CHIOGOLYA, G.; BERAL, Kh.; VASIL'YEV, P.; POPOVICH, N.; KOSMIN, Anna; MADZHARU, M.; YAKOB, A.; LAKATOSH, L.; DIAKU, D.; PATRASHKU, S.

Determination of bismuth in Rumanian drugs by means of XDTA titration. Apt.delo 8 no.6:67-69 N-D '59. (MIRA 13:4)

1. Iz Instituta po lintrolyu kachestva medikamentov Ministerstva zdravookhraneniya Rumynskoy Marodnoy Respubliki, Bukharest. (BISMUTH--ANALYSIS)

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____DIAMANT, J.; DUFEK, J.; HOSKOVEC, J.; KRISTOF, M.; PEKAREK, V.; ROTH, B.; VELEK, M.; Technicka spoluprace: Kubickova .d.s. M.

> Electroencephalographic study of hypnosis. Cesk. psychiat. 55 no.5:285-295 0 159.

> 1. Psychiatricka klinika a neurologicka klinika KU v Praze, Ustredni zdravotni ustav MV; psychiatricka lecebna v Praze 5. (BLECTROENCEPHALOGRAPHY) (HYPNOSIS physiol.)

DIAMANT, P.I.

Calculation of the spiral housings for centrifugal fans and pumps. Nauch.dokl.vys.shkoly; emerg. no.2:283-292 '59. (MIRA 13:1) (Centrifugal pumps) (Centrifugal fans)

DIAKKOV, A.

Prospects for production of furfurole in Bulgaria. p. 33.

TEZHKA PROMISHLENOST. (Ministerstvo na tezhkata promishlenost) Sofiia, Bulgaria. Vol. 8, no. 6, June 1959.

Monthly List of East European Accessions EEAI) IC, Vol. 9, No. 2, Feb. 1960. UNCL

DIANOCZKI, I.

Tobbtermeles - Vol. 9, no. 5, May 1955.

Economy of materials in the Red Star Tractor Plant. p. 8.

50: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

DIANGERT, I.

DIALCENI, J. Good organizational work is needed by the enterprises. p. 26.

Yol. 10, no. 7, July 1956 TOBLEPUTEL Budarest, Hungary

So: East European Accession, Vol. 6, No. 5, Nav 1957

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ACCESSION NR: AT4042675

s/0000/63/000/000/0162/0165

AUTHOR: Dianov, A. G.; Kuznetsov, A. G.

TITLE: The possiblility of substituting helium for nitrogen in spaceship cabins

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy* konferentsii. Moscow, 1963, 162-165

TOPIC TAGS: helium oxygen atmosphere, man, closed environment, helium oxygen effect, central nervous system, respiratory system, cardiovascular system, gas exchange, thermal exchange, speech, hearing

ABSTRACT: Experiments have been performed to test the effects on human subjects of a prolonged stay in a helium-oxygen atmosphere. Two subjects were kept in a sealed cabin for 10 and 25 days, respectively, after which time studies were made on the functions of the central nervous system, the respiratory system, and the cardiovascular system and on gas exchange, thermal exchange, speech, and hearing. The experiments indicated that a helium atmosphere affects the thermal regime of man. Temperatures of 18 to 24°C, which are comfortable in normal atmos-

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pheres, produced in a helium atmosphere a sensation of chilliness and a lowering of the skin temperature. The comfortable temperature ranges in a helium-oxygen atmosphere were 24.5--27.5°C during the day and 26--29°C at night, when the subjects were sleeping. Investigation of the functions of the central nervous system, conducted in the comfortable temperature range for helium atmospheres, indicated a gradually growing inhibitory process in the cortex of the brain, which manifested itself by the appearance of low-frequency oscillations on the encephalogram and by an increase in the duration of the latent period of conditioned motor reflexes. Analysis of the experimental data indicated that these changes were due to prolonged hypodynamia and not to substitution of helium for nitrogen in the atmosphere. General well-being and work capacity of the subjects were not affected by the helium-oxygen atmosphere. The helium atmosphere also had no effect on external respiration, the cardiovascular system, gas exchange, or energy consumption. Minute changes observed at the end of the experiment were due to hypodynamia rather than to the changed atmosphere. On the other hand, it was found that a helium-oxygen affects human speech, raising the frequency of speech sounds by 0.7 of an octave. Clarity of speech is lessened somewhat but not to the point of unintelligibility. The auditory function of the subjects in a helium-oxygen atmosphere apparently was not affected. These experiments

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ACCESSION NR: AT404267	5 - ¹		- 	····	4 2
establish clearly that atmosphere for 25 days	it is possible	for man to live	in an oxygen-he	lium	
ASSOCIATION: none	· · · · · · · · · · · · · · · · · · ·		. .		
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KUZNETSOV, A. B.; AGADZHANYAN, N. A.; DIANOV, A. G.; ZHAROV, S. G.

"Effect on the body of prolonged exposure to conditions of artificial atmosphere."

report presented at the 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

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ACCESSION NR: AP4041573 AUTHOR: Dianov, A. G.	S/0293/64	/002/003/0498/0503	
ITLE: Possibility of replacing paceship cabins and the effect ixture for space helmet ventile	1 VARAEE AF AMALAM/	en with helium in A helium-oxygen	
OURCE: Kosmicheskiye issledov			
OPIC TAGS: manned space flight elmet ventilation, helium oxyge xygen, nitrogen	t, respiration, cabin an atmosphere, life	n ventilation, support, helium,	
BSTRACT: An investigation was ffects on man of prolonged expo hermetic chamber. Exposure was oved from the cabin atmosphere ollowed by helium. The average osphere was 22.5% oxygen, 76% h kida concentration did not exce 50-180 liters/minute. The ter	to a helium-oxy is for 22-30 days. by first introducing composition of the helium, and 1.5% nith	/gen atmosphere in Nitrogen was re- t pure oxygen experimental at- ogen. Carbon di-	
ard 1/3			

ACCESSION NR: AP4041573

subjects was 24.5-27.5C during the day and 26-29C at night. Humidity was 30-60%. For control purposes, each test subject was also studied under normal conditions. Caloric intake of test subjects was 3600 kcal per day. It was observed that the skin temperature of subjects in the helium-oxygen atmosphere was 2 degrees cooler than in normal air. Bioelectric measurements revealed no alterations in higher nervous activity. Similarly, the cardiovascular system, respiration, and basal metabolism were essentially normal under these conditions. Any physiological abnormalities observed were directly attributed to prolonged adynamia and isolation. The only noticeable effect that the helium-oxygen environment had on subjects involved lowered clarity of speech and changes in voice pitch, which at high frequencies were seven-tenths of an octave higher. The author feels that employing a helium-oxygen mixture for space cabin ventilation is justifiable from the standpoint of the improved heat exchange which the test subjects exhibited. This greater thermal efficiency is due to the higher thermal conductivity of helium in comparison with nitrogen. For this reason, the ventilation rate could be significantly lowered, which is important in terms of space vehicle energy conservation. Also, since

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ACC NR: AT6036550 SOURCE CODE: UR/0000/66/000/000/01 52/01 53 AUTHOR: Dianov, A. G. ORG: none TITLE: The effect on the animal organism of replacing atmospheric nitrogen and helium under conditions of insufficient oxygen and increased carbon dioxide concentration [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 152-153 TOPIC TAGS: hypoxia, hypercapnia, helium oxygen atmosphere, rat, biologic respiration ABSTRACT: To study the effect of replacement of atmospheric nitrogen with helium on hypoxia and hypercapnia, recordings were made of body temperature, respiration rate, and cardiac contraction frequency in rats of uniform weight placed in a helium-oxygen atmosphere without regeneration. Decreased pO2 and increased pCO2 resulting from the vital activity of the organisms in the chamber was the direct cause of death of the animals. Substitution of helium at a temperature of 22°C for the nitrogen in the chamber atmosphere increased the life expectancy of the animals under these conditions by 42%. At higher chamber temperatures, this difference Cord 1/2

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tancies of animals breathing heliumoxygen atmosphere, greater thermal conductivity heliumoxygen atmosphere, oxygen requirement were mo than in air at temperatures f of the heliumoxygen atmos Changes in respiratory	C there was no difference in the life expec- air and those breathing the The increased life expectancy is due to the and enhanced cooling of the animal in the Decreased body temperature and decreased ore pronounced in a heliumoxygen mixture from 22° to 31°C. At 36°C, the cooling effect sphere was suspended. and cardiac activity seen when nitrogen is re- litions of hypoxia and hypercapnia are princi-
pally due to the physical pro	perties the high thermal conductivity and
low density of helium. [W.A. No. 22; ATD Report 66-116]
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DIANOV, A.N.; YEDRENKIN, S.S.; CHARYGIN, M.M.

