

ZVIADLADZE, G.N.

Chizhikov, D.M., G.N. Zviadladze, L.A. Ogurtsova, and I.N. Karyazina (Institute of Metallurgy, Academy of Sciences USSR). A Cyclic Method for the Electrolytic Production of Titanium From a Fused Mixture of Chlorides of Sodium and Potassium, p. 113. Titan i yego splavy. vyp. II: Metallurgiya titana (Titanium and Its Alloys. No. 2: Metallurgy of Titanium) Moscow, Izd-vo AN SSSR, 1959. 179 p.

This collection of papers deals with sources of titanium; production of titanium dioxide, metallic titanium, and titanium sheet; slag composition; determination of titanium content in slags; and other related matters. The sources of titanium discussed are the complex sillimanite ores of the Kyakhtinskoye Deposit (Buryatskaya ASSR) and certain aluminum ores of Eastern Siberia. One paper explains the advantages of using ilmenite titanium slags for the production of titanium dioxide by the sulfuric acid method. Production of metallic titanium by thermal reduction processes (hydrogen, magnesium, and carbon reduction) is the subject of several papers, while other papers are concerned with the electrolytic production of titanium. Other subjects dealt with are interaction of titanium with water vapor and with hydrogen and the determination of titanium in slags.

Zviadadze

137-1957-12-23487

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 93 (USSR)
AUTHORS: Ryabov, V. A., Zviadadze, G. N., Altshuler, O. V., Chizhikov, D. M.
TITLE: The Reaction of Titanium With Its Tetrachloride (Vzaimodeystviye
titana s yego tetrakhlidom)

PERIODICAL: Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 85-92

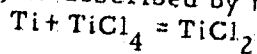
ABSTRACT: A study of the conditions necessary for the formation of the lowest chlorides produced by the reaction of Ti with $TiCl_4$. Twice-distilled $TiCl_4$ was employed in the experiments. The powdered Ti, a metal obtained by means of magnesium-thermal process followed by vacuum distillation, contained 99.7 percent Ti. The partial pressure of the $TiCl_4$ was computed from its loss in the vessel and from the volume of Ar passed in the course of the experiment. The purification of Ar was accomplished by passing it through a layer of Ti-sponge heated to a temperature of $700^\circ - 800^\circ$. Prior to the introduction of the $TiCl_4$ vapors, Ar was blown through the cold reaction tube. The furnace was then turned on and the $TiCl_4$ was introduced into the tube after the necessary experimental temperature was reached. After the

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The Reaction of Titanium With Its Tetrachloride

completion of the reaction, the reaction products were extracted from the tube in an Ar stream and were then investigated. It was established that the reaction of Ti with $TiCl_4$ is affected by the temperature and by the partial pressure of $TiCl_4$. At temperatures between 300 and 500° the reaction produces $TiCl_2$, whereas higher temperatures produce $TiCl_3$ along with $TiCl_2$. The most likely reaction between Ti and $TiCl_4$ in the range investigated (300 - 900°) is described by the formula:



G. S.

1. Titanium reaction
2. Tetrachloride-Applications

Cyclic method for the electrolytic preparation of titanium from its tetrachloride in a fused mixture of sodium and potassium chlorides. Titan i ego splavy no.2:113-118 '59.
(MIRA. 13:6)

1. Institut metallurgii AN SSSR.
(Titanium--Electrometallurgy)

Interaction of selenium with cadmium sulfide. Trudy Inst.met. no.5:
81-84 '60. (MIRA 13:6)

(Cadmium sulfide)
(Selenium)

137-1957-12-23279

Translations from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 60 (USSR)

AUTHORS: Chizhikov, D. M., Zviadadze, G. N., Al'tshuler, O. V.

TITLE: On the Evaporation of Selenium From Its Sulfur Alloys (Ob
isparenii selena iz yegospлавov s seroy)

PERIODICAL: Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 93-100

ABSTRACT: A presentation of experimental results of an investigation of the rate of evaporation of Se from its S alloys, as well as on the condensation of Se from a vapor phase composed of Se and S. Synthetic alloys of S and Se were employed in the experiment; they were obtained by adding appropriate quantities of both stable and active Se to molten S, while the latter was being constantly stirred. The measurement of the evaporation rate of the components of the S-Se alloys was carried out within a temperature range of 98-400°, both under atmospheric pressure and in a vacuum. The rate of evaporation of S and of Se in their alloys increases with temperature. In the sublimation of the solid alloy at 98° the composition of the vapor corresponds to the composition of the solid phase. In the evaporation of the liquid alloy the vapor phase contains approximately one-half as much Se as

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On the Evaporation of Selenium From Its Sulfur Alloys

the liquid phase. During the distillation of the alloy at low temperatures (under vacuum) and at higher temperatures (under atmospheric pressures) the ratio of the separation remains approximately constant ($C_{\text{alloy}}/C_{\text{vapor}} = 1.3-2$). On the strength of the data obtained it was concluded that complex, polyatomic molecules, containing atoms of both components, are formed in the alloys of S and Se.

G. S.

1. Sulfur alloys-Selenium separation
2. Separation-Test methods
3. Separation-Test results

ZVIADZE, G.N.; RISKHLEADZE, V.G.

Kinetics and mechanism of the termal dissociation of arsenopyrite.
Soob. AN Gruz. SSR 32 no. 1:125-132 0 '63. (MIRA 17:9)

1. Institut metallurgii, Tvilisi. Predstavleno akademikom F.N.Tavadze.

CHIZHIKOV, D.M.; ZVIADADZE, G.N.; AL'TSHULER, O.V.

Evaporation of selenium-sulfur alloys. Trudy Inst.met. AN SSSR
no.1:93-100 '57. (Selenium) (Sulfur) (MIRA 10:11)

USSR/Physical Chemistry- Thermodynamics, Thermochemistry, Equilibria,
Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7137.

Author : O.V. Al'tshuler, G.N. Zviadadze, D.M. Chizhikov.

Inst :

Title : Study of Equilibrium Liquid-Vapor in Sulphur-Selenium System.

Orig Pub: Zh. neorgan. khimii, 1957, 2, No 7, 1581-1586.

Abstract: The partial pressures of S and Se vapors on their fuses at 250° were determined by the flow method. The positive divergence of the pressure curve of Se vapor and the great values of Se activity in fuses with S indicate the formation of chemical compounds. At a temperature rise, the behavior of S-Se system fuses approaches the behavior of solutions, the components of which do not produce chemical compounds.

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-15-

TSHUBER, O.V.; ZVIADADZE, G.N.; CHIZHIKOV, D.M.

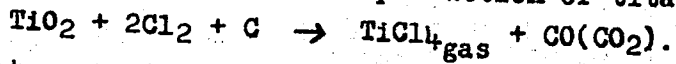
Equilibrium of liquid and vapor in the sulfur-selenium system.
Zhur.neorg.khim. 2 no.7:1581-1586 J1 '57. (MIRA 10:11)
(Phase rule and equilibrium) (Sulfur) (Selenium)

ZVIRINA, R.M.

Species and biology of syrphus flies (fam. Syrphidae) preying on
plant lice in Tashkent Province. Trudy Inst. zool. i paraz. AN Uz.
SSR no.7:101-106 '56. (MIRA 10:11)
(Tashkent Province--Syrphus flies) (Plant lice--Biological control)

S/136/60/000/012/004/010
E193/E183

AUTHORS: Chizhikov, D.M., Zviadadze, G.N., and Korsunskaya, V.N.
TITLE: Reaction Between Titanium Tetrachloride and Titanium Dioxide in the Presence of Carbon
PERIODICAL: Tsvetnyye metally, 1960, No. 12, pp. 42-46
TEXT: The basic reaction in the chlorine process, which is increasingly used in the production of titanium, is:



Whatever modification of the process is employed, secondary reactions take place between titanium tetrachloride and metallic oxide. Rational control of the process is not possible without proper understanding of these reactions, one of which was the object of the present investigation. The experiments consisted in heating a TiO₂-C powder compact in a stream of titanium tetrachloride, mixed in various proportions with dry argon. It was established that under these conditions titanium trichloride and carbon monoxide are formed. The formation of titanium trichloride begins at 900 °C and its rate increases with rising

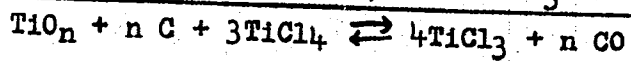
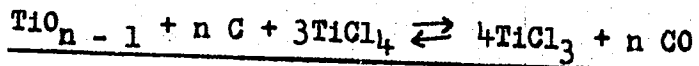
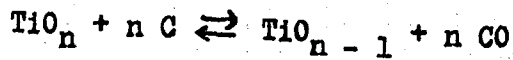
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S/136/60/000/012/004/010
E193/E183

Reaction Between Titanium Tetrachloride and Titanium Dioxide in the Presence of Carbon

temperature. The process can be intensified by increasing the partial pressure of titanium tetrachloride in the $TiCl_4$ -A mixture up to 300 mm Hg; further increase in the partial pressure of $TiCl_4$ brings about only a small increase in the yield of $TiCl_3$. Maximum yield of this compound is obtained when titanium dioxide and carbon are present in equal molar proportions. It was inferred from the experimental data on the kinetics of the process studied, that it constitutes a multi-stage reaction which can be represented by:



S/136/60/000/012/004/010
E193/E183

Reaction Between Titanium Tetrachloride and Titanium Dioxide in
the Presence of Carbon

The results of the present investigation indicate that when the chlorine process is used for treatment of titanium-bearing materials, $TiCl_3$, formed as a result of the secondary reactions, may reduce the yield of titanium tetrachloride. The presence of $TiCl_3$ in gases leaving the chlorinator may cause complications during subsequent condensation. When chlorine is made to react with molten material, losses of titanium and chlorine may occur as a result of dissolution of $TiCl_3$ in $TiCl_4$. On the other hand, the results of the present investigation may provide a basis of a process for production of titanium trichloride which, by itself, is a valuable material.

There are 6 figures and 2 tables.

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ZVIADAPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4

Dissertation: "Extraction of Sodium From Common Salt by Means of Vacuum-Thermic Reduction." Cand Tech Sci, Moscow, Inst of Nonferrous Metals and Gold, Moscow, 1953. (Referativnyy Zhurnal-Khimiya, Moscow, No 5, Mar 54)

SO: SUM 243, 19 Oct 54

5059* Theory of Crushing of Rocks. (Minerals). II. Separation of Particles into Two Fractions and Calculation of the Average Composition of These Fractions. (In Russian.) B. M. Zylgala, R. B. Rozenbaum, O. M. Tules, and A. Z. Iurovskii. *Izvestia Akademii Nauk SSSR, Section of Technical Sciences*, Aug. 1951, p. 1218-1229.

A method is given for determination of the relative number of floated and settled particles during their separation into two fractions. Data are tabulated and charted.

ACC NR: AP6019053

(A)

SOURCE CODE: UR/0078/66/011/002/0433/0436

AUTHOR: Zviadadze, G. N.; Tabatadze, L.S.; Vatsadze, D. V.

