USSR /Chemical Technology. Chemical Products and Their Application I-27

Wood chemistry products. Cellulose and its manufacture. Paper.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32691

dissolution). It is shown that the principal cause which affects the non-transparency of EC film, is the presence of elements of inorganic nature (iron compounds admixtures) and their accumulation in the insoluble fraction of EC.

Card 2/2

STAKHURSKIY, A.

USSR/Radio - Training
Instruction

Aug 49

"Instructions to Aid Leaders of Radio Clubs," V. Borisov, A. Stakhurskiy, 3 pp

"Radio" No 8

Discusses instructional prodedures for training DOSARM members. Recommends course in history of radio and its current state, for background training--to be followed by progressive training with crystal sets, tube sets, transmitters, and VHF equipment. Stresses importance of teaching DOSARM members techniques of reading schematic diagrams and indicates proper techniques for organizing and conducting radio groups.

PA 66/49T107

STAKHURSKIY, A.

33127

V Pomoshch' Rukovoditelzh Radiokruzhka. (Metod I Prakt. Ukazaniya Po Organizatsii Kruzhka I Provedeniyu Zanyatiy). Radio, 1949, No 10, c. 12-13-Okonchaniye. Nachalo: No 8

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

PA 174T94

USSR/Radio - DOSAAM Oct 50
Komsomol

"Radio Clubs in Schools," A. Stakhurskiy, Dir, Cen Sta of Young Technicians imeni N. M. Shver-nik

"Radio" No 10, pp 4-7

Lists measures to implement decree of Tsk VLKSM(b), "Elimination of Student Fatigue by Social and Other Nonscholastic Activities," and resolution of 11th VLKSM Convention, "On Komsomol Work in Schools," namely: practical radio experience for teachers, organization of radio clubs for

174T94

USSR/Radio - DOSAAM (Contd) Oct 50

individual schools classes, practical work like DOSAAM program (e.g., 25 hr to build crystal sets, 50 hr for receivers), training students to build and service school and kolkhoz wired radio installations, etc.

174T94

STAKHURSKIY, A.

STAKHURSKIY, A.Ye. (Moscow).

Extracurricular activities in physics. Fiz.v shkole 7 no.4:53-57 '53. (MLRA 6:11)
(Physics--Study and teaching)

GARBER, K.S., dotsent; NIKITIN, A.I.; LYAUDIS, B.V.; MALINOVSKIY, B.N., kand. tekhn.nauk; BEL'SKIY, O.I.; VOLKOV, L.G.; KUZNETSOV, M.P.; KUTSENKO, A.D., SOROKIN, A.A.; STAKHURSKIY, A.D.; TRUBITSYN, L.M.; TRUSEYEV, A.I.; SHAFRAN, I.K., inzh.; SHESTAK, P.I.; UL'YANOV, D.P.

Automatic control of converter smelting by means of compu' rs. Stal' 23 no. 7:608-610 Jl '63. (MIRA 16:9)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz im. M.I. Arsenicheva (for Garger). 2. Institut kibernetiki AN UkrSSR (for Malinovskiy). 3. Zavod im. Dzerzhinskogo (for Shafran).

SHARNURSKIY, N. I.

Spravochnik po retsepture i farmakoterapii [Handbook on prescriptions and pharmaco-therapy]. Moskva, Mosk. obl. nauch.-issled. klinicheskii in-t, 1952. 235 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

USSR/Microbiology. General Microbiology F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57465

Author : Zhutsidlo L., Stakhuv A., Novakovskaya A., Matskevich I., Rudzkiy E.

Inst : Academy of Sciences of Poland

Title : Chemical and Biological Properties of Cell Membranes of Yeasts and Yeast-like Fungi (Species Candida, Monilia, Cryptococcus, and Geotrichum)

Orig Pub : Byul. Pol'skoy AN, 1956, Otd. 2, 4, No 12, 451-454

Abstract : Insoluble polysaccharides similar to yeast zymase were extracted from the yeast-like fungi Candida albicans, Cryptococcus pulcherrimus, and Geotrichum pulmonale after their separation from the antigen active polysaccharides. They con-

Card 1/2

16

Author : Zhutsidlo, Rudzkiy, Stakhuva, Matskevich, Sobolevskaya

Inst : Not given

Title : Increased Pathogenicity of Typhoid Bacilli and Staphylococci Caused by Mice due to the Effect of Zymosan Prepared from Yeast-like Microorganisms and Yeast.



Orig Pub : Med. doswiad. i mikrobiol., 1957, 9, No 2, 125-130

Abstract : Mice were infected by suspension of typhoid bacilli, strain 0-901, containing 100, 50, 25, 10, 2.5 million and 500 thousand bacteria in 0.2 ml, and by a suspension of staphylococcus, containing 50 million microbial bodies in the same volume. To the infection dose 5 mg of zymosan was added. Zymosan was prepared from a pathogenic strain of Candida albicans, one non-pathogenic strain of Candida, strains of

Card 1/2

POLAND / Microbiology. Microorganisms Pathogenic to Humans and Animals. F-3

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 33805

Abstract : Cryptococcus pulcherrimus, Monilia morlifera, Geotrichum pulmenale. All the zymosans, the inactivating $C_3$ of complement, as well as those which do not act on it, increased the bacterial virulence and hastened destruction of mice by comparison with the control animals. The increase of bacterial virulence by the effect of zymosan the authors explain by the lowering of the nonspecific resistance of the animals due to fall of the properdine level of the blood.

Card 2/2



STAKHUVA,

POLAND/ Microbiology. Microorganisms Pathogenic to Humans and Animals. F-5



Abs Jour: Ref Zhur - Biol., No 6, 1958, 24226

Author : Zhutsidlo, Matskevich, Sobolevskaya, Mankovskaya, Stakhuva.

Inst : Not given

Title : Quantitative Determination of Salmonella Virulence to Mice with the Aid of Zymosan-- A Factor Diminishing Resistance to Infection.

Orig Pub: Med. doswiad. i mikrobiol., 1957, 9, No 2, 131-139

Abstract: A study was conducted on the effect of zymosan (I)-- a polysaccharide obtained from a saprophyte strain of Candida--for sensitivity of mice to infection caused by typhoid, as well as by paratyphoid A and B bacteria. The stimulant's virulence was determined by the smallest dose of live bacteria which caused

Card 1/3

Abstract: hypodermically during the period of the initial hour after infection. A clear additive effect, obtained by combined treatment by I and II of mice in-

STAKIC, M.

Responsibility of the international forwarder for customs violations because of the incorrectly declared freight. Medun transp 8 no.6:450-451 Je '62.

STAKIC, M.

Commission for shipping (written order). Medun transp 8 no.11:821-823 N '62.

STAKIC, Milan

General terms for the shipping services in the international trade of Yugoslavia. Medun transp 9 no.5:301-303 My '63.

STAKIC, Milan

Offer of the international forwarding agent. Medun transp 9 no.10:692 0'63.

STAKIC, M.

Contract on international forwarding. Medun transp 9 no. 11: 762 N '63.

STAKIC, M.

Responsibility of international forwarding agents in case of demurrage. Medun transp 10 no.12:47-48 D '64.

STAKIC, Vojislav

What is influencing the quality of statistical data. PTT Zajed 5 no.2:21-24 Mr-Ap '63.

1. STAKIN, S. V.

2. USSR (600)

4. Iron Founding

7. Heating cast iron in the cupola. Lit.proizv. No. 11 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

Magnetic properties of semiconductors. K. D. Tovstyuk.

This presentation consisted of the following papers:

Anisotropy of susceptibility of semiconductors. K. D. Tovstyuk, E. I. Slynko, I. M. Stakira, O. M. Boretz.