Reservoir rock properties and oil potential of the carbonate sediments of the Bashkirian stage of the Mogutovo and Tverdilovo areas of the Samarkin dislocation. Geol. i geofiz. no.5:56-57 164. (MIRA 17:9)

1. Noskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina.

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9.2180	sov/124-59-9-9830
Translation	from: Referativnyy zhurnal, Mekhanika, 1959, Nr 9, p 36 (USSR)
AUTHOR:	Dianov, D.B.
TITLE:	On the Performance of a <u>Plane Piezo-Vibrator</u> Under the Conditions of Unidirectional Radiation
PERIODICAL:	Izv. Leningr. elektrotekhn. in-ta, 1957, Nr 31, pp 46 - 59
ABSTRACT:	The author expounds the results of calculating a plane piezo- vibrator made of an X-cut of quartz. The calculation method is similar to that, which usually is applied to calculating the passage of plane waves through plane parallel plates. The formulae obtained for the radiation intensity are analyzed for some special cases: 1) the media on both sides of the vibrator are equal and have finite wave impedance; 2) the vibrator comes on one side in- to contact through a $\lambda/4$ -layer of an arbitrary matter, with a medium; 3) the vibrator comes on one side into immediate contact with a medium, the wave impedance of which is equal to zero. The latter case, most important for practice, is analyzed in detail.
Card 1/2	The author shows that the optimum thickness of the vibrator, i.e., χ

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On the Performance of a Plane Piezo-Vibrator Under the Conditions of Unidirectional Radiation

the thickness, with which maximum power output is yielded, will not be equal to $\lambda / 2$, if the ratio of the wave resistance of the load to that of quartz is greater than $\sqrt{2}$. The greater the wave impedance of the load, the nearer the optimum thickness of the vibrator to $\lambda/4$. The author gives the frequency dependence of the vibrator intensity for various values of the load wave impedance. In proportion to moreasing the load wave impedance, the frequency characteristics become more gently sloping. When the wave impedance of quartz and load are equal, the vibrator loses its resonance properties. The author studies in detail the part of an intermediate lubrication layer in the vibrator radiation into a solid medium.

Yu.P. Lysanov

Card 2/2

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ACHKINADZE, Shamil' Dautovich; DIANOV, D.B., kand.tekhn.nauk, red.; GVIRTS, V.L., tekhn.red.

> [Industrial application of ultrasonic waves in the machinery and instrument industry] Promyshlennoe primenenie ul'trazvuka v mashinostroenii i priborostroenii; obzor. Leningrad, Leningr.dom nauchno-tekhn.propagandy. No.1. 1958. 59 p. (MIRA 12:11) No.2. 1958. 115 p. (Ultrasonic waves--Industrial applications)

 AUTHOR: Dianov, D. B. TITLE: Seminar on Physics and Application: of Ultrasound, Dedicated to the Memory of S.Ya. Sokolov, a Corresponding Member of the Academy of Sciences of the USSR. (Seminar po fizike i primeneniyu ul'trazvuka, posvyashchennyy pamyati chlena- korrespondenta AN SSSR S.Ya. Sokolova.) PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol.IV, Nr.1, p.104. (USSR) ABSTRACT: A Seminar on Physics and Applications of Ultrasound, dedicated to the memory of S. Ya. Sokolov, was held on 23-26th October, 1957, in Leningrad Electro- Technical Institute imeni V.I. Ul'yanov (Lenin). More than 100 scientists and engineers from Leningrad, Moscow and other towns took part in this seminar. Sokolov's scientific work on ultrasound was described by G.V. Odintsov and E.S. Sokolova; and L.L. Myasnikov and S.N. Rzhevkin described their personal contacts with Sokolov. A large group of papers dealt with ''Ultrancoustoscopy'', the subject which was developed Card 1/3 by Sokolov. L.G. Merkulov, N.A. Yevdokimov and 			1
Dedicated to the Memory of S.Ya. Sokolov, a Corresponding Member of the Academy of Sciences of the USSR. (Seminar po fizike i primeneniyu ul'trazvuka, posvyashchennyy pamyati chlena- korrespondenta AN SSSR S.Ya. Sokolova.) PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol.IV, Nr.1, p.104. (USSR) ABSTRACT: A Seminar on Physics and Applications of Ultrasound, dedicated to the memory of S. Ya. Sokolov, was held on 23-26th October, 1957, in Leningrad Electro- Technical Institute imeni V.I. Ul'yanov (Lenin). More than 100 scientists and engineers from Leningrad, Moscow and other towns took part in this seminar. Sokolov's scientific work on ultrasound was described by G.V. Odintsov and E.S. Sokolova; and L.L. Myasnikov and S.N. Rzhevkin described their personal contacts with Sokolov. A large group of papers dealt with 'ultraacoustoscopy", the Subject which was deweloped	AUTHOR:	Dianov, D. B. 46-14-1-17/23	
p.104. (USSR) ABSTRACT: A Seminar on Physics and Applications of Ultrasound, dedicated to the memory of S. Ya. Sokolov, was held on 23-26th October, 1957, in Leningrad Electro- Technical Institute imeni V.I. Ul'yanov (Lenin). More than 100 scientists and engineers from Leningrad, Moscow and other towns took part in this seminar. Sokolov's scientific work on ultrasound was described by G.V. Odintsov and E.S. Sokolova; and L.L. Myasnikov and S.N. Rzhevkin described their personal contacts with Sokolov. A large group of papers dealt with 'ultraacoustoscopy", the Subject which was developed	TITIE:	Dedicated to the Memory of S.Ya. Sokolov, a Corresponding Member of the Academy of Sciences of the USSR. (Seminar po fizike i primeneniyu ul'trazvuka, posvyashchennyy pamyati chlene.	
dedicated to the memory of S. Ya. Sokolov, was held on 23-26th October, 1957, in Leningrad Electro- Technical Institute imeni V.I. Ul'yanov (Lenin). More than 100 scientists and engineers from Leningrad, Moscow and other towns took part in this seminar. Sokolov's scientific work on ultrasound was described by G.V. Odintsov and E.S. Sokolova; and L.L. Myasnikov and S.N. Rzhevkin described their personal contacts with Sokolov. A large group of papers dealt with 'ultraacoustoscopy'', the subject which was developed	PERIODICA	L: Akusticheskiy Zhurnal, 1958, Vol.IV, Nr.1, p.104. (USSR)	
		dedicated to the memory of S. Ya. Sokolov, was held on 23-26th October, 1957, in Leningrad Electro- Technical Institute imeni V.I. Ul'yanov (Lenin). More than 100 scientists and engineers from Leningrad, Moscow and other towns took part in this seminar. Sokolov's scientific work on ultrasound was described by G.V. Odintsov and E.S. Sokolova; and L.L. Myasnikov and S.N. Rzhevkin described their personal contacts with Sokolov. A large group of papers dealt with 'ultraecoustoscopy", the subject which was developed	

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A.S. Golubev, in their paper on "Ultrasonic Methods of Studies of Solids" described Sokolov's and his co-workers' work on ultrasonic testing for defects. A.K. Gurvich spoke on "Further Development of Ultrasonic Apparatus for Quality Control of Welded Joints"; B.N. Masharskiy reported on defect tracing by change of frequency and use of standard defects; transmission of ultrasound across a boundary between two solids was described by B.D. Dianov; V.V. Bogorodskiy and I.V. Zashchuk reported the results of ultrasonic measurement of properties of ice and concrete respectively. The subject of making acoustic field visible was dealt with in papers by V.G. Prokhorov - "On Transformation of an Ultrasonic into a Visible Image" (electronacoustic convertors), P.V. Ponomarev (use of piezoelectric mosaics), and Ye.D. Pigulevskiy (convex images in liquids). Ultrasonic absorption in liquids was dealt with by B.B. Kudryavtsev in "Use of Ultrasonic Measurements in Physico-Chemical Studies". V.F. Nozdrev reported measurements of critical constants Card 2/3 using ultrasonics, and S.A. Balyan spoke on propagation

46- 4-1-17/23 Seminar on Physics and Application: of Ultrasound, Dedicated to the Memory of S.Ya. Sokolov.