ORG: Georgian Institute of Metallurgy (Gruzinskiy institut metallurgii)

TITLE: Reduction of rubidium chloride by calcium-silicon

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 2, 1966, 433-436

TOIPC TAGS: rubidium compound, calcium compound, electrochemical analysis, chemical reaction kinetics, activation energy

ABSTRACT: The reaction of RbCl with calcium-silicon containing 67% CaSi₂ can be expressed in the form of a final reaction: $2\text{RbCl} + \text{CaSi}_2 = \text{CaCl}_2 + 2\text{Rb}$ (1). The Rb was liberated in vacuum in the form of vapors. The process of this reaction was studied by (1) continuous registration of the decrease in the charge weight at constant temperature, and (2) electrochemically by determining the polarization of the calcium silicon electrode in RbCl (polarization current curves vs the value of polarization). The 2 g briquets (15 mm in diameter and 4.5 mm in thickness), which were made by compression at 1000-7500 kg/cm² of the mixtures of calcium silicon and RbCl, were used in the first method, and in the second method liquid calcium silicon was charged into a porcelain tube containing RbCl. The kinetic curves were plotted (degree of reduction vs time) to characterize the reduction of RbCl (1) at 700C in vacuum (2-3 x 10⁻² mm Hg)

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UDC: 546.351131 : 542.942

ACC NR: AP6019053

under various ratios of CaSi_2 : RbCl , and (2) in an Ar atmosphere at 750C and at various residual pressures of Ar (1, 5, and 10 mm Hg). The changes of the CaSi_2 : RbCl ratio within a wide range had little effect on the reduction of RbCl . Therefore, all subsequent experiments were made at CaSi_2 : $\text{RbCl} = 3$. The changes in pressure during briquetting also did not change the reaction parameters. The separate placement of a layer of RbCl under a layer of calcium silicon resulted in a noticeable decrease in the rate of reduction. It was thus concluded that the reduction of RbCl occurred mostly by the reaction of calcium silicon with liquid RbCl . The optimal conditions were achieved during the two-stage reduction: (1) reduction at 750C in Ar atmosphere under an Ar pressure of 5 mm Hg, and (2) creation of a vacuum in the system and further reduction at 900C. About 70% Rb was reduced during the two-stage process. The RbCl which evaporated during reduction concentrated separately from the metal and was recirculated. The two-stage reduction occurred practically without permanent losses of RbCl . The second set of experiments (electrochemical) suggested that the reaction on the boundary of calcium silicon and RbCl occurred in two stages: $\text{CaSi}_2 \rightarrow \text{Ca}^{2+} + 2\text{Si} + 2\text{e}^-$ and $2\text{Rb}^+ + 2\text{e}^- \rightarrow 2\text{Rb}$. The reaction (1) can therefore be considered as the result of the work of a shortcircuited cell. The anode oxidation of the negative Si ions and the cathode reduction of Rb occurred in this cell. The calculation of apparent energy of activation made from polarization curves yielded a value ($E = 19,200$ cal/mole) nearly similar to that of the apparent energy of activation obtained from the kinetic data of the first set of experiments. Orig. art. has: 3 fig. and 2 tables.

SUB CODE: 07/ SUBM DATE: 25May65/ ORIG REF: 006

Card 2/2

ACC NR: AP6033551

SOURCE CODE: UR/0181/66/008/010/2919/2924

AUTHOR: Bendiashvili, N. S.; Buishvili, L. L.; Zviadadze, M. D.

ORG: Institute of Cybernetics, AN GruzSSR, Tbilisi (Institut kibernetiki AN GruzSSR)

TITLE: Contribution to the theory of dynamic polarization and relaxation of nuclei in the case of strong saturation

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2919-2924

TOPIC TAGS: nuclear polarization, spin lattice relaxation, nuclear spin, electron spin, electron spin, quantum statistics, paramagnetic relaxation, *electron polarization*

ABSTRACT: The relaxation and dynamic polarization of nuclei, resulting from paramagnetic impurities, are investigated on the basis of quantum statistics in the case when a strong radio-frequency field is applied to a system of electron spins. The interaction between the electron and nuclear spin subsystems is regarded as a small perturbation. The analysis is based on the construction of the nonequilibrium density matrix by the method developed by D. N. Zubarev (DAN SSSR v. 140, p. 2, 1961). The analysis is limited to the quasistatic case, with the dispersion of the kinetic coefficients neglected. The correlators of the spin operators are calculated. It is shown that the relaxation time increases near resonance, for then exchange of energy between the electron and nuclear systems is greatly reduced. The results indicate

ACC NR: AP6033551

that with increasing amplitude of the radio-frequency field the degree of polarization increases (the temperature of the nuclear subsystem decreases), goes through a maximum, and then decreases. A relation is established between the spin-lattice relaxation time and the position of the maximum. Orig. art. has: 45 formulas.

SUB CODE: 20/ SUBM DATE: 14Feb66/ ORIG REF: 005/ OTH REF: 007

153-B. Theory of Crushing of Rocks
(Minerals). II. Separation of Particles
Into Two Fractions and Calculation
of the Average Composition of These
Fractions. (In Russian.) E. M. Zviagin,
R. B. Rozenbaum, O. M. Tiden, and
A. Z. Iurovskii. *Izvestia Akademi
Nauk SSSR, Section of Technical Sci-
ences*, Aug. 1961, p. 1216-1229.

Method for determination of the
relative number of floated and set-
tled particles during their separation
into two fractions. Data are tabulat-
ed and charted. (B14)

BTR

8365* Theory of Grinding of Minerals. III. Separations of Particles of Coarsely Ground Products Into Two Fractions. (In Russian.) B. M. Zvingin, O. M. Tolst, and A. Z. Iurovskii. *Izvestia Akademii Nauk SSSR, Section of Technical Sciences*, Dec. 1951. p. 1825-1840.
Mathematical analysis plus graphical interpretation.

ASM

225-13. Theory of Grinding of Minerals. III. Separation of Particles of Coarsely Ground Products into Two Fractions. (In Russian.) B. M. Zolotarev, O. M. Todes, and A. Z. Iurovskii. *Izvestiya Akademii Nauk SSSR, Section of Technical Sciences*, Dec. 1951, p. 1825-1840.
Mathematical analysis plus graphical interpretation. (B13)

ZVIAGINTSEV, A.Ye., dots.

Renal dystopia in children. Khirurgiia 32 no.10:58-60 0 '56

(MIRA 12:7)

1. Iz kliniki detskoy khirurgii (zav. - prof. S. D. Ternovskiy)
II Moskovskogo meditsinskogo instituta imeni I.V. Stalina na baze
bol'nitsy imeni N. F. Filatova (glavnyy vrach M. N. Kalugina).

(KIDNEYS, dis. abnorm.
dystopia, surg. in child.)

"Traitement de la pneumonie lobaire par la sulfidine." Pantchenkov, T., Kleiman, S.,
Zviaguine, K., et Amvrossov, K., (p. 411)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume 18, no. 5.

ZVIBEL, R.; MOASA, D.

ZVIBEL, R.; MOASA, D. Semi-industrial attempts at manufacturing cellular concrete blocks in autoclaves. p. 299

Vol. 7, No. 5, May 1956
INDUSTRIA CONSTRUCTIILOR SI A MATERIALELOR DE CONSTRUCTII.
TECHNOLOGY
Bucuresti, Rumania

So: East European Accession, Vol. 6, No. 2, Feb. 1957

APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVILKONIS, Arvids; SACINIKS, Rudis; MAPOZANIS, Janis; SKLENNIKS, G.,
red.; PILADZE, Z., tekhn.red.

[Improvement cuttings in forests of the Latvian S.S.R.]
Kopsanas cirtes Latvijas PSR mezos. Riga, Latvijas PSR
Zinatnu akad.izdevnieciba, 1961. 152 p.

(MIRA 15:2)

(Latvia--Forest management)

ZVIEDRIS, A., (Riga); SATSENIKS, R. [Saceniaks, R.] (Riga)

Effect of climatic factors on the width of the annual rings of
the spruce. In Russian. Vestis Latv ak no.3:177-184 '60. (KEAI 10:7)

1. Akademiya nauk Latviyskoy SSR, In-t lesokhyaystvennykh problem
i khimii drevesiny.
(Spruce)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4
ZVIEDRIS, Arvi Indrikovich; ZUMBERGA, M., red.; PAEULIS, J., tekhn. red.

[Spruce and spruce forests in the Latvian S.S.R.] Egle un egļu meži
Latvijas PSR. Rīga, Latvijas PSR Zinatņu akadēmijas izdevniecība,
1960. 238 p. [In Latvian] (MIRA 14:12)
(Latvia---Spruce)

ZVIEDRIS, Arvid Indrikovich; MATUZANIS, Yanis Kazimirovich; BERZINA, I.,
red.; PILADZE, Z., tekhn. red.

[Forest types in the Latvian S.S.R.] Latvijas PSR meza tipi. Riga,
Latvijas PSR zinatnu Akademijas izdevnieciba, 1960. 90 p.
[In Latvian] (MIRA 14:11)
(Latvia--Forests and forestry)

ZVIEDRIS, A.

Rationalization of forestry on Latvian collective farms. p. 83.

BIOLOGICHESKAIA NAUKA; SELSKOMU I LESNCMU KHOZIAISTVU. (Latvijas PSR
Zinatnu akademijs. Biologijas zinatnu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (EEAI), IC, Vol. 8, No. 8,
August 1959.
Uncla.

ZVIEDRIS, A.

Increasing the assortment of materials produced from aspen plantings. p. 111.

BIOLOGICHESKAJA NAUKA; SELSKOMU I LESNOMU KHOZJAJSTVU. (Latvijas PSR
Zinatnu akademijs. Biologijas zinatnu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (MEAI), IC, Vol. 8, No. 8,
August 1959.
Uncla.

ZVIEDRIS, A.

Voluntary selection cuttings. p. 119.

BIOLOGICHESKAJA NAUKA; SELSKOMU I LESNOMU KHOZJAISTVU. (Latvijas PSR
Zinatnu akademijs. Biologijas zinaynu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (FEAI), IC, Vol. 8, No. 8,
August 1959.
Uncla.

ZVIEDRIS, A.; Broks, J.

Growth of the spruce trunk and the size of the top. p. 101.

LATVILAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 3, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2,
Feb. 1960 Uncl.

ZVIEDRIS, A.

GENERAL

PERIODICALS: VESTIS, No. 5, 1958

ZVIEDRIS, A. Effect of climatic factors on the diametric growth of pine trucks.
p. 37

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

Topography of the spread of suppurative complications of gunshot
osteomyelitis and methods of treatment. Vest. Khir. 84 no. 4:79-
84 Ap '60. (WOUNDS, GUNSHOT) (OSTEOMYELITIS) (MIRA 14:1)

ZVIGAL' SKAYA, M.S., kandidat meditsinskikh nauk, (glavnyy khirurg goroda
Frunze)

Late results of surgery of cicatricial stenosis of the esophagus.
Khirurgiia no.10:73' 0 '55. (MLRA 9:2)

(ESOPHAGUS stenosis,
cicatricial, surgl, remote results)

Local use of penicillin in treatment of osteomyelitis. Sov.med.
22 no.5:108-109 My '58 (MIRA 11:7)
(OSTEOMYELITIS, ther.
penicillin, local admin. (Rus))
(PENICILLIN, ther. use
osteomyelitis, local admin. (Rus))

Stomach - Wounds and injuries

Management of a case of gun-shot wound of the stomach. Sov. med. 16, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November ~~1952~~ 1952. Unclassified.

TYULENEV, Nikolay Konstantinovich; ZVIGINTSEV, P.S., inzh., retsenzent;
YERGINA, M.N., red.; BOGOSLAVETS, N.P., tekhn. red.

[Work organization in a brigade of communist labor] Organizatsia
raboty v brigade kommunisticheskogo truda. Moskv, Mashgiz,
1961. 19 p. (Biblioteka rabochego-mashinostroitel'ia. Seria:
Peredovaia tekhnika - osnova kommunisticheskogo truda, no.12) (MIRA 16:1)

1. Rukovoditel' brigady tokarey v mekhanicheskoi tsekhe
Uralmashzavoda (for Tyulenev).
(Machinery industry—Production standards)

~~SKORUBSKAYA, I.N.~~ ~~DOBISOVA~~; SKORUBSKAYA, I.N., redaktor; RAKOV, S.I.,
tekhnicheskiy redaktor

[Let us increase the production of livestock] Povyshaem produktiv-
nost' skota. [Moskva] Izd-vo VPeSPS Profizdat, 1957. 77 p.

(MLRM 10:10)

1. Glavnyy zootekhnik Kemerovskoy mashinno-traktornoy stantsii,
Khar'kovskoy oblasti (for Zvigel'skaya)
(Stock and stockbreeding)

GONCHAROVA, L.A.; BOCHAROVA, N.M.; KOBRINA, Yu.P.; ZVIGUR, Ye.S.

Effect of yeastlike fungi on the yield and quality of baker's yeast. Mikrobiologiya 34 no.1:157-162 Ja-F '65.

(MIRA 18:7)

1. Leningradskiy mezhotraslevoy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti.

**NOVOTEL'NOV, N.V., dotsent, kand.biologicheskikh nauk; YESHOV, I.S.,
kand.tekhn.nauk; KARASEVA, A.I., inzh.; ZVIGUR, Ye.S., inzh.**

Biological stimulators of barley corn and ways of using
them in the food industry. Trudy LPIKHP 13:7-16 '57.
(MIRA 13:6)

1. Kafedra mikrobiologii i biokhimii Leningradskogo
tekhnologicheskogo inatituta kholodil'noy promyshlennosti.
(Barley)

ZVILICHOVSKAYA, E.E.,
N. S. SMIRNOV, Gosudarst. Nauch.-Issledovatel. Inst. Uro-
Gravidanoterapii Narkomsdrava 1937, No. 1, 52-7.