Magnetic and thermomagnetic properties of HgTe, PbTe, HgSe, PbSe. K. D. Tovstyuk, M. P. Gavaleshko, Ya. S. Budzhak, P. M. Starik, P. I. Voronyuk.

Magnetic susceptibility of CdTe and ZnTe. I. V. Potykevich, A. V. Savitskiy.

Magnetic properties of the system HgTe-CdTe. K. D. Tovstyuk, I. M. Rarenko, I. V. Potykevich.

Anisotropy of the thermal conductivity of CdSb. I. M. Pilat, L. I. Anatychyuk.

Electrical, magnetic, and optical properties of the system $In_2Te_3$-CdTe. I. V. Potykevich, A. I. Belyayev, S. V. Chepura.

Properties of crystals of CdSb doped with elements of groups IV and VI. S. M. Sobev.

[illegible] on Semiconductor Compounds,

Thermomagnetic and magnetic properties of PbSe. Ya. S. Budzhak.

Certain anomalous properties of p-type PbTe. P. M. Starik, P. I. Voronyuk.

Galvanomagnetic and thermomagnetic effects in HgTe. N. V. Gavaleshko.

Production and electrical properties of HgSe and the system HgSe-HgTe. I. M. Rarenko, V. M. Nikitenko.

Electrical properties of $In_2Se$. I. M. Stakhira, A. N. Borets.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

Stakorska, Danuta

Category : POLAND/Nuclear Physics - Instruments and Installations. C-2
Methods of Measurement and Investigation.

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 5795

Author : Stakorska, Danuta
Inst : Maria Curie-Sklodowska University, Lublin, Poland.
Title : Temperature Changes and Condensation During Adiabatic Expansions of Air Saturated with Vapor.

Orig Pub : Acta phys. polon., 1956, 15, No 1, 5-23

Abstract : The temperature was measured in a cloud chamber with a resistance thermometer, made of tungsten wire approximately 10 microns thick having an approximate resistance of 690 ohms. The thermometer was connected in a bridge circuit, in which the indicator was an osicllograph. The measurements were made in the presence of a strongly-ionizing compound, or without it, but at a voltage that clears the chamber of ions. In both cases diagrams were obtained for the dependence of the temperature drop $\Delta T$ on the ratio $V_2/V_1$. The condensation threshold is indicated on these curves by the change in the slope.

Card : 1/2

STAKOVA, K.; BESHKOV, S.

Perspectives of the agricultural economy in the Vratsa District. p. 3.
(Kooperatvino Zemedelie, Vol. (12) no. 6, June 1957. Sofiia, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

STAKOVICHENKO, S. A.[Stakovychenko, ]

Use of "Precinyl"-type setton dyes for knit fabrics. Leh.prom. no.1.37-39 Ja-Mr '65. (MIRA 18:4)

STAROVOYTSKAYA, Z.S.

Distribution of some hematological diseases among the population of Kiev Province. Gemat. i perel. krovi 1:203-206 '65.

(MIRA 18:10)

1. Kiyevskiy institut pereliyaniya krovi.

DEMCHENKO, M.L. [Demchenko, M.L.]; STAKOVYCHENKO, N.A. [Stakovychenko, N.O.]

Dyeing of nitron fibers. Leh. prom. no.4:41-43 O-D '65.
(MIRA 19:1)

STAKOVICHENKO, N.O. [Stakovychenko, N.O.]; TSVITKIS, R.S.

Dyeing of warp-knit viscose fabrics with vat dyes by the semi-suspension method in apparatus with intermittent action.
Leh. prom. no.4:25-27 O-D '64 (MIRA 18:1)

STAKOVICHENKO, Ye.L[Stakovychenko, IE.], inzh.

New device for testing reinforced concrete slabs which function with thrust. Bud. mat. i konstr. 4 no.3:56-57 My-Je '62.
(MIRA 15:5)
(Concrete slabs--Testing)

BRAGA, P.P. [Braha, P.P.]; KOTOVA, G.M. [Kotova, H.M.]; STAKOVICHENKO, N.O. [Stakovychenko, N.O.]

Locknit warp fabric for lace and blouses made with synthetic fibers. Leh.prom. no.3:23 Je - Ag '62. (MIRA 16:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut pererabotki iskusstvennogo i sinteticheskogo volokna.
(Synthetic fabrics) (Knit goods)

STAKOVICHENKO, Ye.I., inzh.

Bearing capacity of flat reinforced concrete slabs performing with thrusts. Stroi.konstr. no.1:54-61 '65. (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Gosstroya SSSR, Kiyev.

STAKOVSKIY, V.V.; MYASOYEDOVA, O.M.

Ornithofauna of Dnieper Reservoir. Ornitologiia no.4:260-268 '62.
(MIRA 16:4)
(Dnieper Reservoir region—Birds)

BOYARSKIY, Vasiliy Sil'vestrovich; STAKVEL', L., red.; ZELENKOVA, Ye., tekhn.red.

[Lumber volumes, areas, and production norms] Ob"emy, ploshchadi i normy vykhoda pilomaterialov. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit.USSR, 1960. 574 p. (MIRA 14:2)
(Lumber trade--Tables and ready-reckoners)

BOYARSKIY, Vasiliy Sil'vestrovich; STAKVEL', L.S., red.; GONCHAR, A.S., red.; NARINSKAYA, A.L., tekhn. red.

[Volumes of round logs] Ob"emy kruglykh lesomaterialov. Izd.4., dop. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1961. 565 p. (MIRA 15:4)

(Lumber--Mensuration)

ACCESSION NR: AP4041441 S/0188/64/000/003/0086/0090

AUTHOR: Stakvilevichus, M. I.

TITLE: Particle-like solutions with allowance for gravitation

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 3, 1964, 86-90

TOPIC TAGS: gravity, gravitation, field theory, scalar complex potential, particle-like solution, nonlinear field, field potential, pulse energy tensor

ABSTRACT: The author notes that particle-like solutions in classical nonlinear field theory are convenient in that the field potential and the pulse-energy tensor have no singularities; moreover, the energy of the field is concentrated in a small region of space, a sphere whose radius may be compared with the radius of the elementary particle. In the present article, the author studies the gravitational effect on particle-like solutions for the scalar complex potential, provided the gravitational field is created only by the mass of a spherical symmetrical scalar potential. The author demonstrates that the gravitational effect is inconsequential, if the ratio of the gravitational radius to the radius of the particle is much less than unity. Thus, for a particle with a radius $r_0 \sim 10^{-13}$ cm



Card

ACCESSION NR: AP4041441

and mass $\mu \sim 10^{-27}$ g, the gravitational corrections are approximately $10^{-40}\%$. The result of the investigation has a simple physical sense: if the particle is "spread", the density of its mass is small in comparison with the mass density of a hypothetical particle intruded into the limits of the gravitational radius, and the gravitational forces (as indicated in all texts) are negligibly small in comparison with the other forces which the nonlinear field theory seeks to explain. However, the author notes, it is not quite evident that the energy of all the elementary particles is concentrated within the limits of their classical radius, and for particles whose radius is much smaller than the classical, the gravitational forces may play a substantial role. "In conclusion, I take the opportunity to express my sincere gratitude to Prof. Ya. P. Terletskiy for the interest he has shown and for his guidance of the work." Orig. art. has: 1 figure and 16 numbered formulas.

ASSOCIATION: Kafedra teoreticheskoy fiziki Moskovskogo gosudarstvennogo universiteta (Department of Theoretical Physics, Moscow State University)

SUBMITTED: 06Jul63 ENCL: 00

SUB CODE: GP NO REF SOV: 007 OTHER: 004

L 25689-65 EWP(m)/EWT(1)/EEC(t)/T Po-4/Pq-4/Pg-4/P1-4 IJP(c)
ACCESSION NR: AP5001545 S/0188/64/000/006/0041/0047

36
24
B

AUTHOR: Stakvilevichus, M. I.

