroy" No 2 Describes methods used for studies conducted on etatic air experimental equipment to determine effects of operating and control blades, which comprise central assembly. 1/497b8

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342 PA 63/49T21 POVKH, I. L. of pressure distribution curves also revealed \_\_\_\_\_ sons for changes in the total characteristics of nature of flow (expansive or compressive). Analysis the blades. effect of spacing depends to large extent on the of the effective outlet-flow angle. Establishes influence of spacing on pressure dis-tribution, losses, coefficient of leverage, and "The Influence of Spacing on Aerodynamic Char-acteristics of Fixed Turbine Blade Profiles," USSR/Engineering effects of spacing on efficiency and the value Gives results for experimental investigation of I.L. Povkh, Cand Tech Sci, 32 pp USSR/Engineering coefficient of drag of the fixed blade profiles "Kotloturbostroy" No 6 Turbines Blades (Contd) Nov/Dec Concludes that 63/49T21 Nov/Dec: 48 63/49T21 £

CIA-RDP86-00513R0013427

APPROVED FOR RELEASE: Tuesday, August 01, 2000



FOVKH, I. L.

"Cavitation Characteristics of Frofiles". Kotloturbostroyeniye, No 5, pp 17-21, 1953

On the basis of data concerning the distribution of pressure for wing profiles in a flat parallel flow, this article investigates the relation of the value K (coefficient of cavitation) to the coefficient of lift and geometric characteristics of the profile. In the investigation of conditions of cavitation formation in a profile, occurring in a system of infinite lattices, the solution given in the work of F. Liblayn / -Lieblein?-7 (Vopr. rakethoy tekhniki, 1952, No 3, p 9) is used. (RZhMekh, No 8, 1955)

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	<ul> <li>Povkh, Ivan Lukich</li> <li>Aerodinamicheskiy eksperiment v mashinostroyenii (Aerodynamic Experimentation in Machine Building) Moscow, Mashgiz, 1959. 394</li> <li>p. 3,000 copies printed.</li> <li>Reviewer: I. I. Kirillov, Doctor of Technical Sciences, Professor; Ed.: V. V. Bogdanova, Candidate of Physical and Mathematical Sciences; Eds. of Publishing House: N. Z. Simonovskiy and G. A. Dudusova; Tech. Ed.: L. V. Shchetinina; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F. I. Fetisov, Engineer.</li> <li>PURPOSE: The book is intended for engineers and technical personnel in laboratories, scientific research institutes, and design offices. It may also be used by students of schools of higher technical education.</li> <li>COWERAGE: The book deals with aerodynamic experimentation. Des- criptions of experimental wind tunnels and other testing instal- lations, together with such component elements as test sections,</li> </ul>	
	Card 1/9	

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342 SOV/3106 Aerodynamic Experimentation (Cont.) confusers, diffusers, elbows, screens, and honeycombs, are presented. Methods of measuring pressures and velocities of air flow and methods of measuring steady-and unsteady-state parameters of flow and rotating parts are discussed. Electrohydrodynamic and gas-hydraulic analogies are drawn. Part of Chapter VII and other sections of the book dealing with electrical-and radio-engineering measurements were written by Engineer G. V. Smirnov. There are 173 references: 134 Soviet, 25 English, 13 German, and 1 Polish. TABLE OF CONTENTS: 3 Foreword PRINCIPLES OF MODELING AND THE FUNDAMENTALS OF DESIGNING EXPERIMENTAL INSTALLATIONS PART I. 5 5 Theory of Similitude as the Basis for Modeling of Flow General principles of similitude of flow Ch. I. Reynolds number. Transition from laminar to turbulent 1. 9 2. flow Card 2/9

Aerodynamic Experimentation (Cont.) 307/3105 Effect of the Reynolds number on represented 3. The Mach number and its effect on replacement 7) 4. 5. Euler and Strouhal numbers 6. Prandtl number and the exponent of the isentropic curve 7. Froude number and other numbers of similitude 200 Ch. II. Wind Tunnels 6. Methods of aerodynamic experimentation Continuous-flow wind tunnels 9. 10. Intermittent-type wind tunnels 11. Test section and nozzle of the supersonic wind tunnel 12. Shock tubes Installations for the Study of the Flow Passages of 76.60 64 Ch. III. Turbomachinery Methods of investigation 13. 14. Installations for the study of grids 15. Methods of experimenting with grids 70 16. Experimental machines 17. Installation for the modeling of flow in hydraulic Card 3/9

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erodynamic Experimentation (Cont.) 50075100		
	1	
machinery 18. Obtaining performance data of hydraulie-turbine models in an air modeling stand	84) 84	
models in an air modeling Ch. IV. Elements of Flow Passages of Experimental Installations: Test Section and Diffuser	96	
The IV. Elements of Flow Passages of Empor	' 80 86 93 93 104	
iest out a supprimental installation	93 93	
19. Test sections of experimental operation 20. Characteristics of diffuser operation		
oo Chanadieristich of one	164	
20. Characterine form diffusers 21. Straight-line form and stepped-form diffusers 22. Curvilinear-form and sutlet conditions on diffuser		
21. Straight fine and stepped-form diffuser 22. Curvilinear-form and sutlet conditions on diffuser 23. Effect of inlet and outlet conditions on diffuser	11	
	115 117	
24. Annular-section diffusers	1.1.1	
25. Subsonic and Capit Ch. V. Elements of Experimental Installations. Screens. Honeycombs, Confusers, and Elbows and Changes of Honeycombs, Confusers, and Elbows and Changes of	122	
	122	
Flow Direction 26. Screens and honeycombs	129	
26. Screens and house 27. Confusers		
27. 00m doer d		
Card 4/9		

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013427

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