SURNAME, Given Name

Country: Rumania

(2)

Academic Degrees:

Affiliation: -not given-

Source: Bucharest, Igiena, Vol IX, No 4, Sep-Oct 1961, pp 319-322.

Data: "Distribution of Benzene in a Case of Acute Accidental Poisoning
by Inhalation."

Authors:

IOANID, N., -Prof.-

BORS, Gh., -Conf.-

ZVINCA, Elena, -Pharmacist.-

IOANID, H.; BORS, G.; POPA, I.; ZVINCA, E.; PUCHEA, I.

Study of the injurious substances of the air in steel and iron foundries. Rev. igiena microb. epidem., Bucur. No.2:64-68 Apr-June 54.

(AIR POLLUTION

in steel & iron foundries, contaminants, determ. of concentration in air)

(INDUSTRIAL HYGIENE

air-sampling in steel & iron foundries for determ. of concentration of contaminants)

RUMANIA / Chemical Technology. Chemical Products and Their Application. Safety Engineering. Sanitary Engineering H-6

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, 5175
Author : Ioanid N., Bors Gh., Popa I., Zvinca El.,
Stanoiu I.
Inst : Not Given
Title : Toxicological Analysis of the Air in the Pro-
duction of Furfurol.
Orig Pub : Farmacia (Romin.), 1957, 5, No 1, 18-24
Abstract : The analyses have shown that concentrations of
furfurol exceed the maximum permissible. A
number of prophylactic measures are proposed.
Card : 1/1

5

Determination of sulfur dioxide in air by polarography. E. Zylina-Selegan, L. Carinci, and N. Rasvayanu. *Rev. chim. (Bucharest)* 9, 39-44 (1958). A comparative study was carried out to det. SO_2 in air by polarography, colorimetry, iodometry, conductometry, and nephelometry. The SO_2 was absorbed in water or in a 5% soln. of alc., sugar, or glycerol, and polarographed in the presence of air, from a soln. contg. 3 ml. 0.1N HCl 5 ml., into which 2 drops of 0.1% methyl red was added. The sensitivity limits for the 5 methods were: 0.8 γ for colorimetry, 2 γ for nephelometry, 10 γ for conductometry and polarography, and 14 γ SO_2 for iodometry. Only the nephelometric and polarographic procedures are specific for SO_2 . 10 references. R. M.

ROMANIA

ZVINCA-SELEGEAN, Elena, Chemist.

Bucharest, Igiena, No 4, Jul-Aug 63, pp 353-362

"Determination of Cancerigenic Hydrocarbons in the Atmosphere."

ZURICH, SELEGHAN, ELENA

- 27 (10)
1. "Occupational Cancer of the Intestines Caused by Benzene and its Derivatives," Prof. E. MANTU; Bucharest, ELENA, Vol. XI, No. 1, Jan-Feb 1962 pp. 1-11.
 2. "The Ionization of the Atmosphere in the Vicinity of an Electrical Thermopile Station," N. ZAVRZHEVICI, M. ERICA-SERGIU, Dr. N. SARBU, Dr. G. SAVANU, I. MISCU, M. NIDU and Sr. DIACONESCU; pp. 1-17.
 3. "Notes on the Supply of Drinking Water in Rural Areas by Means of Small Centres; Supply Units (Microcentral Units)," Dr. T. STOLERN and Dr. Emilia ORAVANDELI; pp. 19-25.
 4. "Experimental Investigations on the Toxicity of Certain Chemical Substances Used in the Manufacture of Organic Glass (Plexiglass)," Dr. SILVIA EASON, Dr. G. NIGRESCU, Pina LEON, and Rodica GELBERG; paper presented at the 19th Institute of Hygiene and Public Health (Institute of Hygiene at Sanctoro Tobler PHH), Bucharest; pp. 21-24 (G.M.); pp. 21-20.
 5. "Investigations Concerning Influences of Ionizing Radiations on the Nutritive Value of Proteins and Lipids in Canned Pork," Dr. A. SPAN, Dr. H. RADULEANU, Dr. Institute GRIGORIC-CALINSCU; work performed at the PHH Institute of Hygiene and Public Health (Institute of Hygiene at Sanctoro Tobler PHH), Bucharest; pp. 21-29.
 6. "New Aspects Regarding the Use of Clostridium welchii Bacterium as Sanitary Indicator for Food Products," Dr. Cornelia-IVIRITA; pp. 11-18.
 7. "The Use of Plant Yeasts in Food Toxicology," Elena STROICA-SERGIU, Dr. A. SPAN and Silvia GRIGORIC, THE INSTITUTE OF HYGIENE AND PUBLIC HEALTH (Institute of Hygiene at Sanctoro Tobler PHH), Bucharest; pp. 19-53.
 8. "A Few Observations on Tube Colimetry," Dr. N. ZARBA and Dr. Radu-Daniel IEREN; pp. 55-60.
 9. "Radioactive Pollution of Natural Water Reservoirs," Dr. On. ZARBA; pp. 61-65.

ZVINCA-SELEGEAN, Elena

Study on the pollution and self-purification of surface
waters by aid of biological test on plants. Meteorologia
hidrol gosp 5 no.4:272-277 '60.

ZVINCA-SELEGEAN, Elena

Study on the pollution and self-purification of surface
waters by aid of biological test on plants. Meteorologia
hidrol gosp 5 no.4:272-277 '60.

RUMANIA / Chemical Technology. Chemical Products and H-6
Their Application. Safety and Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1764.

Author : Zvinca — Selegean E., Cariadi, L.

Inst : Not given.

Title : The Polarographic Determination of Sulfur Dioxide in Air.

Orig Pub: Rev. chim., 1958, 9, No 1, 39-44.

Abstract: Experiments concerning the development of a method for the determination of SO_2 (I) in atmospheric air are reported in detail. Polarograms are presented for various concentrations of I (0.1 N HCl solution as the supporting electrolyte), as well as polarograms which were obtained in the presence of various amounts of Cl, NH_3 , and H_2S . The advantage of a polarographic method for the

Card 1/2

RUMANIA / Chemical Technology. Chemical Products and H-6
Their Application. Safety and Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1764.

Abstract: determination of I over nephelometric, colorimetric, iodometric and other methods is emphasized. Graphs and tables are furnished on a comparison of the sensitivity of the mentioned methods. Ten references are given. -- T. Solov'yeva.

Card 2/2

YELISTRATOV, A.M.; ZVINCHUK, R.A.

Appearance and liquidation of heterogeneous regions in single crystals
of (K, Na) Cl solid solutions. Fiz. tver. tela 2 no.10:2370-2383
'60. (MIRA 13:12)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Solutions, Solid) (Potassium chloride crystals)
(Salt crystals)

S/181/60/002/010/006/051
B019/B070

AUTHORS: Yelistratov, A. M. and Zvinchuk, R. A.

TITLE: Formation and Dissolution of Heterogeneous Regions in Single Crystals of Solid Solutions (K,Na) Cl

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2370-2383

TEXT: The decomposition and rehomogenization of solid solutions of (K,Na)Cl whose compositions are nearly in equimolar proportion, were studied here by three methods; 1) By Laue diffraction patterns. 2) By microscopic studies with linearly polarized light in which the time variation of brightness was investigated. 3) By photometric investigations of the opacifying of crystals of solid solutions. In the individual sections of the paper, the authors discuss the changes during decomposition and rehomogenization of the solid solutions in: Laue diagram, state of elastic stresses of the single crystal of equimolar solutions at the beginning of the decomposition, the opacifying of the crystal of equimolar solutions on decomposition, and the relations between the effects observed and their interpretation. Results relating to the time variation and the

Card 1/2

Formation and Dissolution of Heterogeneous
Regions in Single Crystals of Solid Solutions
(K,Na) Cl

S/181/60/002/010/006/051
B019/B070

dependence on temperature of the effects observed lead to the conclusion that the decomposition of the solutions studied here takes place in two stages. In the first stage there appears a spontaneous formation of local heterogeneous regions which are microscopically small. In the second stage, there occurs a recrystallization of the equilibrium phase. The microscopically small regions formed in the first stage grow at the cost of others having the same composition. The stresses between these heterogeneous regions formed in the first stage and their surroundings decrease in the second stage by the growth of the heterogeneous region. The continuity and disorientation are destroyed in the heterogeneous region. Heating of the disintegrated solution above the solubility temperature T_s results in a dissolution of the heterogeneous regions, that is, a rehomogenization takes place. There are 11 figures, 1 table, and 26 references: 5 Soviet, 3 Dutch, 9 German, 7 US, 1 British, and 1 Indian. ✓

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors of the Academy of Sciences USSR, Leningrad)

SUBMITTED: March 17, 1960

Card 2/2

AUTHOR: Zvinchuk, R.A.

SOV/70-3-6-16/25

TITLE: An X-ray Crystallographic Study of the Polymorphism of
Nb₂O₅ (Rentgenograficheskoye issledovaniye polimorfizma
Nb₂O₅)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 6, pp 744 - 747/(USSR) + 1 plate

ABSTRACT: The three forms of Nb₂O₅ were found to have the unit
cells:

α -Nb₂O₅ β -Nb₂O₅ γ -Nb₂O₅

Indexed powder data for the α and β forms are given.
Diffraction symmetry is given in Table 1, p 745.
A crystalline preparation of α -Nb₂O₅ was made by

heating on a Pt wire using the reaction $2\text{NbCl}_5 +$
 $+ 5\text{H}_2\text{O} = \text{Nb}_2\text{O}_5 + 10\text{HCl}$. The temperature was
1 100 - 1 300 °C. After 2 hours at 1 450 °C, the specimen
became transparent and crystals big enough for X-ray work
were obtained. A de Jong-Bouman camera was used to find
the mutual orientation of the crystallites in the star or
octagonal growths. Each growth contained 8 crystals in

Card1/2

SOV/70-3-6-16/25

An X-ray Crystallographic Study of the Polymorphism of Nb_2O_5

4 orientations with the prism faces $(10\bar{1})$ (octagon) or $(10\bar{2})$ (star). The prism axis was b . Heating crystals of the α -form at $600^\circ C$ (2 500 hours), $900^\circ C$ (100 hours) and $1\ 100^\circ C$ (40 hours) did not effect the transformation to the β -phase. Acknowledgments to S.M. Ariya, A.I. Zaslavskiy and A.M. Yelistratov. There are 3 figures, 3 tables and 7 references, 2 of which are Soviet, 2 German and 3 English.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute of Semi-conductors of the Ac.Sc.USSR)

SUBMITTED: April 18, 1958

Card 2/2

ZVINCHUK, R.A.; YELISTRATOV, A.M.

Shape effect in X-ray scattering by single crystals of supersaturated
solid solutions of (K, Na)Cl in process of decomposition.
Kristallografiia 8 no.5:715-723 S-O '63. (MIRA 16:10)

1. Institut poluprovodnikov AN SSSR.

ZVINCHUK, R.A.

X-ray investigation of polymorphism in Nb_2O_5 . Kristallografiia
3 no.6:744-747 '58. (MIRA 12:2)

1. Institut poluprovodnikov AN SSSR.
(Niobium oxides) (X-ray crystallography)

2

B. T. R.
Vol. 3 No. 3
March 1954
Ceramics and Concrete

2919* Reaction of Ta_2O_5 With H_2O , and the Structure of $TaBO_3$. (Russian.) A. I. Zaslavskii and R. A. Zvinel'uk, *Doklady Akademii Nauk SSSR*, v. 90, no. 5, June 11, 1953, p. 781-783. Monocrystals of Ta_2O_5 were extracted from H_2O fusion. Hexagonal tablets with strong birefringence were obtained. Table, diagram, 5 rel.

Leningrad State Univ.

ZASLAVSKIY, A.I.; ZVINCHUK, R.A.; TUTOV, A.G.

X-ray study of the polymorphism of Ta_2O_5 . Dokl. AN SSSR 104 no.3:
409-411 S 155. (MLRA 9:2)

Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.
Predstavleno akademikom N.V. Belevym.
(Tantalum oxides) (Crystallography)

ZVINOGRODSKIY, N.V. (Moskva); KUSHUL', M.Ya. (Moskva).

**Investigating the vibrations of high-speed spindles. Izv. AN SSSR.
Otd. tekhn. nauk no. 10:48-63 0 '56. (MIRA 10:1)**

- 1. Institut mashinovedeniya Akademii nauk SSSR,
(Spinning machinery--Vibration)**

BANAKH, L.Ya. (Moskva); DIMENTBERG, F.M. (Moskva); ZVINOGRODSKIY, N.V.
(Moskva)

Origination of a parametric resonance in a horizontal shaft with
a weight and supported by a bearing with a radial gap. Izv.AN
SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.6:159-162 N-D '61.