TITLE: The existence of particle-like solutions of Einstein's equations for a scalar complex field

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 6, 1964, 41-47

TOPIC TAGS: gravitation theory, Einstein equation, scalar complex field, scalar potential, gravitational potential, elementary particle

ABSTRACT: The author seeks to obtain particle-like solutions of Einstein's equations with the energy-momentum tensor of a scalar, complex potential on the right hand side, commencing with a Lagrangian, and requiring that the solutions be everywhere regular and fall off monotonically at sufficiently great distances. It is shown that the introduction of a scalar field, complex with respect to time, is equivalent to the classical repulsive forces required to remove singularities. It is then possible to obtain explicitly the scalar and gravitational potentials, and numerical values for physical quantities characterizing elementary particles, which can be obtained in the Newtonian approximation for weakly

Card 1/2

L 25689-65
ACCESSION NR: AP5001545

2

gravitating fields. The author does not consider it likely that an exact solution of Einstein's equations with this statement of the problem will yield anything really new, nor that the gravitational forces within elementary particles are significant relative to the other much stronger ones. "The author thanks Ya. P. Terletskiy for his interest in the work." Orig. art. has: 23 equations.

ASSOCIATION: Kafedra statisticheskoy fiziki Moskovskogo Universiteta (Statistical physics department, Moscow State University)

SUBMITTED: 27Nov63 ENCL: 00 SUB CODE: GP, ME

NO REF SOV: 005 OTHER: 004

Card 2/2

[redacted], M.I.

Particle-like solutions allowing for gravitation. Vest. Mosk. un. Ser. 3: Fiz., astron. 19 no.3:86-90 My-Je '64. (MIRA 17:11)

1. Kafedra teoreticheskoy fiziki Moskovskogo universiteta.

PAPERNOV, Lev Zakharovich; STAL', G.N., otv. red.; VEYTSMAN, G.I., red.; CHURAKOVA, V.A., tekhn. red.

[Sound wave propagation in open spaces] Ozvuchenie otkrytykh prostranstv. Moskva, Sviaz'izdat, 1963. 102 p. (MIRA 16:8)

(Electroacoustics) (Sound waves)

AVSEYENOK, A.F.; STAL', L.A., red.; BYKOVA, Zh.A., red.; TOKER, A.M., tekhn.red.

[Brief guide for the organization, equipment, and work of training centers in mining engineering; mining industry] Kratkoe rukovodstvo po organizatsii, oborudovaniiu i rabote uchebnogo kabineta gornogo dela (gornorudnaia promyshlennost'). Moskva, Vses.uchbno-pedagog.izd-vo Trudrezervizdat, 1959. 31 p. (MIRA 12:8)

(Mining engineering--Study and teaching)

ACC NR: AT6027163 (N) SOURCE CODE: UR/2752/66/000/071/0103/0111

AUTHOR: Stal', S. M.

ORG: none

TITLE: Determination of natural oscillation frequencies of freely supported base beams of marine engines

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Trudy, no. 71, 1966. Tekhnicheskaya ekspluatatsiya morskogo flota (Technical operation of the Merchant Marine), 103-111

TOPIC TAGS: marine engine, oscillation, differential equation, vibration frequency, linear function

ABSTRACT: A method is suggested for determining the natural oscillating frequency of the base beams on the basis of the linear dependence between the squares of these frequencies and the critical force causing loss of first order strength. Recommendations for practical calculations are given. It is determined that the differential equations describing the strength loss forms of solid beams and beams with apertures are of the same type. The linear dependence between critical force and square of natural oscillating frequency with free support of ends

Card 1/2 UDC: 629.12.01+621.1/.4:621-216/-218:621-422.2:534.63.001.24

STAL', V.

"Review of I. Ya. Tanatar's Aerology'", Vest. Vozdush. Flota, No. 1, 1949. Engineer-Colonel, Docent, Can. Geog. Sci.

STAL', V.D.

Types of relationship between the substantive and its attributive in the Evenki (Tungus) language. Vest. LGU no.9:146-150 S '47. (MIRA 12:9)
(Tungus language--Attribution)

STALBO KA

LEVCHENKO, G.I., admiral, otvetstvennyy red.; DEMIN, L.A., dots., kand. geogr. nauk, inzh.-kontr-admiral, glavnyy red.; FRUMKIN, N.S., polkovnik, zamestitel' otvetstvennogo red.; ABAN'KIN, P.S., admiral, red.; ALAFUZOV, V.A., prof., kand. voenno-morskikh nauk, admiral, red.; ANAN'ICH, V.Ye., kontr admiral zapasa, red.; ACHKASOV, V.I., kand. istor. nauk, kapitan 1 ranga, red.; BARANOV, A.N., red.; BELLI, V.A., prof., kontr-admiral v otstavke, red.; BESKROVNYY, L.G., prof., doktor istor. nauk, polkovnik zapasa, red.; BOLTIN, Ye.A., kand. voen. nauk, general-mayor, red.; VERSHININ, D.A., kapitan 1 ranga, red.; VITVER, I.A., prof., doktor geogr. nauk, red.; GEL'FOND, G.M., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red., GLINKOV, Ye.G., inzh.-kontr-admiral v otstavke, red.; YELISEYEV, I.D., vitse-admiral, red.; ZOZULYA, F.V., admiral, red.; ISAKOV, I.S., prof., Admiral Flota Sovetskogo Soyuza, red.; KAVRAYSKIY, V.V. [deceased], prof., doktor fiz.-mat. nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., red.; KOZLOV, I.A., dots. kand. voenno-morskikh nauk, kapitan 1 ranga, red.; KOMAROV, A.V., vitse-admiral, red.; KUDRYAVTSEV, M.K., general leytenant tekhnicheskikh voysk, red.; LYUSHKOVSKIY, M.V., dots., kand. istor. nauk, polkovnik, red.; MAKSIMOV, S.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; OKUN', S.B., prof., doktor istor. nauk, red.; ORLOV, B.P., prof., doktor geogr. nauk, red.; PAVLOVICH, N.B., prof., kontr-admiral v otstavke, red.; PANTELEYEV, Yu.A., admiral, red.; PITERSKIY, N.A., kand. voenno-morskikh nauk, kontr-admiral, red.; PLATONOV, S.P., general-leytenant, red.; POZNYAK, V.G., dots., general leytenant, red.; SALISHCHEV, K.A., prof., doktor tekhn. nauk,

(Continued on next card)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652810019-8"

LEVCHENKO, G.I.---(continued) Card 2.
red.; SIDOROV, A.L., prof., doktor istor. nauk., red.; SKORODUMOV, L.A., kontr-admiral, red.; SNEZHINSKIY, V.A., prof., doktor voenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SOLOV'YEV, I.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; STALBO, K.A., kontr-admiral, red.; STEPANOV, G.A. [deceased], dots., vitse-admiral, red.; TOMASHEVICH, A.V., prof., doktor voenno-morskikh nauk, kontr-admiral v otstavke, red.; TRIBUTS, V.F., kand. voenno-morskikh nauk, admiral, red.; CHERNYSHOV, F.I., kontr-admiral, red.; SHVEDE, Ye.Ye., prof. doktor voenno-morskikh nauk, kontr-admiral, red.; CHURBAKOV, A.I., tekhn. red.; VASIL'YEVA, Z.P., tekhn. red.; VIZIROVA, G.N., tekhn. red.; GOROKHOV, V.I., tekhn. red.; GRIN'KO, A.M., tekhn. red.; KUBLIKOVA, M.M., tekhn. red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn. red.; CHERNOGOROVA, L.P., tekhn. red.; GUREVICH, I.V., tekhn. red.; BUKHANOVA, N.I., tekhn. red.; NIKOLAYEVA, I.N., tekhn. red.; RADOVIL'SKAYA, E.O., tekhn. red.; TIKHOMIROVA, A.S., tekhn. red.; BELOCHKIN, P.D., tekhn. red.; LOYKO, V.I., tekhn. red.; ROMANYUK, I.G., tekhn. red.; YAROSHEVICH, K.Ye., tekhn. red.