> of ultrasound in reacting liquids. Measurement of ultrasound velocity and absorption were dealt-with in paper's by V.F. Nozdrev, V.F. Yakovlev, N.I. Koshkin ("Development of Professor S.Ya. Sokolov's Ideas on Pulse Technique in the M.O.P.I Iaboratory"), I.G. Mikhaylov ("Application of a Piezoelectric Quartz Wedge to Measurement of Absorption in Liquids"), V.A. Solov'yev ("Application of a Composite Piezoelectric Vibrator in the Study of Polymers"), and G.N. Feofanov ('Measurement of Velocity of Propagation of Ultrasonic Waves in Liquids using the Method of Pulse Interferc-metry"). Two papers on the effect of ultrasonics Two papers on the effect of ultrasonics on crystallization were read: I.I. Teumin on "The Effect of Elastic Vibrations on Crystallization and on Technical Properties of Metals and Alloys", and Kh.S. Bagdasarov on "The Effect of Ultrasonic Vibrations on Crystallization Processes.",

Card 3/3 1. Physics-Conference 2. Ultrascond-Applications 3. Ultraacoustoscopy

AUTHOR :	Dianov, D.B. 50 V/46-5-1-5/24
ti tle :	Passing of Ultrasonic Waves Through Plane-Parallel Layers (Ob iziucnenii ul'trazvukovykh voln cherez ploskoparallel'nyye sloi)
PERIODICAL:	Akusticheskiy Zhurnal, 1959, Vol 5, Nr 1, pp 31-37 (USSR)
ABS TRACT :	Ultrasonic waves are often emitted or received via an intermediate system consisting of one or more plane-parallel layers. For example, in studies of solids by means of ultrasonic waves, one or more inter- mediate layers are placed between a vibrator or a receiver and the solid in order to improve the efficiency of energy transfer. Such intermediate layers and their effect on emitted rediction on dis

mediate layers and their effect on emitted radiation are discussed in the present paper. The author shows that, if one quarter-wave layer is used between a piezovibrator and a medium, the emission intensity at a particular frequency may be increased, provided the layer has lower acoustic impedance than the impedance of the medium. Larger increases of intensities at chosen frequencies can be achieved by the use of two or more layers. For this purpose an odd number of intermediate layers is usually employed for irradiation of solids, while an even number of

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Passing of Ultrasonic Waves Through Plane-Parallel Layors

such layers is more convenient in irradiation of liquids. The author verified the theoretical equations obtained by comparison with experimental results. For example, Fig 3 curve 1 shows the frequency characteristic of a vibrator emitting directly into water, while curve 2 shows the same vibrator emitting via an intermediate double layer consiting of water and a glass plate. The crosses in Fig 5 are experimental values and they show good agreement of the theoretical continuous curve with experiment. There are 5 figures and 10 references, 5 of which are Soviet, 3 English and 2 translations of English into Russian.

ASSOCIATION:Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Leningrad Electrotechnical Institute imeni V.I. Ul'yanov (Lenina). [Lenin]).

SUBMITTED: January 16, 1958

Card 2/2

DIANOV, D.B. ~

Scientific-technological conference on physical methods for the nondestructive testing of materials. Akust. zhur. 7 no.3: 394~396 \$61。 (MIRA 14:9) (Nondestructive testing)

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DIANOV, D.B.; MERKULOV, L.G.; NIKITENKO, V.I.

Precipitation of zinc oxide aerosols in an acoustic field. Akust. zhur. 8 no.1:60-66 162. (MIRA 15:4)

1. Leningradskiy elektrotekhnicheskiy institut imeni V.I.Lenina (Ul 'yanova). (Aerosols) (Zinc oxide) (Ultrasonic coagulation)

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ACCESSION NR: AP4025729

S/0046/64/010/001/0048/0053

AUTHORS: Dianov, D. B.; Zharkov, K. V.

TITLE: Excitation of normal waves in plates by the method of an obliquely incident sound beam

SOURCE: Akusticheskiy zhurnal, v. Jo, no. 1, 1964, 48-53

TOPIC TAGS: excitation, normal wave, sound beam, wave field, piston radiator, defect detection, wave propagation, plane wave, Fourier transform, Bessel function

ABSTRACT: The authors compute the wave field formed in a plate by impinging on it a sound beam created by a piston radiator. They obtain asymptotic formulas determining the direction of the normal waves and the dependence of their amplitude on the angle of inclination of the radiator. The computational results are experimentally verified. This problem is of interest in defect detection. Orig. art. has: 3 figures and 16 formulas.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im V. I. Ul'yanova

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ACC NR: AP5028048 SOURCE CODE: UR/0046/65/011/004/0442/0452	
AUTHOR: Dimov, D.B.; Prokhorov, V.G.	
ORG: Leningrad Electrotechnical Institute im. V.I. Ul'yanov (Lenin) (Leningradskiy elektrotekhnicheskiy institut)	
TITLE: Focusing <u>ultrasonic reflectors</u> (⁰	
SOURCE: Akusticheskiy zhurnal, v. 11, no. 4, 1965, 442-452	
TOPIC TAGS: acoustic radiation, acoustic equipment, ultrasonic radiation, ultrasonic equipment, acoustic reflection	
ABSTRACT: This article analyzes and compares the effectiveness of seven various types of ultrasonic reflectors and presents the necessary engineering calculations of such devices. In addition to known types, the article examines two devices proposed by the present authors, one of which incorporates reflectors in the form of a truncated rotation paraboloid and a plane radiator, and the other a device with two reflectors in the form of truncated parabolic cylinders and a plane radiator. Analytic expressions are presented for the functions of amplitude distribution at the wave front, amplification factors, focusing factors at the acoustic pressure, and the oscillation rate. On the basis of the expression obtained, the authors perform calculations of the factors of focusing concentrators with different values of their parameters. The optimal values of the parameters are determined. A comparison of the concentrators examined shows that they differ little among themselves in their basic characteristics, and	
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t their for formulas.	cusing fa	ctors can	achieve high i	magnitudes.	Orig. art	. has: 1	4 figure	s and	0	
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31521-66 EWT(1)/FCC IJP(c) WW/GW ACC NR: AP6007994 SOURCE CODE: UR/0046/66/012/001/0031/0038 52: AUTHOR: Denisov, A.S.; Dianov, D.B.; Podol'skiy, A.A.; Turubarov, V.I. В ORG: Leningrad Institute of Aviation Instrument Building (Leningradskiy institut aviatsionnogo priborostroyeniya); Leningrad Electrotechnical Institute im. V. I. Ul'yanov (Lenin) (Leningradskiy elektrotekhnicheskiy institut) TITLE: Drift of an aerosol particle in an acoustic wave distorted by the presence of the second harmonic SOURCE: Akusticheskiy zhurnal, v. 12, no. 1, 1966, 31-38 TOPIC TAGS: acoustic wave, aerosol, harmonic function, acoustics ABSTRACT: The authors investigate the fundamental characteristics of drift due to the asymmetric form of an acoustic wave, which may substantially affect the process of acoustic coagulation of aerosols. Approximate formulas are obtained for the determination of particle drift velocity in an acoustic wave distorted by the presence of the second harmonic, reflecting the relationships of drift velocity to such parameters as frequency, particle radius, and the slip angle of the second harmonic. It is demonstrated that there is a maximum of particle drift velocity as a function of particle frequency; with increasing frequency the maxima shift to the region of smaller radii and decrease in magnitude. It is found that for different dimensions of the particles the drift assumes a zero value at certain angles of phase shift. For a UDC: 534, 29:541, 182, 21, 3 Card 1/2

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ſ	results obtained are	compared with the prece	ise resulte Drig. art.	particles is directed agai each several cm/sec. The sobtained by solving the i has: 6 figures and 16 form	
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ACC NR: AP7003496	SOURCE CODE:	UR/0069/66/028/004/0498	24
AUTHOR: Dianov, D. B.; Pode ORG: Leningrad Institute o (Leningradskiy elektrotekhn Instrument Making (Leningra TITLE: Aerosol particle dr SOURCE: Kolloidnyy zhurnal TOPIC TAGS: aerosol, stand ABSTRACT: Among a number o the theory of aerosol parti MEDNIKOV, showing that under by drifts caused by periodi of a traveling wave and by wave. The purpose of the p	f Electrical Engineering in icheskiy institut); Lening dskiy institut aviats ionnol ift in a sound wave of find , v. 28, no. 4, 1966, 498- ing wave, traveling wave of works which have appeared cle drift in a sound field or certain conditions a pre- ic change in the viscosity asymmetry of vibrations in	n. V. I. Ul'yanov (Lonin). rad Institute of Aviation go priborostroyeniya) Ite amplitude 503 d in the last few years on is a monograph by Ye. P. dominant role is played of the medium in the case the case of a standing der these questions in	
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KISEL'GOF, M. L., and KISELEV, P. I. (Cand.Tech.S^C1.) LAZAREV, Yu. G., <u>DIANOV</u>, IM., MURAVKIN, B. N. (ENgr.) and MAKSIMOV, V. M. (Cand.Tech.Sci.)