(MIRA 14:11)

(Shafting)

PHASE I BOOK EXHIBITION SOV/4415

Исследования шумов 344N. Институт машиноведения
Проблемы прочности и машиноведения. Вып. 6 (Problems of
Strength in Machine Building No. 6) Киев, 1960. 87 p.
3,000 copies printed.

Resp. Ed.: P. M. Dzhambetov, Doctor of Technical Sciences;
Ed. of Publishing House: P. N. Zolotov; Tech. Ed.: I. P.
Kovaleva.

PURPOSE: This collection of articles is intended for engineers
dealing with the problem of machine vibrations.

CONTENT: The collection contains papers which were originally
presented at the Embassy symposium on "Strength and Reliability of
Machines" at 33th Anniversary Council and Seminar for
Research of the Institute of Science of Machines,
Academy of Sciences, USSR, in 1958-59. The following prob-
lems are investigated: vibrations in machines; balancing of
flexible rotors (taking friction into account); the effect
of impulses on flexible shafts connected to the engine; vibra-
tion of a shaft with clearance; separation of frequency
and mode of free vibrations of variable cross-section bars
by means of special functions; and the calculation of self-
excited vibrations in a computer system. No personalities
are mentioned. References accompany individual articles.

Zolotov, V. I. Calculation of Self-Excited Vibrations in the
Presence of Clearance and Coupling Depending on the System of the
Automated Drive of Bridge-Type Computers 55

Dzambetov, P. M., Dzhambetov, and N. V. Zvinogradov.
Vibrations of a Heavy Shaft with (Un)iformly Distributed Mass
and Clearance in One Bearing 68

AVAILABLE: Library of Congress
Card 3/3
VK/dsm/oc
12-19-80

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4
BORIAKOV, D.I.; ZVINIATSKIY, M.B. [deceased]
(Khar'kov)

Variations of pain phenomena in acute closed cerebrocrania trauma.
Vop.neirokhir. 21 no.5:45-50 S-O '57. (MIRA 10:11)
(BRAIN, wounds and injuries,
cerebrocranial, pain phenomena (Rus))

MALYSHEV, G.A.; YEZERSKIY, A.N.; ZVIRBYANSKIY, Ya.I., inzh.,
retsenzent; CHERKINSKIY, I.A., inzh.; nauk, red.;
VASIL'YEVA, I.A., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Fundamentals of the design and manufacture of plastic parts
in the automobile industry] Osnovy proektirovaniya i proiz-
vodstva detalei iz plastmass v avtomobilestroenii. Moskva,
Mashgiz. 1963. 231 p. (MIRA 16:9)
(Automobile industry) (Plastics)

ZORINS, K.; DUNDORS, J.; ZVIRBULIS, H., red.; UDRE, V., tekhn. red.

[Increasing labor productivity is the path to abundance] Darba
raziguma paaugstināsana - cels uz parpilnību. Rīga, Latvijas
Valsts izdevniecība, 1961. 71 p. (MIRA 15:3)
(Latvia--Agriculture--Labor productivity)

BAMBERGS, K., prof., red.; ZVIRBULIS, H., red.; PASTARE, D., tekhn. red.

[Manual for agricultural workers] Rokasgramata Lauksaimniecības darbiniekiem. Prof. K.Bambergas red. Rīga, Latvijas Valsts izdevniecība, 1959. 501 p. [In Latvian] (MIRA 14:12)

1. Latvijas Lauksaimniecības akadēmija (for Bambergas). (Agriculture—Handbooks, manuals, etc.)

MIRHAYLOV, A.M.; GORBUL'SKIY, G.F.; ZVIRBULIS, I.A.

Increasing the wear resistance of steel castings. Lit.proizv. no.4:37-38
Ap '63. (MIRA 16:4)
(Steel castings) (Surface hardening)

Improving the wear resistance of steel castings

S/128/63/000/004/003/004
AOF4/A126

ed with a dense 2 - 3 mm thick metal-corundum coating that formed a tight bond with the base metal. The wear of the corundum-coated track links was by a factor of 2.8 less than that on links coated with the conventional alloy. After 50 h operation the wear of the conventional track links was 1 - 2 mm, whereas no wear could be found on the experimental ones. If more than 6% corundum is added to the coating mixture, the efficiency of the coating layer deteriorates, most probably due to disintegration of the alloy in which case the corundum particles liberated promote the wear of the metal. There are 5 figures.

36903. OSHIN'SH, A, I ZVIRBULIS, V. Vliyaniyye sil'vanola na indeks
opsoninov i na fagotsitarnyye reaktsii v infitsirovannom organizme zhivotnogo.
Izvestiya Akad. nauk Latv. SSR, 1949, No. 10, s. 95-99.--Na latysh.
yaz.-- Rezyume na rus. Yaz.--Bibliogr: 7 nazv.

SO: Letropis' Zhurnal'nykh Statey, Vol. 50. Moskva, 1949

VITKAUSKAS, J., red.; BARANAUSKAS, B., red.; SERKSNYS, J., red.;
ZVIRENAS, A., red.; PETRUSEVICIUS, V., red.; ADOMAVICIUS, B.,
red.; KILAS, M., red.; SARKA, S., tekhn. red.

[Scientific and technical information] Mokslinė - techninė
informacija. Vilnius, Valstybinė politinės ir mokslinės
literatūros leidykla, 1961. 40 p. (MIRA 16:5)

1. Lietuvos žemės ūkio mechanizacijos ir elektrifikacijos
mokslinio tyrimo institutas.
(Lithuania--Agricultural machinery)

VITKAUSKAS, J., red.; ZVIRENAS, A., red.; SERKSNYS, J., red.;
ADOMAVICIUS, B., red.; BARANAUSKAS, B., red.; PETRUSEVICIUS, V.,
red.; GLEVAVICIENE, S., red.

[Problems of the mechanization of agricultural production]
Zemės ūkio gamybos mechanizavimo klausimai. Vilnius, Lietuva
"Mintis," 1964, 118 p. [In Lithuanian] (MIRA 18:2)

1. Lietuvos žemės ūkio mechanizacijos ir elektrifikacijos
mokslinio tyrimo institutas.

ZVIRGZD, A. [Zvirgzds, A.]

"Ornamental shrubs of the central zone" K.V. Kats. Reviewed by
A.Zvirgzds. Bot. zhur. 46 no. 2:291-292 F '61. (MIRA 14:2)

1. Botanicheskiy sad AN Latvyskoy SSR.
(Plants, Ornamental) (Kats, K.V.)

ZVIRGZDS, A.

Using wild apple and pear seedlings for graft stems.

P. 20. (PADOMJU LATVIJAS KOLCHOZNIKES) (Riga, Latvia) Vol. 10, No. 1, Jan. 1958

SO:: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

MORKONS, Miervalds; ZVINGZDS, Andris; ROZINBERGA, R., red.

[New woody plant species introduced into the Latvian S.S.R.]
Jaunas introduceto kokaugu sugas Latvijas PSR. Riga, LPSR
Ainatnu akad. izd-ba, 1963. 93 p. [In Latvian]
(MIRA 17:7)

ZVIYEDRIS, A. [Zviedris, A.]; MATUZANIS, Ya. [Matuzanis, J.]

Characteristics of the fluctuation of the width of annual growth rings of wood species in the Latvian S.S.R. Vestis Latv ak SSR no.8:117-128 '62.

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvyskoy SSR.

ZVIYEDRIS, A. --- Dobrovol'no-vyborochnye rubki v yelovykh lesakh latviyskoy SSR. --- Podpis': A. Zviedris. Trudy in-ta lesokhoz. Problem (Akad. Nauk Latv. SSR), Vyp. 1, 1949, C. 68-109. ---na latyeh. Yaz. ---Rezyume na Rus. Yas. --- Bibliogr: 15 Nazv.

SO: Letopis' Zhrunal'nykh Statey, Vol. 37, 1949.

1. ZVIYEDRIS, A.
2. USSR (600)
4. Latvia - Afforestation
7. Necessary complement to the classification system of afforestation according to soil quality. Latv. PSR Zin. Akad. Vestis 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KALNYN'SH, A. [Kalnins, A.]; ZVIYEDRIS, A. [Zviedris, A.]

Prospects of forestry development in the Latvian S.S.R. Vestis Latv ak
no.8:117-120 '61.

1. Akademiya nauk Latviyskoy SSR, Institut lesokhozyaystvennykh problem
i khimii drevisiny.

VASIL'YEV, P.V., prof., doktor ekon. nauk; PONOMAREV, A.D.; SOLDATOV, A.G.,
kand. sel'khoz. nauk; MOTOVILOV, G.P., doktor sel'khoz. nauk;
NEVZOROV, N.V., kand. ekon. nauk; LOSITSKIY, K.B., kand. sel'khoz.
nauk; RODIONOV, A.Ya., kand. sel'khoz. nauk; CHARKINA, A.P., kand.
sel'khoz. nauk; LUTSEVICH, A.A., kand. sel'khoz. nauk; KOZHEVNIKOV,
M.G., dots.; ALEKSEYEV, P.V., kand. sel'khoz. nauk; ZORIN, A.V.,
aspirant; BARANOV, N.I., kand. sel'khoz.nauk [deceased]; NAUMENKO,
I.M., prof., doktor sel'khoz.nauk; IL'IN, A.I., kand.sel'khoz. nauk;
MOISEYENKO, F.P., kand. biol. nauk; ZAKHAROV, V.K., prof., doktor sel'-
khoz. nauk; GECHIS, Yu.P., starshiy nauchnyy sotr.; EUTENAS, Yu.P.,
kand. sel'khoz. nauk; BUBLIS, K.A., aspirant; KALIN'SH, A.Ya., kand.
sel'khoz. nauk; ZVIYEDRIS, A.I., kand. sel'khoz. nauk; SUKACHEV, V.N.,
akad. red.; ZHUKOV, A.B., prof., red.; PRAVDIN, L.F., prof., red.;
MAKAROVA, L.V., red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Problems of increasing forest productivity in four volumes] Pro-
blemy povysheniya produktivnosti lesov v chetyrekh tomakh. Moskva,
Goslesbumizdat. Vol.4.[Economic problems of increasing forest
productivity and accelerating ripening and cutting ages] Ekonomicheskie
voprosy povysheniya produktivnosti lesov, vozrasty spelosti i vozrasty
rubok. 1961. 253 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Institut lesa. 2. Nachal'nik Glavnoy inspektsii
po lesnomu khozyaystvu i polezashchitnomu lesorazvedeniyu Ministerstva
sel'skogo khozyaystva SSSR (for Ponomarev).
(Forests and forestry--Economic aspects)

ZVIYEDRIS, A. I. -- "Voluntary-Selective Cuttings in Spruce Forests of the Collective Farms of the Latvian SSR." Latvian Agricultural Academy, 1951. In Latvian (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Izvestiya Ak. Nauk Latvyskoy SSR, No. 9, Sept., 1955

KONOVALOVA, M.; ZVIYEDRIS, D. [Zviedris, D.]

**Effect of hydrogen sulfide baths on the peripheral and cerebral
blood circulation in hypotension. Vestis Latv ak no.3:97-104
'62.**

**1. Institut eksperimental'noy i klinicheskoy meditsiny AN Latvyskoy
SSR.**

*

LUKOVSKIY, L.A., zasluzhennyi deyatel' nauki prof.; ZVIZHULEVA, V.Ya.,
vrach-logoped

Review of N.A.Omel'chenko's book "Defective speech and its
connection with anomalies of the maxillo-dental system and
hearing". Zhur.ush. nos. i gorl. bol.23. no.2:85-86 M-Ap'63.
(SPEECH, DISORDERS OF) (STOMATOLOGY) (MIRA 16:8)
(EAR-DISEASES)

YEROFEYEV, B.V.; OSIPENKO, I.F.; DOROSHKVICH, M.N.; ARAPOVA, L.D.;
BIRUL'CHIK, T.N.; ROZENBERG, A.Ya.; ZERNOVA, H.M.; ZVIZZHOV,
V.V.; KATSEVA, N.N.

Antiblock composition for cellophane. Khim. volok. no.4:64-66
'64 (MIRA 18:4)

1. Institut fiziko-organicheskoy khimii AN BSSR (for Yerofeyev,
Osipenko, Doroshkevich, Arapova, Birul'chik). 2. Mogilevskiy
zavod iskusstvennogo volokna (for Rozenberg, Zernova, Zvizzhov,
Katseva).