[Sea atlas] Morskoi atlas. Otv. red. G.I. Levchenko. Glav. red. L.A. Demin. [Moskva] Izd. Glav. shtaba Voenno-morskogo flota. Vol.3. [Military and historical. Pt.1. Pages 1-45] Voenno-istoricheskii. Zamestitel' otv. red. po III tomu N.S. Frumkin. Pt.1. Listy 1-45. 1958. ____ [Military and historical maps, pages 46-52]

(Continued on next card)

IVCHENKO, G.I.---(continued) Card 3.
Voenno-istoricheskie karty, listy 46-52. 1957. (MIRA 11:10)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. 2. Nachal'nik Glavnogo upravleniya geodezii i kartografii Ministerstva vnutrennikh del SSSR (for Baranov). 3. Chlen-korrespondent Akademii nauk SSSR (for Kalesnik). 4. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov).
(Ocean--Maps)

STALBO, K.A., kontr-admiral

Some categories of naval art and sciences in their present form. (MIRA 14:3)
Mor.sbor. 44 no.1:17-25 Ja '61.
(Naval art and science)

BOHUK, A.Ya.; STALBOV, R.Ya.

Use of land evaluation materials in the analysis of the agricultural activities on the collective farms of the Latvian S.S.R. Pochvovedenie no.7:23-28 Jl '64. (MIRA 17:8)

L 32970-65 EWT(m)/EWP(j)/T Pc-4: RM

ACCESSION NR: AP5007179 S/0286/65/000/003/0046/0046

AUTHOR: Kudryavtsev, G. I.; Odnoralova, V. N.; Pivikova, R. D.; Stal'bovskaya, A. V.

TITLE: A method for thermal stabilization of polyamide fibers. Class 29, No. 167952

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 46

22
B

TOPIC TAGS: polymer, fiber, thermal stabilization, polyamide

ABSTRACT: This Author's Certificate introduces a method for thermal stabilization of polyamide fibers by grafting unsaturated acids to the finished fiber at 60-80°C. The grafted fiber is then treated with copper acetate or calcium acetate. The stability of the fiber at high temperatures is increased by using N-formylamidoacrylic acid containing a chelating group in a dimethylformamide solution as the unsaturated acid.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute for Synthetic Fibers)

Card 1/2

STALCER, Branko

SURNAME (in caps); Given Names

(2)

Country: Yugoslavia

Academic Degrees: [not given]

Affiliation: Surgical Section of the Hospital (Kirurski Oddelek Bolnisnice) Novo Mesto; Chief (Sef) Prim Dr Bajc Oton

Source: Ljubljana, Zdravstveni Vestnik, Vol XXX, No 1-2, 1961, pp 24-28

Data: "Our Standpoint on Therapeutic Procedure upon the Admission of Severely Injured Patients."

STALCER, Z.

"A review of the article "Further Contribution to the Conductometric Determination of Carbon Dioxide" by H. Ivekovic and S. Asperger", p. 105 (Arhiv Za Kemiju., Vol. 24, 1952, Zagreb)

East European Vol. 2, No 9
SO: Monthly List of [redacted] Accessions, Library of Congress, September 1953, Uncl.

[illegible], S.

"Rejoinder to the answer to a critical review of the article 'Further Contribution of Conductometric Determination of Carbon Dioxide' by H. Ivekovic and S. Asperger."
Arhiv Za Kemiju, Zagreb, Vol 26, N. 2, July 1954, p. 121

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

BRAZAUSKAS, V.V.; MORYGANOV, P.V.; Prinimala uchastiye STALERAYTITE, G.

Wool dyeing with acid metal-complex dyes of the complex 1:1 type. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.1:103-109 '64. (MIRA 17:5)

1. Ivanovskiy khimiko-tekhnologicheskiy institut.

STALEV, F.

STALEV, F., inzhener.

Simple devices for moving boulders. Avt.transp. 32 no.5:39 My '54. (MLRA 7:7)
(Clearing of land)

STALEV, F., inzh.

School of advanced work methods. Avt.dor. 27 no.11:10-11 N '64.
(MIRA 18:4)

BULGARIA

ARSENYAN, Ye., PASKALEVA-TOMOVA, K., STALEV, S., Scientific Research Group for Tobacco Technology, Plovdiv

"The Study of the Characteristics of Oxidation Processes during the Fermentation of Eastern Tobaccos"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 4, 1966, pp 309-312

Abstract: [Russian article] While the need for tobacco fermentation is fully understood, the characteristics of the actual processes during fermentation are not completely clarified yet. The authors developed a method (Dokl. BAN, 19, 1966, No 3) which eliminates the inactivation of the complex of oxidizing enzymes and used it for the study of seasonal and out-of-season fermentation of tobaccos of varying moisture content. Results show that in all cases the amount of absorbed $O_2$ by the aqueous solution of tobacco is identical. At the same time the oxygen index and the activity of the polyphenoloxidase decrease considerably during the course of fermentation, indicating that the oxygen index marks only the degree of inactivation of the oxidizing enzymes. There are 2 Bulgarian, 7 Soviet, and 5 Western references. (Manuscript received, 15 Jan 66.)

1/1

STALEV, V., inzh.; SOTIROV, K., inzh.

Computing the thickness of pavements. Tekhnika Bulg 3 no.4: 25-28 Ap '54.

L 13625-66 EWT(d)/EWT(m)/EWP(v)/EWP(j)/T/EWP(k)/EWP(h)/EWP(l)/ETC(m) WW/RM

ACC NR: AP6001002 SOURCE CODE: UR/0286/65/000/022/0070/0070

AUTHORS: Bogdanov, A. M.; Kulin, F. I.; Melent'yev, P. V.; Stalevich, A. M.; Tiranov, V. G.

ORG: none

TITLE: Device for mechanical testing of materials. Class 42, No. 176448

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 70

TOPIC TAGS: tensile test, polymer rheology

ABSTRACT: This Author Certificate presents a device for mechanical testing of materials, e.g., polymers, for extensibility. The device contains a system of two clamps for fastening the material sample. One clamp is fixed and is mechanically coupled to the force-measuring instrument. The other clamp is movable in the vertical direction, applies the load to the stretching sample, and is connected to a device for measuring the sample deformation. To automate the process of deformation measurement, the movable clamp is provided with a contact device and a support for free placing of the load on the stretching sample. The contact device in the form of a nut on the screw axle of an electric motor closes the motor circuit when the nut touches the load descending as a result of the sample stretching. The force-measuring element of the device, in the form of an elastic beam, bends under the action of the

Card 1/2 UDC: 620.72

L 13625-66

ACC NR: AP6001002 0

force applied to the upper clamp of the device. A switch on the free end of the beam closes with a contact fastened to a nut placed on the screw axle of an electric motor. When the circuit is closed, motion of the nut mounted on the motor axle continues until the contact is broken.