"Questions of Fuel Preparation."

A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-Houses. Moscow, 17 - 20 Dec 1957.

Teploenergetika, 1958, . No. 4, pp. 90-91 (USSR)

BURGVITS, G.A., inzh.; <u>DIANOV, I.M.</u>, inzh.; KUSHNIKOV, B.D., inzh.; IAZAREV, Yu.G., inzh.; KEIEYS', P.N., kand.tekhn.nauk

Use of high-speed shaft mills for coal crushing. Energomashinostroenie 7 no.10:19-22 0 '61. (MIRA 14:10) (Coal, Pulverized) (Boilers-Firing)

KAZARNOVSKIY, Ye.M., kand. tekhn. nauk; BURGVITS, G.A., inzh.; DIANOV, 1.M., inzh.; VOROTYNTSEV P.P.

Results of the study of the performance of hammer mills with air blast separators in coal crushing operation. Energomashinostroenie 10 no.11:39-43 N '64 (MIRA 18:2)

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APPROVED FOR RELEASE: 06/12/2000

*1)

DIANOV, I.P., kandidat tekhnicheskikh nauk.; SUSLOV, B.V., inzhener.

For development of specialization and cooperation in the locomotive: building industry of the U.S.S.R. Vest. elektroprom 28 no.1: 45-49 Ja 157. (MIRA 10:4)

1. Novocherkasskiy politekhnicheskiy institut (for Dianov). 2. Novocherkasskiy elektrovozostroitel'nyy zavod (for Suslov). (Locomotives)

DIANOV, I.P.

Production basis for building locomotives in the U.S.S.R. and problems of developing specialization and cooperation in the production of electric locomotives. Izv. vys. ucheb. zav.; elektromekh. 1 no.5:98-105 '58. (MIRA 11:8) (Electric locomotives)

DIANOV, I.P., kand, ekon. nauk

Specialization and cooperation are the most inportant factors for rhythmical work flow in locomotive plants. Trudy LEBI no.22: 278-289 158. (MIRA 11:12)

1. Hovocherkasskiy Politekhnicheskiy institut imeni Ordshonikidse. (Locomotives--Construction)

DIANOV-KLOKOV, V. I.

"On the oxygen absorption spectrum in the near infrared."

report presented at the Atmospheric Radiation Symp, Leninbrad, 5-12 Aug 64.

DIANOV-KLOKOV, V.I. -

Oxygen absorption spectrum obtained at pressures of 2 - 35 atm. in the region 12600-3600 A. Opt. i spektr. 16 no.3:409-416 Mr '64. (MIRA 17:4 (MIRA 17:4)

DIANOV, Mikhail Ivenovich, Geroy Sotsialisticheskogo Truda; VISHNYA-KOVA, Te.A., red.; YILAGIN, A.S., tekhn. red.

[We'll fulfill the tasks of the sevon-year plan shead of time] Zadanie semiletki vypolnim dosrochno. Moskva, Izd-vo "Sovet-skais Rossiis," 1960. 27 p. (MIRA 14:5)

1. Predsedatel' kolkhoza "Rossiya" Spasskogo rayona Ryazanskoy oblasti (for Dianov)

(Ryazan Province--Collective farms)

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AUTHORS :	Dianov, M. P., Trifonov, N. A.	79-28-4-5/60
TITLE:	Physical - Chemical Analysis of the Ethylene Allyl Isothiocyanate System (Fiziko-khimiches sistemy etilen diamin - allilovoye gorchichne	skiy analiz
PERIODICAL:	Zhurnal Obshchey Khimii. 1958. Vol. 28. Nr 4 pp. 872-875 (USSR)	· · · · · · · · · · · · · · · · · · ·
ABSTRACT :	The ethyl diamine-allyl isothiocyanate system gated by the authors as to viscosity, density refraction, boiling point, on which occasion ition of vapour was determined. The component investigated were carefully purified. Viscosi sured at 4c° by means of two closed viscosime val'd with capillaries of different diameters viscous compcunds (50.8c% molar of the isoth: measured in the viscosimeter with greater dia was measured by means of a pychometer of 1.21 volume. The index of refraction was determined	y, index of also the compos- ts of the system ity was mea= eters by Ost= s. The especially ioryanite) were ameter. Density 73 milliliters ed by means of
Card 1/3	the refractometer by Abbs at 35°. The results	s are given on

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: Physical - Chemical Analysis of the Ethylene Diamine 79-28-4-5/60 Allyl Isothiocyanate System

> table 1. Boiling point and compound of vapour were deter= mined by means of an apparatus designed by the author ac= cording to the principle of an apparatus with ebullioscope by V. A. Kireyev (Ref. 5). Pressure was maintained by means of a monostat with electro-magnetic control of a precision up to ±0.3 mm mercury column. Bciling temperature (Ref. 6) was determined at 100 and 200 mm mercury column, composition of vapour at loo mm. The results are given on table 2. On the basis of the obtained results the system ethylene diamine - allyl isothiocyanate must be placed to the rational systems. A comparison of the curves of the properties investigated shows that its individual points among others also on the boiling isobar correspond to one and the same compound, 66,7 mol. % of isothiocyanite. It is supposed that the azeotropic mixture in this system like in all rational systems represents an individual chemical compound. Only one single chemical compound - ethylene di(allyl thiocarbamide) $C_2H_8N_2 \sim 2C_3H_5CNS$ forms in the system. Under normal conditions it is in undissociated state. There are 3 figures, 2 tables and 6 references, all cf

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which are Soviet.

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Physical - Chemical Analysis of the Ethylene Diamine - 79-28-4-5/60 Allyl Isothiocyanate System

ASSOCIATION: Kazanskiy gosudarstvennyy universitet (Kazan' State University)

SUBMITTED: February 25, 1957

Card 3/3

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A Physical-Chemical Analysis of Bin Basis of Boiling Point Measurements dvoynykh zhidkikh sistem po izmeren Doklady Akademii nauk SSSR, 1958, V pp 1033 - 1036 (USSR)	(Fiziko-khimicheskiy analiz iyam temperatur kipeniya)
	ol 123. Ur 6.
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The classification and theoretical utilization of the experi- mental data concerning the boiling temperatures of binary systems in publications do not suffice to establish the applicability of measurements of these temperatures in the physical-chemical analysis. For this reason, the authors additionally investigated the following systems: dioxane- ethylene-glycol and nitro benzene-isobutyl alcohol. Their boiling isobars are of the same type and show a negative deviation from the standard curve. This is due to the dissociation of associated molecules of the components at their dissolution. For the determination of the boiling temperature and the vapor composition a modified ebullioscope	
	The classification and theoretical mental data concerning the boiling systems in publications do not suff applicability of measurements of th physical-chemical analysis. For thi additionally investigated the follo ethylene-glycol and nitro benzene-i boiling isobars are of the same typ deviation from the standard curve. dissociation of associated molecule their dissolution. For the determin

A Physical-Chemical Analysis of Binary Liquid Systems SOV/20-123-6-21/50 on the Basis of Boiling Point Measurements

> rational systems may possess 3 types of singular points: a) an upper point, b) a middle one and c) a lower one. In the 6 rational systems investigated by the authors the types a) and b) were determined. The most characteristic ones were: piperidinemustard oil (Fig 1) and ethylene-diamine-mustard oil. An isobar of the b-type is shown by the systems: water-acetic anhydride and diphenyl-amine-maleic anhydride. The condensation curve of the water-acetic anhydride system (Fig 2) consists of 2 parts with different ascent. These parts intersect (as well as the evaporation curve) in the singular point. This suggests the existence of a compound not dissociated (acetic acid) in the vapor. Although no boiling isobars of the c-type could be found experimentally, their theoretically possible existence is supported by the model-method (Ref 9). In addition to the singular points at the same time the occurrence of azeotropes on the isobars is possible which are formed by the compound and by one of the components. This occurs in the systems: diethyl-amino-phenyl mustard oil and ethylanilinephenyl mustard oil (Fig 3). By rounding off the singular points of the rational systems and by a gentle combination of the

Card 2/3

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A Physical-Ch on the Basis	nemical Analysis of Binary Liquid Systems SOV/20-123-6-21/50 of Boiling Point Measurements
	parts of boiling isobars, corresponding curve types of the irrational systems can be constructed (Ref 10). The authors investigated 5 of such systems by means of the ebullioscope: stannous chloride-ethylacetate, $PCl_3 - C_6H_5CHO$, chloral
	water (Fig 4), chloral ethanol, ethylene-diamine-water. The results of the measurements of the boiling temperature are in accordance with those of other physical properties and complete them considerably. Thus, the ebullioscopic determina- tion can be regarded as an efficient method in the physical- chemical analysis of liquid systems. There are 4 figures and 16 references, 9 of which are Soviet.
ASSOCIATION:	Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina (Kazan' State University imeni V. I. Ul' y anov-Lenin)
PRESENTED:	June 12, 1958, by B. A. Arbuzov, Academician
SUBMITTED: Card 3/3	June 5, 1958