GUREVICH, M. A.; ZVIZZHOV, V. V.; CHEREUKHIN, K. V.

Machine for cutting fiber wastes. Khim. volok. no.6:58-59
'62. (MIRA 16:1)

(Mogilev--Textile machinery)

BC

Mutual displacement of metals from the vapours of their salts and the application of this process in the fight against corrosion. N. A. ZYAGINSTEY and E. S. SARKISOV (Compt. Rend. Acad. Sci. U.R.S.S., 1933, 18; 437-440).—Specimens of Armeo Fe and of Cr were placed adjacent to one another in a tube furnace and heated in dry HCl at 875-1100°. The CrCl₂ formed was decomposed on the Fe, forming lustrous Cr coatings of controllable thickness, which were resistant to aq. NaCl, moist SO₂ + air, moist H₂S + CO₂ + air, n-HNO₃, and n-AcOH. With n-H₂SO₄ there was a small evolution of H₂. With a similar technique, W given lustrous coatings on Fe, and Ni grey crumbly deposits. Deposition of Ni and Cr together gave lustrous durable coatings. H. J. E.

ASS. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

STEEL

STEEL

STEEL

STEEL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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ZVOCKOV, V.

Complex development of transportation branches in the Soviet Union. Tr. From
the Russian. p. 361. KOZLEDEDESTUDGMANYI SZEMLE. Budapest. Vol. 5, No. 10,
Oct. 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

(1)

YUGOSLAVIA

NEUDAUER, Dr. Joz; ZVOKELJ-KRIZAN, Dr. Breda and STROPNIK, Dr. Zlata;
Department of Internal Medicine, General Hospital (Interni odjel Opce
bolnice), "Dr. Joz Potrc", Ptuj; Regional Institute for National Health
(Oblastni zavod za zdravstvenu zastitu), Maribor and Department of
Microbiology, Medical College (Institut za mikrobiologiju Medicinskog
fakulteta), Ljubljana.

"Mycetoma Due to Nocardia asteroides."

Zagreb, Liječnicki Vjesnik, Vol 87, No 10, Oct 1965; pp 1093-1104.

Abstract [English summary modified]: Description of case in 74 year
old women farmers, ulnar surface of right forearm with open tumor, pain,
fever for three weeks. Surgery and antimicrobial treatment with
penicillin and sulfonamides brought healing. Mycologic diagnosis
Nocardia asteroides. Photograph of patients; of Petri dish, 3 photo-
micrographs; 8 Yugoslav, and 44 Western references. Manuscript received
11 May 65.

CZECHOSLOVAKIA

FABRY, P., HEJDA, S., CERNY, K., OSANKOVA, K., PECHAR, J.,
ZVOLANKOVAK, K; Nutrition Research Institute, Pediatric Faculty,
Charles University (Ustav pro Vyzkum Vyzivy Lidu, Fakulta Detskeho
Lekarstvi KU), Prague.

"The Influence of Food Intake Frequency on Body Proportions and
the Thickness of Epithelium in School Children."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 83-84

Abstract: In grown-ups infrequent heavy meals increase fat
deposition. 226 children, aged 6 - 16 were given 2874-2970
calories per day in 3, 5 or 7 meals. In the age group 11 - 16
3 meals a day led to an increase of weight; in the younger
group no difference was found. The epithelium was thicker in
the children with increased weight. 4 Western, 4 Czech
references. Submitted at "16 Days of Physiology" at Kosice,
30 Sep 65.

CAP, J.; HRUBISKO, M.; ZVOLENSKY, M.

Causes of accidents in exchange transfusions with the use of citrated blood in newborn infants. Bratisl. lek. listy 44 no.4: 246-251 31-Ag '64.

1. Katedra pediatrie II Lek. fak. Univerzity Komenskeho v Bratislave, (veduci prof. MUDr. J. Michalickova) a Fakultna transfuzna stanica v Bratislave (veduci doc. MUDr. M. Hrubisko, C.Sc.).

STIESA, K.; FANTOVA, B.; ZVOISEKA, E.

Effect of emotions on intensity of pain in labor. *Cesk. gyn.* 18 no.3:
217-222 June 1953. (OIML 25:1)

1. Of the First Obstetric Clinic (Head--Prof. K. Klaus, M.D.) of
Charles University, Prague.

S/194/62/000/009/018/100
D201/D308

AUTHORS: Vilim, Jan and Zvolánek, František

TITLE: A time relay

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 9, 1962, abstract 9-2-35 b (Czech. pat., cl. 21c,
44, no. 97831, December 15, 1960)

TEXT: An a.c. relay circuit, providing for control of the drop-out time is patented. The circuit is characterized by a condenser connected in series or in parallel to the winding of the energized relay, forming a resonant circuit, which in its turn is connected in series with a variable resistor. The resonant circuit is shunted by a thermistor in series with a second variable resistor. The resistors are used for controlling the drop-out time of the relay. 2 figures. [Abstracter's note: Complete translation.]

Card 1/1

ZVOLANEK, J.

ZVOLANEK, J. Notes on problems and causes of the inefficacy of the bourgeois forest management. p.l. No. 2, 1956. SBORNÍK RADA C: SPISY FAKULTY LESNÍČKÉ. Brno. Czechoslovakia.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

KRONDL, A.; VAVRINKOVA, H.; PLACER, Z.; Statistické zhodnocení: LYOLANKOVA,

Emilia

Role of the concentration of bile acids in the metabolism of fats.
II. Digestion of fats with different melting points. Cesk. gastroent.
vyz. 15 no.2:112-116 Mr '61.

1. Ustav pro vyzkum vyzivy lidu v Praze, reditel doc. MUDr. Josef
Masek.

(FATS chem) (BILE ACIDS AND SALTS chem)

ZVIADLADZE, G.N.

Chizhikov, D.M., G.N. Zviadladze, L.A. Ogurtsova, and I.N. Karyazina (Institute of Metallurgy, Academy of Sciences USSR). A Cyclic Method for the Electrolytic Production of Titanium From a Fused Mixture of Chlorides of Sodium and Potassium, p. 113. Titan i yego splavy. vyp. II: Metallurgiya titana (Titanium and Its Alloys. No. 2: Metallurgy of Titanium) Moscow, Izd-vo AN SSSR, 1959. 179 p.

This collection of papers deals with sources of titanium; production of titanium dioxide, metallic titanium, and titanium sheet; slag composition; determination of titanium content in slags; and other related matters. The sources of titanium discussed are the complex sillimanite ores of the Kyakhtinskoye Deposit (Buryatskaya ASSR) and certain aluminum ores of Eastern Siberia. One paper explains the advantages of using ilmenite titanium slags for the production of titanium dioxide by the sulfuric acid method. Production of metallic titanium by thermal reduction processes (hydrogen, magnesium, and carbon reduction) is the subject of several papers, while other papers are concerned with the electrolytic production of titanium. Other subjects dealt with are interaction of titanium with water vapor and with hydrogen and the determination of titanium in slags.

Zviadadze

137-1957-12-23487

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 93 (USSR)

AUTHORS: Ryabov, V. A., Zviadadze, G. N., Altshuler, O. V., Chizhikov, D. M.

TITLE: The Reaction of Titanium With Its Tetrachloride (Vzaimodeystviye titana s yego tetrakhlidom)

PERIODICAL: Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 85-92

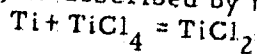
ABSTRACT: A study of the conditions necessary for the formation of the lowest chlorides produced by the reaction of Ti with $TiCl_4$. Twice-distilled $TiCl_4$ was employed in the experiments. The powdered Ti, a metal obtained by means of magnesium-thermal process followed by vacuum distillation, contained 99.7 percent Ti. The partial pressure of the $TiCl_4$ was computed from its loss in the vessel and from the volume of Ar passed in the course of the experiment. The purification of Ar was accomplished by passing it through a layer of Ti-sponge heated to a temperature of $700^\circ - 800^\circ$. Prior to the introduction of the $TiCl_4$ vapors, Ar was blown through the cold reaction tube. The furnace was then turned on and the $TiCl_4$ was introduced into the tube after the necessary experimental temperature was reached. After the

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137-1957-12-23487

The Reaction of Titanium With Its Tetrachloride

completion of the reaction, the reaction products were extracted from the tube in an Ar stream and were then investigated. It was established that the reaction of Ti with $TiCl_4$ is affected by the temperature and by the partial pressure of $TiCl_4$. At temperatures between 300 and 500° the reaction produces $TiCl_2$, whereas higher temperatures produce $TiCl_3$ along with $TiCl_2$. The most likely reaction between Ti and $TiCl_4$ in the range investigated (300 - 900°) is described by the formula:



G. S.

1. Titanium reaction
2. Tetrachloride-Applications

Cyclic method for the electrolytic preparation of titanium from its tetrachloride in a fused mixture of sodium and potassium chlorides. Titan i ego splavy no.2:113-118 '59.
(MIRA. 13:6)

1. Institut metallurgii AN SSSR.
(Titanium--Electrometallurgy)

Interaction of selenium with cadmium sulfide. Trudy Inst.met. no.5:
81-84 '60. (MIRA 13:6)

(Cadmium sulfide)
(Selenium)

137-1957-12-23279

Translations from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 60 (USSR)

AUTHORS: Chizhikov, D. M., Zviadadze, G. N., Al'tshuler, O. V.

TITLE: On the Evaporation of Selenium From Its Sulfur Alloys (Ob
isparenii selena iz yegospлавov s seroy)

PERIODICAL: Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 93-100

ABSTRACT: A presentation of experimental results of an investigation of the rate of evaporation of Se from its S alloys, as well as on the condensation of Se from a vapor phase composed of Se and S. Synthetic alloys of S and Se were employed in the experiment; they were obtained by adding appropriate quantities of both stable and active Se to molten S, while the latter was being constantly stirred. The measurement of the evaporation rate of the components of the S-Se alloys was carried out within a temperature range of 98-400°, both under atmospheric pressure and in a vacuum. The rate of evaporation of S and of Se in their alloys increases with temperature. In the sublimation of the solid alloy at 98° the composition of the vapor corresponds to the composition of the solid phase. In the evaporation of the liquid alloy the vapor phase contains approximately one-half as much Se as

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137-1957-12-23279

On the Evaporation of Selenium From Its Sulfur Alloys

the liquid phase. During the distillation of the alloy at low temperatures (under vacuum) and at higher temperatures (under atmospheric pressures) the ratio of the separation remains approximately constant ($C_{\text{alloy}}/C_{\text{vapor}} = 1.3-2$). On the strength of the data obtained it was concluded that complex, polyatomic molecules, containing atoms of both components, are formed in the alloys of S and Se.

G. S.

1. Sulfur alloys-Selenium separation
2. Separation-Test methods
3. Separation-Test results

ZVIADZE, G.N.; RISKHLEADZE, V.G.

Kinetics and mechanism of the termal dissociation of arsenopyrite.
Soob. AN Gruz. SSR 32 no. 1:125-132 0 '63. (MIRA 17:9)

1. Institut metallurgii, Tvilisi. Predstavleno akademikom F.N.Tavadze.

CHIZHIKOV, D.M.; ZVIADADZE, G.N.; AL'TSHULER, O.V.

Evaporation of selenium-sulfur alloys. Trudy Inst.met. AN SSSR
no.1:93-100 '57. (Selenium) (Sulfur) (MIRA 10:11)

USSR/Physical Chemistry- Thermodynamics, Thermochemistry, Equilibria,
Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7137.

Author : O.V. Al'tshuler, G.N. Zviadadze, D.M. Chizhikov.

Inst :

Title : Study of Equilibrium Liquid-Vapor in Sulphur-Selenium System.

Orig Pub: Zh. neorgan. khimii, 1957, 2, No 7, 1581-1586.

Abstract: The partial pressures of S and Se vapors on their fuses at 250° were determined by the flow method. The positive divergence of the pressure curve of Se vapor and the great values of Se activity in fuses with S indicate the formation of chemical compounds. At a temperature rise, the behavior of S-Se system fuses approaches the behavior of solutions, the components of which do not produce chemical compounds.

Card : 1/1

-15-

TSUBER, O.V.; ZVIADADZE, G.N.; CHIZHIKOV, D.M.