SUB CODE: 11/ SUBM DATE: 06Apr64

jw

Card 2/2

L 08471-67 EWP(j)/EWT(m) IJP(c) RM/RW

ACC NR: AR6016475 SOURCE CODE: UR/0124/65/000/012/V096/V097

AUTHOR: Melent'yev, P. V.; Znamenskaya, Ye. A.; Pilipenok, D. A.; Stalevich, A. M.; Petryayev, S. V.

34
33
B

TITLE: Deformation properties of polymer materials

SOURCE: Ref. zh. Mekhanika, Abs. 12V829

REF SOURCE: Tr. N.-i. proyektno-konstrukt. in-ta tekhnol. mashinostr., no. 1, 1965, 75-95

TOPIC TAGS: material deformation, polymer physical property, metal deformation, polyethylene plastic

ABSTRACT: The authors point out differences between the deformation properties of polymer materials and metals. The following empirical formula is proposed for curves describing creep in polymers under constant stresses:

$$\varepsilon = a + bt^{0.25}$$

where $\varepsilon$ is deformation, $t$ is time and $a$ and $b$ are the curve parameters. These parameters are linear functions of stress; at low temperatures $T$ the curve parameters vary fairly smoothly as $T$ is raised, but after $T$ reaches some critical value (e. g. 40°C for high-pressure polyethylene) $a$ and $b$ increase sharply with the application of

15

Card 1/2

L 08471-67

ACC NR: AR6016475

heat. An attempt is made to establish a correlation between hardness $H_B$ and the initial modulus $E_0$. The effect which the molecular weight $M$ of polyethylenes has on the characteristics of $E_0$ and $H_B$ was studied in the range $M=5\cdot10^4-9\cdot10^5$. It was found in contrast to previous data (see Alfrey, T., "Mechanical Properties of High Polymers", Moscow, Izd-vo in. lit., 1962) that rigidity has a maximum in the region of moderate $M$. The authors suggest the use of the thermoelastic effect (more precisely, the Joule effect) for determining the initial modulus. In conclusion, data are given on the relaxation properties of various fibers. Bibliography of 10 titles. N. I. Malinin. [Translation of abstract]

SUB CODE: 11, 20

Card 2/2

STALEVICH, M.

New role of the department of labor at the "Elfa" Plant.
Sots. trud 8 no.1:17-26 Ja '63. (MIRA 16:2)

1. Nachal'nik otdela organizatsii truda i zarabotnoy platy vil'nyusskogo zavoda "El'fa."
(Vilna--Electric equipment industry--Production standards)

STALEVSKIY, M.S., starshiy prepodavatel'.

Plotting the line of intersection of two cylinders on the evolute of these cylinders. Nauch.trudy MPI 30(44):175-189 '55. (Cylinder (Mathematics)) (MLRA 9:11)

STALEVSKIY, M.S.

Analytic method for developing the line of intersection of circular and elliptic cylinders with the highest possible accuracy. Trudy NPI 123:21-35 '61. (MIRA 16:2)
(Geometry, Descriptive)

STAIEVSKIY, M.S.

Analytic method for developing the line of intersection of circular and elliptic cylinders with hyperbolic cylinders. Trudy NPI 123:36-43 '61. (MIRA 16:2)
(Geometry, Descriptive)

STALEWSKA-WIELUBSZYC, Irena (Gdansk, ul. Sluza 9/10)

Effect of sodium salicylate on serum prothrombin with special reference to the mode of administration of the drug. Polskie arch. med. wewnetrz. 24 no.5a:877-891 1954.

1. Z III Kliniki Chorob Wewnetrznych Akademii Medycznej w Gdansku. Kierownik: prof. dr med. J.Penson.

(PROTHROMBIN,
eff. of sodium salicylate on level, role of mode of admin.)
(SALICYLATES, effects
sodium salicylate, on prothrombin level, role of mode of admin.)

STALEWSKA, Irena, MARKIEWICA, Janina; NIELUBSZYC, Stanislaw

Remission of acute leukemia associated with tuberculosis. Polskie arch.med.wewn. 25 no.2:369-376 '55.

1. Z III Kliniki Chorob Wewnetrznych A.M. w Gdansku. Kierownik: prof. dr med. J. Penson. Gdansk, III Klinika Chorob Wewnetrznych A.M. ul. Sluza 9/10.

(TUBERCULOSIS, MILIARY, in infant and child, with leukemia, myeloid)
(LEUKEMIA, MYELOCYTIC, in infant and child, with tuberc., disseminated)

STALEWSKA-NIELUBSZYC, Irena; HOROSZEK, Stefania; MIRECKI, Ludwik

Cough syndrome. Polski tygod. lek. 12 no.3:86-89 14 Jan 57.

1. (Z III Kliniki Chorob Wewnetrznych A.M. w Gdansku; kierownik: prof. dr. med. J. Penson). Adres: Sopot, ul. Biela 7/10.
(COUGH
cough synd. (Pol))

STALEWSKA-NIELUBSZYC, Irena

Sodium salicylate level in blood depending upon the route of its introduction into the organism. Polskie arch. med. wewn. 27 no.12: 1637-1647 1957.

1. Z II Kliniki Chorob Wewnetrznych A. M. w Gdansku. Kierownik: prof. J. Penson.

(SODIUM SALICYLATE, in blood
eff. of route of admin. (Pol))

STALEWSKA, Irena; NIEWUBSZYC, Stanislaw

Myocardial infarction in the course of Buerger's disease. Polski tygod. lek. 14 no.40:1788-1789 5 Oct 59.

1. (Z II Kliniki Chorob Wewnetrznych A. M. w Gdansku: kierownik: prof. dr Jakub Penson).
(MYOCARDIAL INFARCT, etiol.) (THROMBOPHLEBITIS OBLITERANS, compl.)

STALEWSKA, Irena; NAZAREWICZ, Teresa

Two cases of malignant melanoma of the skin with chronic circulatory insufficiency induced by cardiac metastases. Polskie arch. med. wewn. 29 no.6:839-844 1959.

1. Z II Kliniki Chorob Wewnetrznych AM w Gdansku Kierownik: prof. dr med. J. Penson i z Zakladu Anatomii Patologicznej AM w Gdansku Kierownik: prof. dr nauk med. W. Czarnocki.
(HEART FAILURE CONGESTIVE, etiol.)(SKIN, neopl.)
(HEART, neopl.) (MELANOMA, compl.)

MOLL, Jan, prof. dr. med.; LUKOMSKA, Barbara; STALEWSKI, Jerzy; SOKOLOWSKI, Konstanty.

Pulmonary resection in tuberculosis. Pol. tyg. lek. 19 no.52: 2003-2005 28 D'64.

1. Z Oddzialu Chirurgii Torakalnej Szpitala Miejskiego im. J. Strusia w Poznaniu (ordynator: prof. dr. med. Jan Moll).

KRASZEWSKA, Zyta; SWITLIK, Ignacy; STALEWSKI, Ryszard; GESTENBERGER, Jadwiga.

Acute poisoning with Ricinus seeds. Pol. tyg. lek. 20 no.8: 279-281 22 F'65.

1. Z II Kliniki Chorob Wewnetrznych Pomorskiej Akademii Medycznej w Szczecinie (kierownik: prof. dr. med. Edward Gorzkowski); z I. Kliniki Chorob Wewnetrznych Pomorskiej Akademii Medycznej w Szczecinie (kierownik: doc. dr. med. Karol Gregorczyk i z III Kliniki Chorob Wewnetrznych Pomorskiej Akademii Medycznej w Szczecinie (kierownik: doc. dr. med. Marek Eisner).

KICZAK, Janina; GOERTZ, Jerzy; KRASZEWSKA, Zyta; STALEWSKI, Ryszard

Reticulosarcoma in chronic myelocytic leukemia. Report of 2 cases. Pol. arch. med. wewnet. 35 no.3:405-409 '65.