5 (4) .AUTHORS:	Teytel'baum, B. Ya., Dianov, E. P. SOV/20-128-1-28/58
TITLE:	Spectrophotometric Investigation of Picrates of Aromatic Hydrocarbons in Solution
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 106-109 (USSR)
ABSTRACT :	In the present paper the authors attempted to solve the problem as to whether aromatic hydrocarbons may be determined on the basis of light absorption of their picrates. As a solvent 1,2-dichloro ethane was used which solves picric acid and hydro- carbons as well as picrates. In a relatively wide spectral range the absorption curves were plotted and for a series of solutions the molar extinction coefficients \in were computed (Fig !). Absorption spectra of the solutions investigated may be divided into 3 ranges: In the shortwave range (222-300 mµ) absorption bands characteristic of naphthalene hydrocarbons occur. In the medium range there is the absorption maximum of picric acid (340 mµ). For differently concentrated solutions and solutions with heterogeneous hydrocarbons the extinction curves are equal. The long-wave range is characterized by the absorption of picrates. Besides naphthalene and its methyl-substituted
Card $1/3$	derivatives, also individual non-condensated aromatic
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Spectrophotometric Investigation of Picrates of Aromatic Hydrocarbons in Solution SOV/20-128-1-28/58

hydrocarbons were investigated. With all solutions investigated absorption edges are almost parallel (Table 1) in the visible part of the spectrum. The investigation was carried out on the spectrophotometer SF-4 at room temperature. The following investigation results were found: By formation of picrates of aromatic hydrocarbons, the absorption edge of picric acid is shifted towards the longwave range. The amount of shifting depends on the nature of the hydrocarbon and on the concentration of the solution. With an increase in the number of alkyl groups in the hydrocarbon molecule, the absorption edge is shifted correspondingly. The shifting of the absorption edges is hardly influenced by a complication in the structure of alkyl groups, or by a variation of their position in the ring. This shifting may also serve at a certain optical density - just as the absorption quantity on a certain wave length - for the determination of aromatic hydrocarbone by the spectrophotometric and colorimetric method. The authors thank L. A. Mukhamedova and Ye. A. Robinzon for providing the preparations. There are 2 figures. 1 table, and 7 references, 5 of which are Soviet.

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Spectrophotometric Investigation of Picrates of Aromatic Hydrocarbons in Solution

SOV/20-128-1-28/58

Khimicheskiy institut Kazanskogo filiala Akademii nauk SSSR ASSOCIATION: (Institute of Chemistry of the Kazan' Branch of the Academy of Sciences, USSR)

April 27, 1959, by B. A. Arbuzov, Academician PRESENTED:

SUBMITTED: April 20, 1959

Card 3/3

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5.5300	77763	
AUTHORS:	SOV/75-15-1-25/29 Dianov, M. P., Teytel'baum, B. Ya.	
TITLE:	Brief Communications. A Photometric Plerate Method of Determination of Naphthalene in Mixtures With Phenol	
PERIODICAL:	Zhurnal analiticheskoy khimii, 1960, Vol 15, Nr 1, pp 119-120 (USSR)	
ABSTRACT:	This simple and accurate method is based on the difference of the bathochromic shifts of naphthalene and phenol plerates. Quartz optics are not necessary (FEK-M spectrophotometer was used). O.1 Dichloroethane solutions of picric acid and naphthalene are used. Picrates of phenol absorb at about $412-425 \text{ m}\mu$, and those of naphthalenes at $455 \text{ m}\mu$ and up. The concentrations are determined from calibration curves. The accuracy of this method is up to 1%. There is 1 figure; 1 table; and 3 Soviet references.	
ASSOCIATION: Card 1/2	Chemical Institute of the Kazan' Branch of the Academy	

Brief Communications. A Photometric Plerate Method of Determination of Naphthalene in Mixtures With Phenol

77763 SOV/75-15-1-25/29

of Sciences, USSR, Kazan' (Khimicheskiy institut Kazanskogo filiala AN SSSR, Kazan')

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410320009-2

SUBMITTED: March 9, 1959

Card 2/2

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DIANOV, M. P., CAND CHEM SCI, "PHYSICO-CHEMICAL ANALYSIS OF BINARY LIQUID SYSTEMS FOR MEASURING BOILING TEMPERATURES." KAZAN', 1959. (KAZAN' ORDER OF LABOR RED BANNER STATE UNIV IMENI V. I. UL'YANOV-LENIN. CHAIR OF PHYSICAL CHEMISTRY). (KL-DV, 11-61, 210).

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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410320009-2"

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TEYTEL'BAUM, B.Ya.; DIANOV, M.P.

Light absorption of picric acid solutions in the presence of aromatic hydrocarbons of the kerosine fractions of the Tatar A.S.S.R. ISV.-Kazan.fil. AN SSSR. Ser.khim.nauk no.6:116-122 [6]. (MIRA 16:5) (Tatar A.S.S.R.--Petroleum) (Hydrocarbons) (Picric acid-Spectra)

1372,2209 15.8500

21134 s/190/61/003/004/009/014 B101/B207

11.2314 Teytel'baum, B. Ya., Dianov, M. P. AUTHORS:

The method of recording the thermomechanical curves of poly-TIPLE: mers

Vysokomolekulyarnyye soyedineniya, v. 3, no. 4, 1961, 594-601 PERIODICAL:

TEXT: This paper reports on the design of an apparatus for the continuous recording of thermomechanical curves (TMC) and on some experiments conducted. Fig. 1 shows a schematical drawing of the apparatus. O is the sample contained in a vessel of 4 mm inner diameter and 2 mm height. It is part of the heater 5 (aluminum). B is cooled with liquid air before the beginning of the experiment by means of the Dewar vessel A, subsequently heated at constant temperature rise. The linear increasing voltage of A/H, the thermocouple TY and the electronic relay P_2 serve for this purpose. P_2 switches in the heating current as soon as the emf of TY has reached the voltage of ANH. The sample is loaded with the weight Γ of the stamp Π , the weight of which is equalized by the scale beam K and counterweight. The contact needle N is fixed at the end of K. The vessel with the samples is

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21134 S/190/61/003/004/009/014 B101/B207

The method

fixed at the cross beam T by means of rods. The micrometer screw M forms part of T and is moved by means of a CA-2 (SD-2) synchronous engine. (Insulators are between K and U, as well as between T and M). H separates from M when the sample is deformed (falling of the stamp Π). Subsequently, the relay P_1 switches in the engine (a) of the record chart of the $\Im III - 09$ (EPP-09) recorder and SD-2, which are synchronous until contact is re-established between N and M. The maximum recording rate of deformation depends on the rpm. of the Warren engine. The temperature of the sample is measured with the thermocouple TU, which is connected to the input (b) of EPP-09. The cold junctions XC are kept at 20°C by means of the thermostat. The potentiometer MC permits the recording of both positive and negative temperatures. At (c), N2 is blown through. A special device was designed to bring various diagrams to the same scale by means of projecting the record chart located on an inclined glass plate onto a horizontal table. Fig. 3 shows the TMC of polyvinyl chloride at different stress. At 100, 125, and 150°C, the diagrams of Fig. 4 were obtained herefrom. Linear function between deformation and stress could be observed only in highly elastic state (up to 100°C). At higher temperatures, a deviation from linearity was observed owing to plastic deformation. Fig. 5 shows the dependence of the vitrifica-

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The method ...

tion temperature T_v and the softening point T_s on the stress. The real T_s was determined by recording T_s at various small stress by extrapolation with respect to zero stress. Similar investigations were also curried out on polymethyl methacrylate and the copolymer from the allyl dichlore vinyl ester of phenyl phosphinic acid and 3% methyl methacrylate provided by N. I. Rizvolozhenskiy and A. A. Muslinkin. The optimum stress was found to depend on the kind of the polymer to be investigated. At high stress, $T_{\rm V}$ can be accurately determined, while the determination of Tg requires a small load. Furthermore, the course of TCC was found to be highly devendent on the preparation of the sample. Fig. 8 shows this for polymethyl methacrylata. V. A. Kargin and V. L. Tsetlin are mentioned. There are 9 figures and 8 Soviet-bloc references.