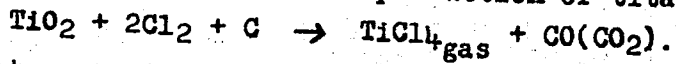
Equilibrium of liquid and vapor in the sulfur-selenium system.
Zhur.neorg.khim. 2 no.7:1581-1586 J1 '57. (MIRA 10:11)
(Phase rule and equilibrium) (Sulfur) (Selenium)

ZVIRINA, R.M.

Species and biology of syrphus flies (fam. Syrphidae) preying on
plant lice in Tashkent Province. Trudy Inst. zool. i paraz. AN Uz.
SSR no.7:101-106 '56. (MIRA 10:11)
(Tashkent Province--Syrphus flies) (Plant lice--Biological control)

S/136/60/000/012/004/010
E193/E183

AUTHORS: Chizhikov, D.M., Zviadadze, G.N., and Korsunskaya, V.N.
TITLE: Reaction Between Titanium Tetrachloride and Titanium Dioxide in the Presence of Carbon
PERIODICAL: Tsvetnyye metally, 1960, No. 12, pp. 42-46
TEXT: The basic reaction in the chlorine process, which is increasingly used in the production of titanium, is:



Whatever modification of the process is employed, secondary reactions take place between titanium tetrachloride and metallic oxide. Rational control of the process is not possible without proper understanding of these reactions, one of which was the object of the present investigation. The experiments consisted in heating a TiO_2 -C powder compact in a stream of titanium tetrachloride, mixed in various proportions with dry argon. It was established that under these conditions titanium trichloride and carbon monoxide are formed. The formation of titanium trichloride begins at 900 °C and its rate increases with rising

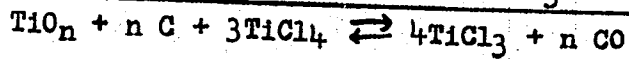
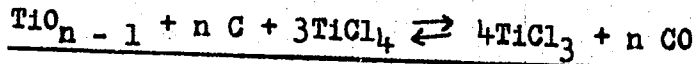
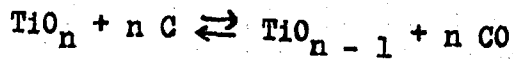
Card 1/3

✓

S/136/60/000/012/004/010
E193/E183

Reaction Between Titanium Tetrachloride and Titanium Dioxide in the Presence of Carbon

temperature. The process can be intensified by increasing the partial pressure of titanium tetrachloride in the $TiCl_4$ -A mixture up to 300 mm Hg; further increase in the partial pressure of $TiCl_4$ brings about only a small increase in the yield of $TiCl_3$. Maximum yield of this compound is obtained when titanium dioxide and carbon are present in equal molar proportions. It was inferred from the experimental data on the kinetics of the process studied, that it constitutes a multi-stage reaction which can be represented by:



S/136/60/000/012/004/010
E193/E183

Reaction Between Titanium Tetrachloride and Titanium Dioxide in
the Presence of Carbon

The results of the present investigation indicate that when the chlorine process is used for treatment of titanium-bearing materials, $TiCl_3$, formed as a result of the secondary reactions, may reduce the yield of titanium tetrachloride. The presence of $TiCl_3$ in gases leaving the chlorinator may cause complications during subsequent condensation. When chlorine is made to react with molten material, losses of titanium and chlorine may occur as a result of dissolution of $TiCl_3$ in $TiCl_4$. On the other hand, the results of the present investigation may provide a basis of a process for production of titanium trichloride which, by itself, is a valuable material. There are 6 figures and 2 tables.

Card 3/3

ZVIADAPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4

Dissertation: "Extraction of Sodium From Common Salt by Means of Vacuum-Thermic Reduction." Cand Tech Sci, Moscow, Inst of Nonferrous Metals and Gold, Moscow, 1953. (Referativnyy Zhurnal-Khimiya, Moscow, No 5, Mar 54)

SO: SUM 243, 19 Oct 54

5059* Theory of Crushing of Rocks. (Minerals). II. Separation of Particles into Two Fractions and Calculation of the Average Composition of These Fractions. (In Russian.) B. M. Zylgala, R. B. Rozenbaum, O. M. Tules, and A. Z. Iurovskii. *Izvestia Akademii Nauk SSSR, Section of Technical Sciences*, Aug. 1951, p. 1218-1229.

A method is given for determination of the relative number of floated and settled particles during their separation into two fractions. Data are tabulated and charted.

ACC NR: AP6019053

(A)

SOURCE CODE: UR/0078/66/011/002/0433/0436

AUTHOR: Zviadadze, G. N.; Tabatadze, L.S.; Vatsadze, D. V.

ORG: Georgian Institute of Metallurgy (Gruzinskiy institut metallurgii)

TITLE: Reduction of rubidium chloride by calcium-silicon

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 2, 1966, 433-436

TOIPC TAGS: rubidium compound, calcium compound, electrochemical analysis, chemical reaction kinetics, activation energy

ABSTRACT: The reaction of RbCl with calcium-silicon containing 67% CaSi₂ can be expressed in the form of a final reaction: $2\text{RbCl} + \text{CaSi}_2 = \text{CaCl}_2 + 2\text{Rb}$ (1). The Rb was liberated in vacuum in the form of vapors. The process of this reaction was studied by (1) continuous registration of the decrease in the charge weight at constant temperature, and (2) electrochemically by determining the polarization of the calcium silicon electrode in RbCl (polarization current curves vs the value of polarization). The 2 g briquets (15 mm in diameter and 4.5 mm in thickness), which were made by compression at 1000-7500 kg/cm² of the mixtures of calcium silicon and RbCl, were used in the first method, and in the second method liquid calcium silicon was charged into a porcelain tube containing RbCl. The kinetic curves were plotted (degree of reduction vs time) to characterize the reduction of RbCl (1) at 700C in vacuum ($2-3 \times 10^{-2}$ mm Hg)

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UDC: 546.351131 : 542.942

ACC NR: AP6019053

under various ratios of CaSi_2 : RbCl , and (2) in an Ar atmosphere at 750C and at various residual pressures of Ar (1, 5, and 10 mm Hg). The changes of the CaSi_2 : RbCl ratio within a wide range had little effect on the reduction of RbCl . Therefore, all subsequent experiments were made at CaSi_2 : $\text{RbCl} = 3$. The changes in pressure during briquetting also did not change the reaction parameters. The separate placement of a layer of RbCl under a layer of calcium silicon resulted in a noticeable decrease in the rate of reduction. It was thus concluded that the reduction of RbCl occurred mostly by the reaction of calcium silicon with liquid RbCl . The optimal conditions were achieved during the two-stage reduction: (1) reduction at 750C in Ar atmosphere under an Ar pressure of 5 mm Hg, and (2) creation of a vacuum in the system and further reduction at 900C. About 70% Rb was reduced during the two-stage process. The RbCl which evaporated during reduction concentrated separately from the metal and was recirculated. The two-stage reduction occurred practically without permanent losses of RbCl . The second set of experiments (electrochemical) suggested that the reaction on the boundary of calcium silicon and RbCl occurred in two stages: $\text{CaSi}_2 \rightarrow \text{Ca}^{2+} + 2\text{Si} + 2\text{e}^-$ and $2\text{Rb}^+ + 2\text{e}^- \rightarrow 2\text{Rb}$. The reaction (1) can therefore be considered as the result of the work of a shortcircuited cell. The anode oxidation of the negative Si ions and the cathode reduction of Rb occurred in this cell. The calculation of apparent energy of activation made from polarization curves yielded a value ($E = 19,200$ cal/mole) nearly similar to that of the apparent energy of activation obtained from the kinetic data of the first set of experiments. Orig. art. has: 3 fig. and 2 tables.

SUB CODE: 07/ SUBM DATE: 25May65/ ORIG REF: 006

Card 2/2

ACC NR: AP6033551

SOURCE CODE: UR/0181/66/008/010/2919/2924

AUTHOR: Bendiashvili, N. S.; Buishvili, L. L.; Zviadadze, M. D.

ORG: Institute of Cybernetics, AN GruzSSR, Tbilisi (Institut kibernetiki AN GruzSSR)

TITLE: Contribution to the theory of dynamic polarization and relaxation of nuclei in the case of strong saturation

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2919-2924

TOPIC TAGS: nuclear polarization, spin lattice relaxation, nuclear spin, electron spin, electron spin, quantum statistics, paramagnetic relaxation, *electron polarization*

ABSTRACT: The relaxation and dynamic polarization of nuclei, resulting from paramagnetic impurities, are investigated on the basis of quantum statistics in the case when a strong radio-frequency field is applied to a system of electron spins. The interaction between the electron and nuclear spin subsystems is regarded as a small perturbation. The analysis is based on the construction of the nonequilibrium density matrix by the method developed by D. N. Zubarev (DAN SSSR v. 140, p. 2, 1961). The analysis is limited to the quasistatic case, with the dispersion of the kinetic coefficients neglected. The correlators of the spin operators are calculated. It is shown that the relaxation time increases near resonance, for then exchange of energy between the electron and nuclear systems is greatly reduced. The results indicate

ACC NR: AP6033551

that with increasing amplitude of the radio-frequency field the degree of polarization increases (the temperature of the nuclear subsystem decreases), goes through a maximum, and then decreases. A relation is established between the spin-lattice relaxation time and the position of the maximum. Orig. art. has: 45 formulas.

SUB CODE: 20/ SUBM DATE: 14Feb66/ ORIG REF: 005/ OTH REF: 007

153-B. Theory of Crushing of Rocks
(Minerals). II. Separation of Particles
Into Two Fractions and Calculation
of the Average Composition of These
Fractions. (In Russian.) E. M. Zviagin,
R. B. Rozenbaum, O. M. Tiden, and
A. Z. Iurovskii. *Izvestia Akademi
Nauk SSSR, Section of Technical Sci-
ences*, Aug. 1961, p. 1216-1229.

Method for determination of the
relative number of floated and set-
tled particles during their separation
into two fractions. Data are tabulat-
ed and charted. (B14)

BTR

8365* Theory of Grinding of Minerals. III. Separations of Particles of Coarsely Ground Products Into Two Fractions. (In Russian.) B. M. Zvingin, O. M. Tolos, and A. Z. Iurovskii. *Izvestia Akademii Nauk SSSR, Section of Technical Sciences*, Dec. 1951. p. 1825-1840.
Mathematical analysis plus graphical interpretation.

ASM

225-13. Theory of Grinding of Minerals. III. Separation of Particles of Coarsely Ground Products into Two Fractions. (In Russian.) B. M. Zolotarev, O. M. Todes, and A. Z. Iurovskii. *Izvestiya Akademii Nauk SSSR, Section of Technical Sciences*, Dec. 1951, p. 1825-1840.
Mathematical analysis plus graphical interpretation. (B13)

ZVIAGINTSEV, A.Ye., dots.

Renal dystopia in children. Khirurgiia 32 no.10:58-60 0 '56

(MIRA 12:7)

1. Iz kliniki detskoy khirurgii (zav. - prof. S. D. Ternovskiy)
II Moskovskogo meditsinskogo instituta imeni I.V. Stalina na baze
bol'nitsy imeni N. F. Filatova (glavnyy vrach M. N. Kalugina).

(KIDNEYS, dis. abnorm.
dystopia, surg. in child.)

"Traitement de la pneumonie lobaire par la sulfidine." Pantchenkov, T., Kleiman, S.,
Zviaguine, K., et Amvrossov, K., (p. 411)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume 18, no. 5.

ZVIBEL, R.; MOASA, D.

ZVIBEL, R.; MOASA, D. Semi-industrial attempts at manufacturing cellular concrete blocks in autoclaves. p. 299

Vol. 7, No. 5, May 1956
INDUSTRIA CONSTRUCTIILOR SI A MATERIALELOR DE CONSTRUCTII.
TECHNOLOGY
Bucuresti, Rumania

So: East European Accession, Vol. 6, No. 2, Feb. 1957

APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVILKONIS, Arvids; SACINIKS, Rudolis; MAPOZANIS, Jānis; SKLENNIKS, G.,
red.; PILADZE, Z., tekhn.red.

[Improvement cuttings in forests of the Latvian S.S.R.]
Kopsanas cirtes Latvijas PSR mežos. Rīga, Latvijas PSR
Zinatnu akad.izdevniecība, 1961. 152 p.