1. Z II Kliniki Chorob Wewnetrznych Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. E. Gorzkowski); z I Kliniki Chorob Wewnetrznych Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: doc. dr. med. K. Gregorczyk) i z Zakladu Anatomii Patologicznej Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. K. Stojalowski).

KICZAK, Janina; BRANDOWSKA, Maria; STALEWSKI, Ryszard; WICHERT, Krystyna

Studies on fibrinolysis in leukemias. Pol. arch. med. wewnet. 35 no.6:785-792 '65.

1. Z II Kliniki Chorob Wewnetrznych Pomorskej AM w Szczecinie (Kierownik: prof. dr. med. E. Gorzkowski) i z I Kliniki Chorob Wewnetrznych Pomorskej AM w Szczecinie (Kierownik: doc. dr. med. K. Gregorczyk).

STALEWSKI, Ryszard; STR, Jan; FIWEK, Tadeusz

A case of coexistance of multiple myeloma and pulmonary cancer. Nowotwory 15 no.2:203-207 Ap-Je '65.

1. Z I Kliniki Chorob Wewnetrznych Pomorskiej AM w Szczecinie (Kierownik: doc. dr. med. K. Gregorczyk) i z Zakladu Anatomii Patologicznej Pomorskiej AM w Szczecinie (Kierownik: prof. dr. med. K. Stojalowski).

CZECHOSLOVAKIA

STAMBERG, J; SEVCIK, S

Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 3, March 1966, pp 1009-1016

"Chemical transformations of polymers. Part 3: Selective hydrolysis of a copolymer of diethylene glycol methacrylate and diethylene glycol dimethacrylate."

ACCESSION NR: AP4042814 S/0126/64/018/001/0159/0160

AUTHOR: Voronov, F. F.; Stal'gorova, O. V.

TITLE: Effect of hydrostatic pressure on elastic properties of sintered hard alloys

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 1, 1964, 159-160

TOPIC TAGS: sintered tungsten carbide alloy, VK6 alloy, VK 10 alloy, alloy elastic property, sintered hard alloy, hard alloy elasticity, hard alloy elasticity characteristics, hard alloy Young modulus

ABSTRACT: The effect of hydrostatic pressure of up to 10,000 kg/cm$^2$ on the elastic properties of sintered hard alloys VK-6 (94% WC, 6% Co) and VK-10 (90% WC, 10% Co) has been investigated at 22C using ultrasonic pulses at a frequency of 10 mc. Calculations based on the obtained data showed that all elasticity characteristics (Young's modulus E, shear modulus G, volume elasticity modulus K, Poisson's ratio $\sigma$) and the propagation velocity of longitudinal $v_l$ and transverse $v_s$ ultrasonic waves change linearly with increasing pressure.

Card 1/2



ACCESSION NR: AP4042814

At a pressure of 10,000 kg/cm$^2$, the changes range within 0.5—1.5% and are more pronounced in VK-10 alloy, which is probably associated with the higher cobalt content of the alloy. Changes in the elasticity moduli of sintered VK-8 alloy (92% WC, 8% Co), often used in high-pressure equipment, can be obtained by computing the mean values between analogous values for VK-6 and VK-10 because of the almost linear dependence of the properties of an alloy on its cobalt content. Orig. art. has: 1 table

ASSOCIATION: Institut fiziki vy*sokikh davleniy, AN SSSR (Institute of High Pressure Physics, AN SSSR)

SUBMITTED: 15Oct63 ATD PRESS: 3091 ENCL: 00

SUB CODE: MM, ME NO REF SOV: 007 OTHER: 000

Card 2/2

L 3972-66 EWT(l)/EWT(m)/EPF(n)-2/EWP(t)/EWP(k)/EWP(b)/EWA(c) IJP(c)
ACC NR: AP5024694 JD/WW/HW UR/0056/65/049/003/0755/0759

AUTHOR: Voronov, F. F.; Stal'gorova, O. V.

TITLE: Elastic properties of barium under pressures up to 22,000 kg/cm$^2$

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 3, 1965, 755-759

TOPIC TAGS: elasticity, barium elasticity, rigidity, barium rigidity, solid body elasticity, solid body rigidity, pressurized barium elasticity, ultrasonic elasticity measurement, ultrasonic rigidity measurement

ABSTRACT: The ultrasound pulse method was used for an investigation of the elastic properties of solid bodies over a wide range of pressures. Barium specimens were used in the investigation. The velocity of longitudinal and transverse ultrasonic waves and the Debye temperatures were plotted as functions of pressure. The increase of longitudinal and transverse ultrasound velocities at 22,000 kg/cm$^2$ reached the value of about 8%. All these functions show monotonically a nonlinear growing pressure dependence, with a noticeable jump at 18,000 kg/cm$^2$. The corresponding jump when pressure is decreasing occurs at 17,000 kg/cm$^2$, thus showing a hysteresis loop about 1000 kg/cm$^2$ wide. The pressure increase of density was calculated from the average ultrasonic velocity functions. The modulus of bulk rigidity, the Young modulus, the shear modulus, Poisson coefficients, and Debye temperatures were then deduced from the above data. The density and compressibility (instantaneous and usual) as functions of pressure were compared with the Bridgeman and Yevdokimova-Vereshchagin data and found to

Card 1/2

L 3972-66

ACC NR: AP5024694

be in good agreement. The density increase at 22,000 kg/cm$^2$ was 21%. The bulk rigidity and the Young and shear moduli increased with pressure nonlinearly and their change amounted to 40% at 22,000 kg/cm$^2$. At the phase jump, the Young modulus changed by 1.49, and shear modulus by 1.73%. The pressure dependence of the Debye temperature was also found nonlinear, with the phase jump of 0.63%. The Poisson coefficient, however, showed a 1.11% drop at the phase jump and continued to decrease with increasing pressure, but at a slower rate. The nonlinearity of the pressure dependence of elastic characteristics requires employment of elastic constants of higher than third-order for its description. The same is possibly the case with substances of lesser compressibility within a wider pressure range. The data of the experiments do not explain whether the phase jumps observed are due to a rearrangement of the lattice or to a transition of electrons between energy levels. Orig. art. has: 3 figures, 1 table, and 6 formulas. [FP]

ASSOCIATION: Institut fiziki vysokikh davleniy Akademii nauk SSSR (Institute of High-Pressure Physics, Academy of Sciences, SSSR)

SUBMITTED: 23Apr65 ENCL: 00 SUB CODE: AS, ME

NO REF SOV: 008 OTHER: 005 ATD PRESS: 4118

Card 2/2

L 08498-67 EWT(d)/EWP(e)/EWI(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c) JD/WH
ACC NR: AP6034240 (A) SOURCE CODE: UR/0120/66/000/005/0207/0208

AUTHOR: Voronov, F. F.; Stal'gorova, O. V.