ASSOCIATION: Khimicheskiy institut Kazanskogo filiala AN SSSR (Chemical Institute of Kazan' Branch, AS USSR)

July 14, 1960 SUBMITTED:

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The method ...

Fig. 1. Circuit diagram of the automatic apparatus for recording TMC.



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tion.

29123 S/020/61/140/005/020/022 B101/B110

/1. 2.211 AUTHORS: Teytel'baum, B. Ya., Yagfarova, T. A., Dianov, M. P., and Gubanov, E. F.

TITLE: Study of thermal transformations of some rubbers by means of thermomechanical curves

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 5, 1961, 1132-1135

PERIODICAL: Akademiya nauk books a second period of thermomechanical TEXT: The authors attempted the continuous recording of thermomechanical curves for rubbers by an improved method (B. Ya. Teytel'baum, Peredovoy nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, nauchno-tekhnich, i proizv. opyt, Tsentr. inst. tekhn.-ek. inf., ser. 32, inf., inf., ser. 32, inf., inf.

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Study of thermal transformations ...

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of the crystalline phase at $\sim 0^{\circ}$ C. If the sample is controlled by thermostat at the optimum crystallization temperature $(-25^{\circ}C)$, the step already appears for slight deformation. This confirms its relationship with the crystalline phase. Such an affect was not observed in any synthetic rubber. (2) Butadiene rubbers CK 5(SKB), CK 3(SKV), CK 5M(SKBM) and piperylene rubber $\mathcal{CK}\Pi(SKP)$ synthesized by alkaline catalysts showed characteristic vitrification temperatures. The thermomechanical curves ascended immediately after exceeding the vitrification temperature. Thus, plastic deformation immediately occurs in these rubbers besides elastic deformation. (3) Butadiene rubber of the type CKNA(SKLD) synthesized by a lithium catalyst and having low plasticity behaved differently. Fig. 3 shows thermomechanical curves for SKLD rubbers of high and low plasticity. Cross linking was found to occur by heating to 250°C. If SKLD rubbers of high plasticity were heated to 250°C, they showed the same thermomechanical curve as rubbers of low plasticity. Other butadiene rubbers such as SKB, (KD(SKD) (synthesized by a complex catalyst) behaved similarly. In natural rubbers, isoprene rubbers CKM, SKI) and piperylene rubber SKP, no cross linking was attained by heating to 250°C. Therefore, butadiene rubbers may be easily distinguished from other rubbers by heating them to 250°C and Card 2/43

29123 s/020/61/140/005/020/022 B101/B110

Study of thermal transformations...

recording the thermomechanical curve. Cross linking occurs at 250°C in butadiene rubbers, while destruction takes place in pentadiene rubbers. The authors thank M. G. Beregovskaya for the supply of the specimens, and for a discussion. A paper by A. A. Tager et al. (Khim. prom. no. 4, 209 (1955)) is mentioned. There are 4 figures and 7 Soviet references.

Khimicheskiy institut im. A. Ye. Arbuzova (Chemical Institute imeni A. Ye. Arbuzov); Institut organicheskoy khimii ASSOCIATION: Kazanskogo filiala Akademii nauk SSSR (Institute of Organic Chemistry of the Kazan' Branch, Academy of Sciences USSR)

May 19, 1961 by B. A. Arbuzov, Academician PRESENTED:

April 13, 1961 SUBMITTED:

Card 3/42

TITLE:

8/138/62/000/008/002/007 A051/A101

Teytel baum, B. Ya., Dianov, M. P., Beregovskaya, M. G., Yagfarova, AUTHORS: т. А.

and the destruction of the part of the second 1.15

Thermomechanical curves of several rubbers

PERIODICAL: Kauchuk i rezina, no. 8, 1962, 3 - 6

The thermomechanical curves of several rubbers under various loads, within a temperature interval from -120 to +450°C, were recorded, using an automatic recorder. The method of continuous weight application was used. The resultant curves reflected the characteristic qualities of the investigated rubbers, leading to the derivation of certain quantitative units: T_g - vitrification temperature, T_f - fluidity temperature; and a relative evaluation of the degree of deformation of the material at any given temperature. The curves were plotted over temperature - deformation coordinates by a recorder designed at the Kazan' branch of the Academy of Sciences of the USSR. The thermomechanical curves produced are shown in figures. The CKA (SKD) curve is thought to be influenced by the presence of a crystalline phase. The figures obtained for this rubber under a

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Thermomechanical curves of several rubbers $\frac{s/138/62/000/008/002/007}{A051/A101}$ 32 kgf/cm² load were: $T_g = -115^{\circ}C$, h_g (curve elevation) = 4.5%, $T_f = -22^{\circ}C$, T_k (temperature of penetration) = -7°C. Under a 3.2 kgf/cm² load $T_f = -16^{\circ}C$, $T_k = -1^{\circ}C$. There is 1 table, and one set of graphs.

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I. 9895-63 EPF(c)/EWP(1)/BDS/EWT(m)-ASD-ACCESSION NR: AP3000415 1057/1062 AUTHOR: Dianov, M. P.; Chernova, A. V. 66 TITLE: Ultraviolet absorption spectra of some alkyl and alkaryl naphthalenes SOURCE: AN SSSR. Zhurnal fizicheskoy khimii, v. 37, no. 5, 1963, 1057-1062 TOPIC TAGS: ultraviolet spectra, alkyl naphthalene, alkaryl naphthalene, 2, 3, 6-trimethylnaphthalene, tetramethylnaphthalene AFSTRACT: The UV spectra of 2,3,6-trimethylnaphthalene are in agreement with the corresponding data in the literature on this compound isolated from Rorashkin and Bavlinsk petroleum, but not with the spectra of the compound isolated from Trinidad petroleum. The spectra of 1,2,3,6. and 2,3,6,8. difference in conjugation in these molecules. The spectra of 2,3,6. trimethyl-B-alkyl (i.e. ethyl, n-propyl, n-butyl) naphthalenes have been investigated. Their peaks have been shown to coincide and to possess close absorption values. Spectrophotometric investigation of compounds which in the naphthalene ring contain in addition to methyl substituents also the phenyl Card 1/2

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	showed them .	to be non-coplanar	· Orig. art	. has: 3 fi	gures and 4 te	bles.
ASSOCIAT	ION: Khimic	heskly institut ir	. A. Ye. Arb	uzova, AN SS	SR (Chemical	
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DIANOV, M.P.; CHERNOVA, A.V.

Ultraviolet absorption spectra of some alkyl and alkylaryl napthalenes. Zhur. fiz. khim. 37 no.5:1057-1062 My '63. (MIRA 17:1) 1. Khimicheskiy institut imeni A.Ye Arbuzova AN SSSR.

	<u>L 27185-65</u> EMT(m)/EPF(c)/EFF/EMP(j)/T Pc-4/Ps-4 RPL EM/WW/FM ACCESSION NR: AP5005598
	AUTHOR: Teytel'baum, B. Ya.; Gubanov, E. F.; Adamovich, E. P.; Dianov, M. P.; Makarova, N. N.
	TITLE: Determination of the molecular weight of <u>linear polymers</u> by the thermo- 41 mechanical method 28
	mechanical method SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 2, 1965, 299-304 B
	TOPIC TAGS: thermomechanical method, rubber, molecular weight
	ABSTRACT: A new rapid and accurate method has been proposed for determining the molecular weight of amorphous linear polymers, based on thermomechanical curves. The method is based on the correlation of the temperature (T_k) of the completion of penetration of an indenter into the specimen with the intrinsic viscosity (n) of solutions of the specimen, and, hence, its molecular weight determination is reduced M calibration curve has been plotted, the molecular weight determination is reduced to the plotting of a thermomechanical curve to find T and reading M from the calibration curve. In contrast to existing methods, the new method does not require the determination of the glass-transition flow and temperatures. The correlation
	mination of the glass-transition flow and competitudes. The correlation meric homologs which do not exhibit high elastic properties. The correlation
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سبد ملعد ا	사업을 수는 것 수많은 해야 한 것이 공부가 많다. 동안 같은 것은 것은 것은 비행을 열려 있는 것이 가지 않는 것 같은 것을 가지 않는 것 같이 가지 않는 것 같이 있는 것 같이 없다. 같이 있는 것 같이 있는 것 같이 없는 것 같이 있는 것 같이 없는 것 같이 없는 것 같이 없는 것 같이 없다. 같이 있는 것 같이 없는 것 같이 없다. 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없다. 같이 없는 것 같이 않는 것 같이 않는 것 같이 않는 것 같이 없는 것 같이 않는 것 같이 않는 것 같이 없는 것 같이 없는 것 같이 없는 것 같이 않는 것 않는 것 않는 것 같이 않는 것 않는 것 같이 않는 것 않는 것 않는 것 같이 않는 것 같이 않는 것 않는 것 않는 것 않는 것 않는 않 않는 것 않는 것 않는