(MIRA 15:2)

(Latvia--Forest management)

ZVIEDRIS, A., (Riga); SATSENIKS, R. [Saceniaks, R.] (Riga)

Effect of climatic factors on the width of the annual rings of
the spruce. In Russian. Vestis Latv ak no.3:177-184 '60. (KEAI 10:7)

1. Akademiya nauk Latvyskoy SSR, In-t lesokhyaystvennykh problem
i khimii drevesiny.
(Spruce)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4
ZVIEDRIS, Arvi Indrikovich; ZUMBERGA, M., red.; PAEULIS, J., tekhn. red.

[Spruce and spruce forests in the Latvian S.S.R.] Egle un egļu meža
Latvijas PSR. Rīga, Latvijas PSR Zinatņu akadēmijas izdevniecība,
1960. 238 p. [In Latvian] (MIRA 14:12)
(Latvia---Spruce)

ZVIEDRIS, Arvid Indrikovich; MATUZANIS, Yanis Kazimirovich; BERZINA, I.,
red.; PILADZE, Z., tekhn. red.

[Forest types in the Latvian S.S.R.] Latvijas PSR meza tipi. Riga,
Latvijas PSR zinatnu Akademijas izdevnieciba, 1960. 90 p.
[In Latvian] (MIRA 14:11)
(Latvia--Forests and forestry)

ZVIEDRIS, A.

Rationalization of forestry on Latvian collective farms. p. 83.

BIOLOGICHESKAIA NAUKA; SELSKOMU I LESNCMU KHOZIAISTVU. (Latvijas PSR
Zinatnu akademijs. Biologijas zinatnu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (EEAI), IC, Vol. 8, No. 8,
August 1959.
Uncla.

ZVIEDRIS, A.

Increasing the assortment of materials produced from aspen plantings. p. 111.

BIOLOGICHESKAJA NAUKA; SELSKOMU I LESNOMU KHOZJAISTVU. (Latvijas PSR
Zinatnu akademijs. Biologijas zinatnu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (MEAI), IC, Vol. 8, No. 8,
August 1959.
Uncla.

ZVIEDRIS, A.

Voluntary selection cuttings. p. 119.

BIOLOGICHESKAJA NAUKA; SELSKOMU I LESNOMU KHOZJAISTVU. (Latvijas PSR
Zinatnu akadēmija. Bioloģijas zinātnu nodaļa) Rīga, Latvija, No. 3, 1957.

Monthly list of East European Accessions (FEAI), IC, Vol. 8, No. 8,
August 1959.
Uncla.

ZVIEDRIS, A.; Broks, J.

Growth of the spruce trunk and the size of the top. p. 101.

LATVILAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 3, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2,
Feb. 1960 Uncl.

ZVIEDRIS, A.

GENERAL

PERIODICALS: VESTIS, No. 5, 1958

ZVIEDRIS, A. Effect of climatic factors on the diametric growth of pine trucks.
p. 37

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

Topography of the spread of suppurative complications of gunshot
osteomyelitis and methods of treatment. Vest. Khir. 84 no. 4:79-
84 Ap '60. (WOUNDS, GUNSHOT) (OSTEOMYELITIS) (MIRA 14:1)

ZVIGAL' SKAYA, M.S., kandidat meditsinskikh nauk, (glavnyy khirurg goroda
Frunze)

Late results of surgery of cicatricial stenosis of the esophagus.
Khirurgiia no.10:73' 0 '55. (MLRA 9:2)

(ESOPHAGUS stenosis,
cicatricial, surgl, remote results)

Local use of penicillin in treatment of osteomyelitis. Sov.med.
22 no.5:108-109 My '58 (MIRA 11:7)
(OSTEOMYELITIS, ther.
penicillin, local admin. (Rus))
(PENICILLIN, ther. use
osteomyelitis, local admin. (Rus))

Stomach - Wounds and injuries

Management of a case of gun-shot wound of the stomach. Sov. med. 16, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November ~~1952~~ 1952. Unclassified.

TYULENEV, Nikolay Konstantinovich; ZVIGINTSEV, P.S., inzh., retsenzent;
YERGINA, M.N., red.; BOGOSLAVETS, N.P., tekhn. red.

[Work organization in a brigade of communist labor] Organizatsia
raboty v brigade kommunisticheskogo truda. Moskv, Mashgiz,
1961. 19 p. (Biblioteka rabochego-mashinostroitel'ia. Seria:
Peredovaia tekhnika - osnova kommunisticheskogo truda, no.12) (MIRA 16:1)

1. Rukovoditel' brigady tokarey v mekhanicheskoi tsekhe
Uralmashzavoda (for Tyulenev).
(Machinery industry—Production standards)

~~SECRET~~ ~~TOP SECRET~~ ~~CONFIDENTIAL~~ ~~SECRET~~ ~~TOP SECRET~~ ~~CONFIDENTIAL~~ ~~SECRET~~ ~~TOP SECRET~~ ~~CONFIDENTIAL~~
Dobisovna; SKORUBSKAYA, I.N., redaktor; RAKOV, S.I.,
tekhnicheskiy redaktor

[Let us increase the production of livestock] Povysheniye produktiv-
nost' skota. [Moskva] Izd-vo Vsesoyuznogo Profizdat, 1957. 77 p.

(MLR 10:10)

1. Glavnyy zootekhnik Kemerovskoy mashinno-traktornoy stantsii,
Khar'kovskoy oblasti (for Zvigel'skaya)
(Stock and stockbreeding)

GONCHAROVA, L.A.; BOCHAROVA, N.M.; KOBRINA, Yu.P.; ZVIGUR, Ye.S.

Effect of yeastlike fungi on the yield and quality of baker's yeast. Mikrobiologiya 34 no.1:157-162 Ja-F '65.

(MIRA 18:7)

1. Leningradskiy mezhotraslevoy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti.

**NOVOTEL'NOV, N.V., dotsent, kand.biologicheskikh nauk; YESHOV, I.S.,
kand.tekhn.nauk; KARASEVA, A.I., inzh.; ZVIGUR, Ye.S., inzh.**

Biological stimulators of barley corn and ways of using
them in the food industry. Trudy LPIKHP 13:7-16 '57.
(MIRA 13:6)

1. Kafedra mikrobiologii i biokhimii Leningradskogo
tekhnologicheskogo inatituta kholodil'noy promyshlennosti.
(Barley)

ZVILICHOVSKAYA, E.E.,
N. S. SMIRNOV, Gosudarst. Nauch.-Issledovatel. Inst. Uro-
Gravidanoterapii Narkomsdrava 1937, No. 1, 52-7.

SURNAME, Given Name

Country: Rumania

(2)

Academic Degrees:

Affiliation: -not given-

Source: Bucharest, Igiena, Vol IX, No 4, Sep-Oct 1961, pp 319-322.

Data: "Distribution of Benzene in a Case of Acute Accidental Poisoning
by Inhalation."

Authors:

IOANID, N., -Prof.-

BORS, Gh., -Conf.-

ZVINCA, Elena, -Pharmacist.-

IOANID, H.; BORS, G.; POPA, I.; ZVINCA, E.; PUCHEA, I.

Study of the injurious substances of the air in steel and iron foundries. Rev. igiena microb. epidem., Bucur. No.2:64-68 Apr-June 54.

(AIR POLLUTION

in steel & iron foundries, contaminants, determ. of concentration in air)

(INDUSTRIAL HYGIENE

air-sampling in steel & iron foundries for determ. of concentration of contaminants)

RUMANIA / Chemical Technology. Chemical Products and Their Application. Safety Engineering. Sanitary Engineering H-6

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, 5175
Author : Ioanid N., Bors Gh., Popa I., Zvinca El.,
Stanoiu I.
Inst : Not Given
Title : Toxicological Analysis of the Air in the Pro-
duction of Furfurol.
Orig Pub : Farmacia (Romin.), 1957, 5, No 1, 18-24
Abstract : The analyses have shown that concentrations of
furfurol exceed the maximum permissible. A
number of prophylactic measures are proposed.
Card : 1/1

5

Determination of sulfur dioxide in air by polarography. E. Zylina-Selegan, L. Carinci, and N. Rasnyanu. *Rev. chim. (Bucharest)* 9, 39-44 (1958). A comparative study was carried out to det. SO_2 in air by polarography, colorimetry, iodometry, conductometry, and nephelometry. The SO_2 was absorbed in water or in a 5% soln. of alc., sugar, or glycerol, and polarographed in the presence of air, from a soln. contg. 3 ml. 0.1N HCl 5 ml., into which 2 drops of 0.1% methyl red was added. The sensitivity limits for the 5 methods were: 0.8 γ for colorimetry, 2 γ for nephelometry, 10 γ for conductometry and polarography, and 14 γ SO_2 for iodometry. Only the nephelometric and polarographic procedures are specific for SO_2 . 10 references. R. M.

ROMANIA

ZVINCA-SELEGEAN, Elena, Chemist.

Bucharest, Igiena, No 4, Jul-Aug 63, pp 353-362

"Determination of Cancerigenic Hydrocarbons in the Atmosphere."

ZURICH, SELEGHAN, ELENA

- 27 (10)
1. "Occupational Cancer of the Intestines Caused by Tar." Buchanan and his Derivatives; Prof. F. MANU; Buchanan, Eleza, Vol. XI, No. 1, Jan-Feb 1962 pp. 1-11.
 2. "The Ionization of the Atmosphere in the Vicinity of an Electrical Thermopile Station." N. ZAVRZHEVICH, EL. KRIVOKHARIN, Dr. V. NAROVA, Dr. S. SAVVANOVA, EL. KRIVOKHARIN, M. MIDOV and Dr. DIMONASCOV; pp. 1-11.
 3. "Notes on the Supply of Drinking Water in Rural Areas by Means of Small Centres: Supply Units (Microcentral Units)." Dr. F. STOLERN and Dr. Enelia ORAVANOVIC; pp. 19-25.
 4. "Experimental Investigations on the Toxicity of Certain Chemical Substances Used in the Manufacture of Organic Glass (Plexiglas)." Dr. SILVIA EASON, Dr. G. HOFFER, EL. KRIVOKHARIN and ROBERT GELBERG; pp. 1-11.
 5. "Investigations Concerning the Influence of Ionizing Radiation on the Nutritive Value of Proteins and Lipids in Canned Pork." Dr. A. SPAN, Dr. H. KADYEVANU, Dr. Instelma GRIFFENBERG-CAITINSCHILSKO performed at the EPH Institute of Hygiene and Public Health (Institution of IGRICH at the Public Health); Bucharest; pp. 11-39.
 6. "New Aspects Regarding the Use of Chloridium vejchii Bacterium as Sanitary Indicator for Food Products." Dr. Corneelia-IVIRICA; pp. 11-18.
 7. "The Use of Plant Yeasts in Food Toxicology." Stana STANCA-STANCIU, Dr. A. SPAN and SILVIA GHEORGHE, THE Institute of Hygiene and Public Health (Institution of IGRICH at the Sanitate Publica PHH); Bucharest; pp. 19-53.
 8. "A Few Observations on Tube Colimetry." Dr. H. ZARVA and Dr. Radu-ADRI ICHER; pp. 55-60.
 9. "Radioactive Pollution of Natural Water Reservoirs." Dr. On. ZAVRZHEVICH; pp. 61-65.

ZVINCA-SELEGEAN, Elena

Study on the pollution and self-purification of surface
waters by aid of biological test on plants. Meteorologia
hidrol gosp 5 no.4:272-277 '60.

ZVINCA-SELEGAN, ET.

1. "Occupational Cancer of the Intestum Caused by
Zinc Blotches and Its Derivatives," Prof. F. MANN,
pp. 1-11. (26)
2. "Pollution of the Atmosphere in the Vicinity of an
Industrial Enterprise," Dr. V. BARELA, Dr. G. RANIERI,
Dr. M. BIANCHI and Dr. G. DIODAZI; pp. 1-11. (27)
3. "Notes on the Supply of Drinking Water in Rural Areas
by Means of Small General Supply Units (Experimental
Units)," Dr. F. SODINI and Dr. EMILIO CRIVAROLI; pp.
19-25.
4. "Experimental Investigations on the Toxicity of Certain
Chemical Substances Used in the Manufacture of Organic
Glass (Plexiglas)," Dr. SILVIA SANDR, Dr. G. RANIERI,
Mrs. ROSA and Rodolfo ZELER; work performed at the
IIR Institute of Hygiene and Public Health (Instituto
di Chimica); pp. 21-30.
5. "Investigations Concerning Influences of Ionizing
Radiations on the Nutritive Value of Proteins and
Lipids in Canned Pork," Dr. A. SODINI, Dr. H. HADJIKYRI,
Dr. IRENE CRIVAROLI, ALBERTO SODINI, Dr. H. HADJIKYRI,
IIR Institute of Hygiene and Public Health (Instituto
di Chimica); pp. 31-39.
6. "New Aspects Upholding the Use of Chlorotolium violet
Indicator as Sanitary Indicator for Food Products;
Dr. DOMENICO IZZI; pp. 41-46.
7. "The Use of Plant Tests in Food Toxicology," Elena
GIUGLI-SILVERA, Dr. A. SODINI and Silvia CRIVAROLI,
IIR Institute of Hygiene and Public Health (Instituto
di Chimica); pp. 47-53.
8. "A Few Observations on the Coexistence of Dr. H. CARMA
and Dr. HADJIKYRI; pp. 55-60.
9. "Radioactive Pollution of Natural Water Reservoirs,"
Dr. CARMA; pp. 61-65.