52
B

ORG: Institute of High Pressure Physics AN SSSR, Moscow (Institut fiziki vysokikh davleniy AN SSSR)

TITLE: Investigation of elastic properties of solids under high pressures by the ultrasonic method

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 207-208

TOPIC TAGS: elasticity, solid mechanical property, strain, ultrasonics

ABSTRACT: A compression testing machine is described in which the piezoelectric sensors (quartz plates) are not in contact with the tested object but are attached to the high-pressure pistons, which, at the same time, act as ultrasonic conductors (see Fig. 1). The high-pressure pistons are made either from ShKh15 (or R18) steel or the VK-6 metal-ceramic alloy permitting the test pressure to attain a value of approximately 40kbar. The strain and the propagation time of the ultrasonic wave may be measured as functions of the applied pressure. The applied pressure is measured by a wire strain gage and a manometer with an accuracy of 0.6% at a nominal pressure of 20kbar. The quartz plates measure the longitudinal and transverse velocities of propagation of the ultrasonic wave which are related to the elastic properties of the tested sample. The same method is applicable in conic and belt-type compression chambers in

Card 1/2 UDC: 539.3:681.888

L 08498-67
ACC NR: AP6034240

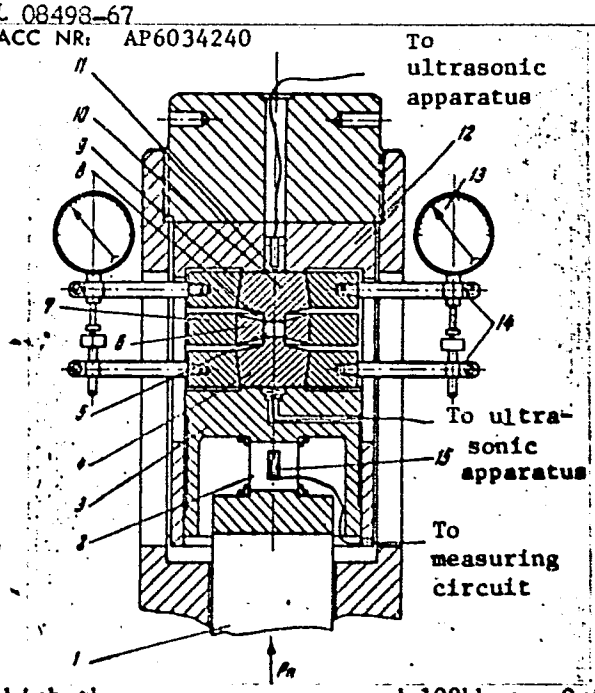


Fig. 1. High-pressure installation.

1) Hydraulic press piston; 2) dynamometer; 3) guiding support; 4) high-pressure piston; 5) tested sample; 6) high-pressure chamber; 7) chamber support; 8) compression rings; 9) piston support; 10) high-pressure piston; 11) quartz plate; 12) guide socket; 13) indicator; 14) rods; 15) wire strain gage.

which the pressure may exceed 100kbar. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 14Oct65/ ORIG REF: 004/ OTH REF: 001/ ATD PRESS: 5103

Card 2/2 afs

L 27822-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6015506 (N) SOURCE CODE: UR/0181/66/008/005/1643/1645

AUTHOR: Voronov, F. F.; Goncharova, V. A.; Stal'gorova, O. V.; Agapova, T. A.

ORG: Institute of High-Pressure Physics, AN SSSR, Moscow (Institut fiziki vysokikh davleniy AN SSSR)

66
B

TITLE: The compressibility of lithium hydride

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1966, 1643-1645

TOPIC TAGS: lithium hydride, high-pressure research

ABSTRACT: Three lithium-hydride specimens were subjected to pressures up to 20 kbar at 298K. The dependance between the relative volume change $\Delta V/V_0$ and pressure p was found to be linear: $\Delta V/V_0 = 4.38 \cdot 10^{-12} p$. The volume change was also determined by the Born model under assumption of the ionic bond in lithium hydride. The calculated values at 20 kbar were 15% lower than the experimental. From the energy of the lithium-hydride lattice ($W_0$ = 218 kcal/mol at 298K and atmospheric pressure) and Born's equation for energy, the value for compressibility was calculated as $3.38 \cdot 10^{-12}$ cm$^2$/dyn, which differed from the experimental ($4.38 \cdot 10^{-12}$ cm$^2$/dyn) by 30%. This disagreement can be explained by the fact that in lithium hydride, the bond is not fully ionic and the Born's model (of central forces) is only a rough approximation. The linear dependence of the volume change on pressure proves that no polymorphic transformation occurs at pressures up to 20 kbar. Orig. art. has: 4 formulas. [WW]

SUB CODE: 11,20/SUBM DATE: 20Dec65/ ORIG REF: 002/ OTH REF: 001/ ATD PRESS: 5003

Card 1/1 PB

ACC NR: AP6026681 SOURCE CODE: UR/0181/66/008/008/2344/2348

AUTHOR: Voronov, F. F.; Chernysheva, Ye. V.; Goncharova, V. A.; Stal'gorova, O. V.

ORG: Institute of Physics of High Pressures, AN SSSR, Moscow (Institut fiziki vysokikh davleniy AN SSSR)

TITLE: The effect of pressures up to 20 kbar on the elastic properties of silver chloride

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2344-2348

TOPIC TAGS: silver chloride, high pressure, Debye temperature, elastic property, Poisson ratio, Young modulus, shear modulus, elasticity, ultrasonic technology

ABSTRACT: The pulsed ultrasonic method has been used to investigate the velocity of longitudinal and transverse waves in silver chloride at pressures of up to 20 kbar. The absolute values were determined for adiabatic and isothermal compliance coefficients ($K_S$, $K_T$), Young's modulus (E), shear modulus (G), Poisson's ratio ($\sigma$), and Debye temperature ($\Theta_D$). Density calculations performed in the Born's approximation were found to be in agreement with the experimental results; however, variations in the experimentally determined values of $K_T$ with pressure did not agree with theoretical data obtained by the same method. It

Card 1/2

L 41143-66

ACC NR: AP6026681

was found that the relative changes of G and E at the maximum pressure were smaller by one order of magnitude than those of $K_T$ and $K_S$. The small increase in G and E was attributed to the instability of silver chloride, which has the same structure as NaCl under pressure. Orig. art. has: 8 formulas, 4 figures, and 1 table. [CS]

SUB CODE: 20/ SUBM DATE: 03Jan66/ ORIG REF: 003/ OTH REF: 005
ATD PRESS: 5054

Card 2/2

KUDINOV, Fedor Nikolayevich; LARINA, V.F., redaktor; STALIDZAN, I.D., redaktor; CHICHERIN, A.N., tekhnicheskiy redaktor.

[Production of stereotype and electrostereotype plates] Stereotipnoe i gal'vanostereotipnoe proizvodstvo. Moskva, Gos. izd-vo "Iskusstvo," 1955. 205 p. (MLRA 8:11)
(Stereotyping)

STALIAN, A.

AGRICULTURE

STALIAN, A. By introducing systematic work in Rumanian industrial units conditions are created for increased production and improved working conditions. p. 27.

Vol. 7, no. 6, Nov. 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1958 Unclass.

S/194/62/000/005/026/157
D256/D308

26.2190

AUTHORS: Štálik, František, and Pintr, Wojtěch

TITLE: Electronic regulator for low gas pressures

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-2-112 d (Czechosl. pat. kl. 42 q, 1/10, no. 93539, 15.01.60)

TEXT: The sensitivity of the conventional hydraulic pressure regulators is inadequate at low pressures and their accuracy of control is insufficient, in addition they are rather bulky since they require gear-wheel pumps rated at 1.1 kW for the oil supply which is usually noisy in operation. The patented electronic regulator has a high sensitivity (7 times higher than that of the hydraulic regulators), is completely noiseless, and its power supply does not exceed 100 W. The circuit diagram and schematic drawings of the arrangement are presented. [Abstractor's note: Complete translation].

Card 1/1

STALIK, Josef, inz.; PLICHTOVA, Kvetuse; SLADEK, Rudolf

Heat treatment of meat and meat products by electric current.
Prum potravin 13 no.12:630-633 D '62.

1. Prumyslova skola technologie masa, Praha.

Glass. Ceramics. Binders, I I-9

Abst Journal : Referat Zhur - Khimiya, No 2, 1957, 5283

Author : Aleksandrov, P., Bogautdinova, G., Kuntsevich, S., Ratinov, V., Rosenberg, T., Stalikova, G.