L 27185-65 ACCESSION NF: AP5005598 between T, and M or A was (KR-A-type Nairit) and SKI thiocol.) The thermomechanic correlation were determined ASSOCIATION: Institut orga Chemistry, AN SSSR); Khimic Institute, AN SSSR)	I-40 <u>nitrile rubbers</u> , po cal measurement conditio . Orig. art. has: 7 fi	ns which will ensure a relia gures.	able [SM] ic
SUBMITTED: 23Apr64	ENCL: 00	SUB CODE: OC, NP	
NO REF SDV: 006	OTHER: 002	ATD PRESS: 3191	
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L 44386-66 ARG/EWT(d)/FRO/EWP(c)/EWP(h) DE/WM: ACC NR: AN6012193(A,N) SOURCE CODE: UR/9008/65/000/299/0003/0003 AUTHOR: Dianov, P. (Major general of artillary) ORG: none TITLE: <u>Air-to-surface rockets</u> on the attack	36	a sessera de se activitação de ses
TITLE: <u>Air-to-surface rockets</u> on the attack	36	and a second
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SOURCE: Krasnaya zvezda, 21 Dec 65, p. 3, col. 5-7	B	i i E
TOPIC TAGS: air to surface rockets, antiaircraft defense, guided missiles, antiaircraft defense training, military tactics	<u></u>	
ABSTRACT: The three main groups of air-to-surface rockets and the principal models of them in the USA and in Great Britain are analyzed, and means of co- models of them in the USA and in Great Britain are analyzed, and means of co- attack are discussed. Destruction of the missile carrier prior to the launchin attack are discussed. Destruction of the most effective methods, but this is not po- the missile is considered one of the most effective methods, but this is not po- the rocket is launched before the carrier penetrates the active antiaircraft of if the rocket is launched before the carrier penetrates the active antiaircraft provide	ng of ossible defense ied some	
zone. Once it has done so, it may be attacked as an ordinary discussion of the peculiarities are considered. The shorter time that the rocket spends in the	zone oi	
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ACC NR: A N6012193		D
ounterattack requires greater accuracy of computation. o use a maximum of only two rockets to destroy a self- requently only one is needed. Fighter interceptors are a the same manner as they are guided to standard air ta ermits effective opposition to rocket missels, even for peed inferior to that of the rocket. An interceptor guid ipated point in the rocket's flight path, can aim to fire	propelled rock guided to the argets. Auton interceptors ed accurately on the rocket	ket, and rocket missiles natic guidance with a flight to an anti- . In conclusion
ne author stresses that the air-to-surface rockets found ircraft today, are as vulnerable to antiaircraft defense considerable importance is given to the development of a broad and Soviet antiaircraft defense troops should take neir daily military training.	tactics as are air-to-surface	e their carriers e rockets
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DIANOV, F. A.

DIANOV, P. A. -- "Perch in Zaysan Lake (Systematics, Biology, and Commercial Aspects)." Acad Sci Kazakh SSR. Inst of Zoology, Alma-Ata, 1955. (Disser tion for the Degree of Candidate of Biological Sciences.) (Disserta-

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

DIANOV, P.A., kund.biol.nauk

Diet of perch in Lake Zaisan. Trudy AZVI 10:524-534 '57. (MIRA 12:8) 1. Iz kafedry zoologii (zav.kafedroy - kand.biol.nauk B.N. Smirnovskiy) Alma-Atinskogo zoovetinstituta. (Fishes--Food) (Lake Zaisan--Perch)

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DIANOV, P.A., assistent

Propagation of perch in Lake Zaysan (Perca fluviatsilis L.). Trudy AZVI 9:364-379 56. (MIRA 15:4)

1. Iz kafedry zoologii (zav. ksfedroy - kand.biologicheskikh nauk dotsent B.N.Smirnovskiy) Alma-Atinskogo zooveterinarnogo instituta. (Zaysan, Lake-Perch)

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<u>- 64477-65</u>	UR/0354/65/000/008/0050/0052
[CCESSION NR: AP5C20378	634.0.414
WTHOR: Dilanov, P. I. (Interregiona	1 engineer of tree pathology)
TITLE: Experience in combating the	sea buckthorn fly in Altay
SOUNCE: Lesnoye khozyaystvo, no. 8,	
ABSTRACT: An aeronol of 2 kg of 159	5 DDT or 4 kg of 6% DDT in diesel fuel applied
per hectare was found to be an effer	ative insecticide for the sea-buckthorn fly
which is prevalent in the Altay are	a, especially on the islands and shores of the
upper Ob' and Katun' rivers. As the	e berries of sea-buckthorn serve as the main
supply of raw material for the Biys	k vitamin plant, an increase of 100 to 300 tons
per season in yield of berries, foll	owing the use of the insecticide, was of great
importance. The insecticidal solut	ion was sprayed twice during the summer from 3
manual aerosol generators RAG-2 se	t on a light, fast moving launch. Experiments
generator are killed and, at a dis	tance of 250-400 m, 50% are killed. The
aerosol also kills jumping plant 11	Ce, sea-buckthorn moths, green buckthorn aphids,

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required to develop opti fly. Orig. art. has: 1	table and 2 fi	lgures.				
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DIANOV, S.; PETROV, N.

Provide potato storage with a dependable temperature regulation. Sov. torg. 36 no.9:27-30 S 163. (MIRA 16:10)

1. Upravlyayushchiy Sverdlovskim filialom Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy torgovli i obshchestvennogo pitaniya (for Dianov). 2. Glavnyy inzh. proyektov Sverdlovskogo filiala Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy torgovli i obshchestvennogo pitaniya (for Petrov).

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Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 10, p 181 (USSR)

Lopatko, N.F., Dianov, S.V. AUTHORS:

Ultrasonic Flaw Detection of Weld Joints in Austenite Steel TITLE:

PERIODICAL: V sb.: Metody kontrolya kachestva svarn. shvov i konstruktsiy, Leningrad, 1958, pp 109 - 117

The author revealed the possibility of ultrasonic flaw detection in thick ABSTRACT: weld joints as applied to high and low pressure welded rotors of gas turbines. The "UZD-12" flaw detector Hdesigned by the Leningrad Institute of Electrical Engineering was used for tests. The rotor consists of "EI-405" steel disks welded onto each other with "TsT-7" and "TsT-15" electrodes. The seam depth is 90 mm, the width is 45 - 50 mm. After welding the rotor was subjected to stabilization at 850°C, for 10 hours, with subsequent slow cooling. It was not possible to apply ultrasonic oscillations from the side of the base metal by a straight rod in radial direction; they were applied under an angle directly to the seam metal. The author determines the dependence of damping of ultrasonic oscillations in austenite seams on the frequency of oscillations. The coefficient of

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sov/137-59-10-22494 Ultrasonic Flaw Detection of Weld Joints in Austenite Steel

damping of austenite seams is considerably higher than that of pure Fe with relatively coarser grains. It was stated that if $\lambda / D \sim 1$, where λ is the ultrasonic wavelength and D is the grain diameter, the frequency has only a slight effect on damping; this proves the existence of diffusion dispersion. Prismatic double tongs are suggested for operation at lower frequencies. Experiments confirmed that the coarse crystalline structure of built-up metal in stabilized state was able to reflect ultrasonic waves, which were received as defects on the flaw detector screen. The investigations were conducted with the use of ultrasonic oscillations of 2.5 Mc frequency; the radial sound depth was not over 10 - 15 mm. A special flaw detector with a depth gage was designed to detect the depth of the defect location and equipped with a set of double prismatic tongs of a new design, operating at low frequency (0.8 Mc).

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SOV/6158 PHASE I BOOK EXPLOITATION

Seminar "Sovremennyye voprosy fizicheskogo metallovedeniya," Leningrad, 1961.

Sovremennyye voprosy fizicheskogo metallovedeniya; materialy seminara, provedennogo v Leningradskom Dome nauchno-tekhnicheskoy propagandy 9 - 11 maya 1961 g. (Present Problems in Physical Metallurgy; Materials of the Seminar Held in Leningrad House of Scientific and Technical Propaganda, 9 - 11 May 1961). Leningrad, 1962, 60 p. (Series: Leningradskiy Dom nauchno-tekhnicheskoy propagandy. Šektsiya metallovedeniya i termoobrabotki. Seriya: Metallovedeniye i termicheskaya obrabotka) 4500 copies printed.

Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh 1 nauchnykh znaniy RSFSR, and NTO Mashprom Leningradskoye oblastnoye pravleniye. Leningradskiy Dom nauchno-tekhnicheskoy propagandy. Sektsiya metallovedeniya i termoobrabotki. Ed.: N. F. Vyaznikov, Engineer, Candidate of Technical Sciences; Ed. of Publishing House: D. P. Freger; Tech. Ed.: V. A. Bol'shakov.

Card 1/3

DIANOV S.V

Present Problems in Physical Metallurgy; (Cont.) SOV/6158

PURPOSE: This booklet is intended for scientists and engineers interested in physical metallurgy.

COVERAGE: This booklet contains five of the fourteen reports presented at the seminar on "Present Problems of Physical Metallurgy," held in the Leningrad House of Scientific and Technical Propaganda on May 9-11th, 1961. The program of the seminar was worked out by the Organizational Committee under the supervision of Academician N. N. Davidenkov. The reports review a number of new trends in the development of physical metallurgy. No personalities are mentioned. Each report is accompanied by references, mostly Soviet.

TABLE OF CONTENTS:

Mes'kin, V. S. The K-State in Alloys

3

11

(Dianov, S. V. Intraphase Decomposition (K-State) and Its Significance in Modern Alloys

Card 2/3

5

Present Problems in Physical Metallurgy; (Cont.) SOV/6158 Filimonov, P. I. On the Two-Phase Decomposition of Solid Solutions 21 Nadgornyy, E. M. Perfection and Strength of Crystals 34 Likhachev, V. A. Behavior of Noncubic Polycrystalline Metals Under Cyclic Temperature Changes 50 AVAILABLE: Library of Congress SUBJECT: Metals and Metallurgy

Card 3/3

DV/wb/jw 2/7/63

GOSTISHCHEV, V.S.; TREN, B.M.; ZEYTMAN, G.I.; DIANOV, V.F.

Nomogram of the exposure of steel to gamma rays. Zav. lab. 30 (MIRA 18:4) no.10:1281-1282 '64.

l. Bazovaya izotopnaya laboratoriya Severo-Kavkazskogo soveta narodnogo khozyaystva i Taganrogskiy zavod "Krasnyy kotel'shchik".

	ACC NR: AP6036349 (N) SOURCE CODE: UR/0381/66/600/004/0028/0030					
4.7	AUTHOR: Dianov, V. F.					
	ORG: Factory "Krasnyy kotel'shchik", Taganrog (Zavod "Krasnyy kotel'shchik")					
	TITLE: Ultrasonic defectoscopy of butt welds					
	SOURCE: Defektoskopiya, no. 4, 1966, 28-30					
•	TOPIC TAGS: weld defect, ultrasonic flaw detection, ultrasonic inspection, defectoscope/ UDM-1M defectoscope, DUK-11 defectoscope					
ABSTRACT: A method for measuring the coordinates and the size of a defect by us ultrasonic defectoscopes UDM-1M and DUK-11 is described. A slide rule has been developed at the factory for simple and adequately accurate coordinate determina using straight, reflected, or doubly reflected ultrasonic waves. After a brief description of the slide rule, it is suggested that weld quality control of weld than 20 mm thick be based on reflected rays, while control of thicker than 20-mm welds be based on straight and reflected ultrasonic rays. Some experimental dat defect detection and location by using straight and reflected rays are introduce show that the accuracy of detection and coordinate determination can be improved using a detector with a 50° angle of ray incidence. Orig. art. has: 2 figures a table.						
	SUB CODE: 13/ SUEM DATE: O6Nov65/ CRIG REF: O02 Card 1/1 UDC: 620.179.16					

BERSHADSKIY, A.Ye.; DIANOV, V.G.

Automation of a gasoline plant. Trudy MINKHiGP no.52:40-51 164. (MIRA 18:6)

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DIANOV, V.G.; BERSHADSKIY, A.Ye.

Dynamic properties of thermocouples. Trudy MINKHiGP no.52:93-98 164. (MIRA 18:6) (MIRA 18:6)

PANTAYEV, Nikolay Fedorovich; DIANOV, Vladimir Gavrilovich; BIRYUKOV, V.V

> [Principles of the theory of automatic control and automatic controllers] Osnovy teorii avtomaticheskogo regulirovaniia i avtoreguliatory. Moskva, Nedra, 1965. 344 p. (MIRA 18:9)

1. Spetsial'noye konstruktorskoye byuro avtomatizatsii neftepererabotki i neftekhimii (for Biryukov).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410320009-2"

CIA-RDP86-00513R000410320009-2

PANTAYEV, Nikolay Fedorovich; DIANOV, Vladimir Gavrilovich; GOR'KOVA, A.A., vedushchiy red.; MUKHINA, E.A., tekhn.red.

> [Automation in the petroleum industry; elements of the theory and automatic controllers] Avtomaticheskoe regulirovanie v neftianoi promyshlennosti; elementy teorii i avtoreguliatory. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 287 p. (Petroleum industry) (Automatic control) (MIRA 13:2)

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CIA-RDP86-00513R000410320009-2

PANASENKO, A.G., kand.sel'skokhozyaystvennykh nauk; YESYUTIN, G.P., nauchnyy sotrudnik; DIANOV, Y.S. Bootekhnik

> Controlled breeding of heifers of the Aulie-Ata breed on the "Pakhta-Aral Collective Farm." Trudy AZVI 10:58-65 '57. (MIRA 12:8) 1. Iz kufedry krupnogo rogatogo skota (zav.kafedroy - doktor prof. T.F.Tavildarova) Alma-Atinskogo zoovetinstituta, (for Panasenko, Dianov). 2. Yuzhno-Kazakhutanskaya opytnaya stantsiya zhivotnovodstva (for Yesyutin). (Il'ich District (Kazakhstan) --- Cattle breeding)

See also abstr. Ref. Zhur-Biol., No.16, 1958 74011

AS CALVES OF THE AVLIETA BREED WERE RAISED USING HIGHER FEEDING NURMS, THE TIME OF THER FITNESS FOR UTILAZATIN FROM ECONOMIC AND BREEDING DOINTS OF VIEW WERE ACCELERATED, THEIR LIVE WEIGHTS, MILK PRODUCTIVITY AND THE MILK'S FAT CONTENT WERE INCREASED.

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AUTHORS: Amosov, M. M., Dianov, V. V.

TITLE:

Study of the processes of pressing and high-temperature sintering of electrolytic powders of tantalum and niobium

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 38-39, abstract 10292 ("Poroshk. metallurgiya", 1961, no. 3, 14 - 19, English summary)

The authors describe the effect of pressure of pressing upon the \int TEXT: and the porosity of pressed and sintered briquets of Ta and Nb. It is noted that for Ta at 1,000 - 1,600 °C there occurs a vigorous separation of impurities (CO and salts of alkali metals) and an increase of open porosity. For Nb briquets this is not observed, and the open porosity increases only at 2,000 -2,200 °C on account of the elimination of the lower oxides of Nb (the same anomaly of change in porosity is observed also in Ta). The results of the variation in the chemical composition of Ta and Nb moldings after vacuum sintering at 1.000 - 2.700°C (content of Fe, Ni, C, O, the lower oxides, N, H) are cited. R. Andriyevskiy

[Abstracter's note: Complete translation] Card 1/1

$\frac{51071-65}{ACCESSION NR: AP5018269} = \frac{1}{2} \frac{1}{$	
AUTHOR: <u>Amosov, V. M.</u> ; <u>Bobkova, N. N. Dianov, V. V.</u> <u>35 yv</u> TITLE: The dependence of the technological properties of <u>tantalum</u> and <u>niobium</u> on the physicochemical characteristics of the initial powders	
SOURCE: Poroshkovaya metallurgiya, no. 7, 1965, 19-24	
TOPIC TAGS: <u>powder metallurgy</u> ; tantalum powder, niobium powder, tantalum powder size, tantalum powder purity, niobium powier purity, niobium powder size, metal powder pressing	
ABSTRACT: A study is made of the purity and plasticity of Ta and Nb as a function of the grain size and chemical composition of the initial powders. The authors utilized as raw materials the electrolytic powders of varying grain size and purity which were preliminarily fluxed following a previously published procedure (V. M. Amosov, Tsvetnyye metally, no. 6, 65, 1961; Izv. VUZov, "Tsvetnaya metallurgiya," no. 4, 122, 1962). The results cover 1) the degree of pressing during compacting of sintered	
122, 1962). The results cover 1) the degree of pressing during compositing powder; 2) the tensile moldings as a function of the average particle size of the starting powder; 2) the tensile strength of sintered moldings as a function of the particle size; 3) the degree of pressing strength of sintered moldings as a function of the particle size; 3) the degree of pressing	1 1
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