Institution : All-Union Scientific Research Institute of Reinforced Concrete, Leningrad Institute of Railroad Transport.

Title : New Testing Methods for Building and Molding Gypsum

Original Publication : Stroit. materialy, Izdeliya i konstruktsii, 1956, No 5, 31-33

For Abstract see P. Aleksandrov

STALI KOVA, G. D.

Rheological study of the setting processes of gypsum. V. B. Ratinov, T. I. Rosenberg, G. G. Bogautdinova, and G. D. Stalikova (Sci. Research Inst. Reinforced Concrete and Non-Ore Materials, Moscow). *Kolloid. Zhur.*, 19, 237–41 (1957).—Setting of gypsum occurs in 3 stages. First, its yield stress $\theta$ is small and its viscosity is a linear function of the $H_2O$: $CaSO_4$ ratio. Then, $\theta$ increases with time but the mixt. still can flow at high stresses. Finally the mixt. is a brittle solid.

I. I. Bikerman

SOV/124-58-5-6196

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 161 (USSR)

AUTHORS: Bogautdinova, G.G., Ratinov, V.B., Rozenberg, T.I., Smirnova, I.A., Stalikova, G.D.

TITLE: Effect of Some Organic and Nonorganic Additives on the Plastic Properties of Gypsum (Vliyaniye nekotorykh organicheskikh i neorganicheskikh dobavok na plasticheskiye svoystva gipsa)

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1. Gypsum--Plasticity 2. Organic materials--Performance 3. Inorganic materials--Performance

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New device for measuring plasticity of binding materials. Stroi.mat. 3 no.2:30-31 F '57. (MLRA 10:3)
(Viscosimeter) (Binding materials)

STALIN V.M.

LYSOV, A.P.; STALIN, V.M.; LOKHANIN, K.A.; KHRYAPKIN, N.T., otvetstvennyy redaktor [deceased]; ALADOVA, Ye.I., tekhnicheskiy redaktor.

[The EPM-1 electric rock loader] Elektricheskaia porodopogruzochnaia mashina EPM-1. Izd. 2-e, ispr. i dop. Moskva, Ugletekhizdat, 1954. 210 p. (MLRA 7:10)
(Mining machinery)

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[Mine rock and coal loading machines] Shakhtnye porodopogruzochnye i uglepogruzochnye mashiny. Moskva, Ugletekhizdat, 1955. 379 p. (Coal mining machinery) (MLRA 8:11)

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1. Z Zespolu Nadzoru Specjalistycznego Instytutu Gruzlicy (Kierownik: lek. A. Kwiekowa) (for Lapinska). 2. Sanatorium w Lagiewnikach (for Banaszkiewicz, Stalinska). 3. Sanatorium im. Okrzei w Otwocku (for Dobrucka-Kokinsko, Kalinowski). 4. Sanatorium w Istebnej (for Krosniak, Gwozdz). 5. Sanatorium w Dziekanowie Lesnym (for H. Lutz, J. Lutz). 6. Sanatorium w Dzierzaznie (for Dworak, Naruszewicz).

STALINSKI, B. and TRZEBIATOWSKI, V.

"Magnetic Properties of Titanium Hydrates," Byull. Polskoy Akad. nauk. Otd. III, 1, No 3-4, 1953, pp 127-131

Systematic measurements of susceptibility of the system Ti-H and deuterides Ti-D were carried out at a temperature range from 80 to 300°K, sometimes up to 470°K. With increasing H concentration in the Ti lattice, papamagnetism was found to rise. Properties of hydrates do not substantially differ from those of deuterides.

RZhFiz, No 3, 1955

Stalinski, B.

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4715. Magnetic properties of titanium hydrides. W. TRZEBIATOWSKI AND B. STALIŃSKI. *Bull. Acad. Polon. Sci. Cl. 3*, 1, No. 5, 131–5 (1953).

The magnetic susceptibilities of the titanium-hydrogen system throughout the range Ti to $TiH_{1.98}$ and of three titanium deuterides were determined at temperatures 80°–470°K using a Gouy balance. The paramagnetism generally increases with hydrogen content but minima are observed in the susceptibility isotherm at $TiH_{1.2}$ and $TiH_{1.8}$ and a maximum at $TiH_{1.4}$. These may be attributed to the decoupling of *d*-shells and the increase in total number of electrons. At compositions exceeding $TiH_{1.75}$ a distinct maximum is observed on the χ-temperature curves at about 300°K, and this is taken as a proof of antiferromagnetism.

G. I. W. LLEWELYN

6

ZIALINSKI, B. and Trzebiatowski, W.

"Magnetic Susceptibilities of Niobium Hydrites"
Bull. Polsko. AN, Otd. 3, 1, No 7, 1953, 317-318

The magnetic susceptibility of niobium hydrites was measured by Guy's method. The susceptibility of pure metallic niobium at 292°K equals $2.17.10^6$ gauss/oersted and has a negative thermal coefficient . The susceptibility drops with increasing introduction of H. In spite of a difference in electronic structure, the susceptibility of isotherms of the system Nb-H have similarity to isotherms of Pd-H. (RZhFiz, No 9, 1955)

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Inst. Technol., Wroclaw

Stalinski, B.

*X-Ray Analysis and Magnetic Susceptibilities of Tantalum Hydrides. B. Stalinski (*Bull. Acad. Polon. Sci.*, 1954, [iii], 2, (5), 245–247). [In English]. Lattice const., *a*, of the α phase, and *b* and *c* of the β phase of Ta and 15 Ta hydrides of compn. $TaH_{0\cdot04}$–$TaH_{0\cdot75}$ were determined, together with values of the magnetic susceptibilities, χ at 80° and 290° K. χ of Ta at 290° K. = 0·844 ± 0·005 × $10^{-6}$; the temp. coeff. of χ is small and negative. With increasing H content χ diminishes considerably, attaining the value 0·424 × $10^{-6}$ at the compn. $TaH_{0\cdot75}$. The small negative temp. coeff. of Ta rises with H content. Values of *a* for the α phase of the hydrides range from 3·314 Å. for $TaH_{0\cdot04}$ to 3·363 Å. for $TaH_{0\cdot47}$. Values of *b* for the β phase range from 3·361 Å. for $TaH_{0\cdot233}$ to 3·396 Å. for $TaH_{0\cdot75}$, while values of *c* range from 3·391 to 3·448 Å. for the same range of compn. In general, the magnetic properties of Ta hydrides closely resemble those of Nb hydrides.

—J. S. G. T.

400

STALINSKI, Bohdan N.

8
1 Rml

Magnetic properties of uranium hydride and deuteride. Włodzimierz Trzebiatowski, Alfred Śliwa, and Bohdan Stalinski (Inst. Technol., Wrocław, Poland). *Roczniki Chem.* 28, 12–20(1954)(English summary).—Previous research on $UH_3$ and $UD_3$ was done on decompn. elasticity by Gibb, *et al.* (*C.A.* 47, 3675*i*) and on their unusual lattice by Rundle (*C.A.* 41, 6102*d*; 45, 9362*h*). Now the not yet well known magnetic properties of $UH_3$ and $UD_3$ are investigated, with partial results already published (cf. *C.A.* 46, 10726*c*). Magnetic moments of $UH_3$ and $UD_3$ were detd. from susceptibility coeffs. within the temp. range 190°K.–460°K. according to the Curie-Weiss law with $\mu = 2.44 \pm 0.04\ \mu_0$, using specially designed app. It was found that $UH_3$ below 174°K. and $UD_3$ below 172°K. exhibit ferromagnetic properties. Sylvia Nowinska

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