ZVINCA-SELEGEAN, Elena

Study on the pollution and self-purification of surface
waters by aid of biological test on plants. Meteorologia
hidrol gosp 5 no.4:272-277 '60.

RUMANIA / Chemical Technology. Chemical Products and H-6
Their Application. Safety and Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1764.

Author : Zvinca — Selegean E., Cariadi, L.

Inst : Not given.

Title : The Polarographic Determination of Sulfur Dioxide in Air.

Orig Pub: Rev. chim., 1958, 9, No 1, 39-44.

Abstract: Experiments concerning the development of a method for the determination of SO_2 (I) in atmospheric air are reported in detail. Polarograms are presented for various concentrations of I (0.1 N HCl solution as the supporting electrolyte), as well as polarograms which were obtained in the presence of various amounts of Cl, NH_3 , and H_2S . The advantage of a polarographic method for the

Card 1/2

RUMANIA / Chemical Technology. Chemical Products and H-6
Their Application. Safety and Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1764.

Abstract: determination of I over nephelometric, colorimetric, iodometric and other methods is emphasized. Graphs and tables are furnished on a comparison of the sensitivity of the mentioned methods. Ten references are given. -- T. Solov'yeva.

Card 2/2

YELISTRATOV, A.M.; ZVINCHUK, R.A.

Appearance and liquidation of heterogeneous regions in single crystals
of (K, Na) Cl solid solutions. Fiz. tver. tela 2 no.10:2370-2383
'60. (MIRA 13:12)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Solutions, Solid) (Potassium chloride crystals)
(Salt crystals)

S/181/60/002/010/006/051
B019/B070

AUTHORS: Yelistratov, A. M. and Zvinchuk, R. A.

TITLE: Formation and Dissolution of Heterogeneous Regions in Single Crystals of Solid Solutions (K,Na) Cl

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2370-2383

TEXT: The decomposition and rehomogenization of solid solutions of (K,Na)Cl whose compositions are nearly in equimolar proportion, were studied here by three methods; 1) By Laue diffraction patterns. 2) By microscopic studies with linearly polarized light in which the time variation of brightness was investigated. 3) By photometric investigations of the opacifying of crystals of solid solutions. In the individual sections of the paper, the authors discuss the changes during decomposition and rehomogenization of the solid solutions in: Laue diagram, state of elastic stresses of the single crystal of equimolar solutions at the beginning of the decomposition, the opacifying of the crystal of equimolar solutions on decomposition, and the relations between the effects observed and their interpretation. Results relating to the time variation and the

Card 1/2

Formation and Dissolution of Heterogeneous
Regions in Single Crystals of Solid Solutions
(K,Na) Cl

S/181/60/002/010/006/051
B019/B070

dependence on temperature of the effects observed lead to the conclusion that the decomposition of the solutions studied here takes place in two stages. In the first stage there appears a spontaneous formation of local heterogeneous regions which are microscopically small. In the second stage, there occurs a recrystallization of the equilibrium phase. The microscopically small regions formed in the first stage grow at the cost of others having the same composition. The stresses between these heterogeneous regions formed in the first stage and their surroundings decrease in the second stage by the growth of the heterogeneous region. The continuity and disorientation are destroyed in the heterogeneous region. Heating of the disintegrated solution above the solubility temperature T_s results in a dissolution of the heterogeneous regions, that is, a rehomogenization takes place. There are 11 figures, 1 table, and 26 references: 5 Soviet, 3 Dutch, 9 German, 7 US, 1 British, and 1 Indian. ✓

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors of the Academy of Sciences USSR, Leningrad)

SUBMITTED: March 17, 1960

Card 2/2

AUTHOR: Zvinchuk, R.A.

SOV/70-3-6-16/25

TITLE: An X-ray Crystallographic Study of the Polymorphism of
Nb₂O₅ (Rentgenograficheskoye issledovaniye polimorfizma
Nb₂O₅)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 6, pp 744 - 747/(USSR) + 1 plate

ABSTRACT: The three forms of Nb₂O₅ were found to have the unit
cells:

α -Nb₂O₅ β -Nb₂O₅ γ -Nb₂O₅

Indexed powder data for the α and β forms are given.
Diffraction symmetry is given in Table 1, p 745.

A crystalline preparation of α -Nb₂O₅ was made by

heating on a Pt wire using the reaction $2\text{NbCl}_5 +$
 $+ 5\text{H}_2\text{O} = \text{Nb}_2\text{O}_5 + 10\text{HCl}$. The temperature was

1 100 - 1 300 °C. After 2 hours at 1 450 °C, the specimen
became transparent and crystals big enough for X-ray work
were obtained. A de Jong-Bouman camera was used to find
the mutual orientation of the crystallites in the star or
octagonal growths. Each growth contained 8 crystals in

Card1/2

SOV/70-3-6-16/25

An X-ray Crystallographic Study of the Polymorphism of Nb_2O_5

4 orientations with the prism faces $(10\bar{1})$ (octagon) or $(10\bar{2})$ (star). The prism axis was b . Heating crystals of the α -form at $600^\circ C$ (2 500 hours), $900^\circ C$ (100 hours) and $1\ 100^\circ C$ (40 hours) did not effect the transformation to the β -phase. Acknowledgments to S.M. Ariya, A.I. Zaslavskiy and A.M. Yelistratov. There are 3 figures, 3 tables and 7 references, 2 of which are Soviet, 2 German and 3 English.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute of Semi-conductors of the Ac.Sc.USSR)

SUBMITTED: April 18, 1958

Card 2/2

ZVINCHUK, R.A.; YELISTRATOV, A.M.

Shape effect in X-ray scattering by single crystals of supersaturated
solid solutions of (K, Na)Cl in process of decomposition.
Kristallografiia 8 no.5:715-723 S-O '63. (MIRA 16:10)

1. Institut poluprovodnikov AN SSSR.

ZVINCHUK, R.A.

X-ray investigation of polymorphism in Nb_2O_5 . Kristallografiia
3 no.6:744-747 '58. (MIRA 12:2)

1. Institut poluprovodnikov AN SSSR.
(Niobium oxides) (X-ray crystallography)

2

B. T. R.
Vol. 3 No. 3
March 1954
Ceramics and Concrete

2919* Reaction of Ta_2O_5 With H_2O , and the Structure of $TaBO_3$. (Russian.) A. I. Zaslavskii and R. A. Zvinel'uk, *Doklady Akademii Nauk SSSR*, v. 90, no. 5, June 11, 1953, p. 781-783. Monocrystals of Ta_2O_5 were extracted from H_2O fusion. Hexagonal tablets with strong birefringence were obtained. Table, diagram, 5 rel.

Leningrad State Univ.

ZASLAVSKIY, A.I.; ZVINCHUK, R.A.; TUTOV, A.G.

X-ray study of the polymorphism of Ta_2O_5 . Dokl. AN SSSR 104 no.3:
409-411 S 155. (MLRA 9:2)

Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.
Predstavleno akademikom N.V. Belevym.
(Tantalum oxides) (Crystallography)

ZVINOGRODSKIY, N.V. (Moskva); KUSHUL', M.Ya. (Moskva).

**Investigating the vibrations of high-speed spindles. Izv. AN SSSR.
Otd. tekhn. nauk no. 10:48-63 0 '56. (MIRA 10:1)**

- 1. Institut mashinovedeniya Akademii nauk SSSR,
(Spinning machinery--Vibration)**

BANAKH, L.Ya. (Moskva); DIMENTBERG, F.M. (Moskva); ZVINOGRODSKIY, N.V.
(Moskva)

Origination of a parametric resonance in a horizontal shaft with
a weight and supported by a bearing with a radial gap. Izv.AN
SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.6:159-162 N-D '61.

(MIRA 14:11)

(Shafting)

PHASE I BOOK EXHIBITION SOV/4415

Исследования шумов 3448. Институт машиноведения
Проблемы прочности в машиноведении. Вып. 6 (Problems of
Strength in Machine Building No. 6) Киев, 1960. 87 p.
3,000 copies printed.

Resp. Ed.: P. M. Dzhambetov, Doctor of Technical Sciences;
Ed. of Publishing House: P. N. Zolotov; Tech. Ed.: I. P.
Kovaleva.

PURPOSE: This collection of articles is intended for engineers
dealing with the problem of machine vibrations.

CONTENTS: The collection contains papers which were originally
presented at the Embassy symposium on "Strength in Machine Building"
held in Moscow in 1958. The papers were published in the
Bibliography of the Institute of Science of Machines,
Academy of Sciences, USSR, in 1958-59. The following prob-
lems are investigated: vibrations in machines; balancing of
flexible rotors (taking friction into account); the effect
of impulses on flexible shafts connected to the engine; vibra-
tion of a shaft with clearance; separation of frequency
and mode of free vibrations of variable cross-section bars
by means of special functions; and the calculation of self-
excited vibrations in a computer system. No personalities
are mentioned. References accompany individual articles.

Zolotov, V. I. Calculation of Self-Excited Vibrations in the
Presence of Clearance and Coupling Depending on the System of the
Automated Drive of Bridge-Type Computers 55

Dzambetov, P. M., Dzhambetov, and N. V. Zvinogradov.
Vibrations of a Heavy Shaft with (Uniformly) Distributed Mass
and Clearance in One Bearing 68

AVAILABLE: Library of Congress
Card 3/3
VK/dsm/oc
12-19-80

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710015-4
BORIAKOV, D.I.; ZVINIATSKIY, M.B. [deceased]
(Khar'kov)

Variations of pain phenomena in acute closed cerebrocrania trauma.
Vop.neirokhir. 21 no.5:45-50 S-O '57. (MIRA 10:11)
(BRAIN, wounds and injuries,
cerebrocranial, pain phenomena (Rus))

MALYSHEV, G.A.; YEZERSKIY, A.N.; ZVIRBYANSKIY, Ya.I., inzh.,
retsenzent; CHERKINSKIY, I.A., inzh., nauk, red.;
VASIL'YEVA, I.A., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Fundamentals of the design and manufacture of plastic parts
in the automobile industry] Osnovy proektirovaniya i proiz-
vodstva detalei iz plastmass v avtomobilestroenii. Moskva,
Mashgiz. 1963. 231 p. (MIRA 16:9)
(Automobile industry) (Plastics)

ZORINS, K.; DUNDORS, J.; ZVIRBULIS, H., red.; UDRE, V., tekhn. red.

[Increasing labor productivity is the path to abundance] Darba
raziguma paaugstinasana - cels uz parpilnibu. Riga, Latvijas
Valsts izdevnieciba, 1961. 71 p. (MIRA 15:3)
(Latvia--Agriculture--Labor productivity)

BAMBERGS, K., prof., red.; ZVIRBULIS, H., red.; PASTARE, D., tekhn. red.

[Manual for agricultural workers] Rokasgramata Lauksaimniecibas darbiniekiem. Prof. K.Bambergas red. Riga, Latvijas Valsts izdevnieciba, 1959. 501 p. [In Latvian] (MIRA 14:12)

1. Latvijas Lauksaimniecibas akademijs (for Bambergas). (Agriculture—Handbooks, manuals, etc.)

MIRHAYLOV, A.M.; GORBUL'SKIY, G.F.; ZVIRBULIS, I.A.

Increasing the wear resistance of steel castings. Lit.proizv. no.4:37-38
Ap '63. (MIRA 16:4)
(Steel castings) (Surface hardening)

Improving the wear resistance of steel castings

S/128/63/000/004/003/004
AOF4/A126

ed with a dense 2 - 3 mm thick metal-corundum coating that formed a tight bond with the base metal. The wear of the corundum-coated track links was by a factor of 2.8 less than that on links coated with the conventional alloy. After 50 h operation the wear of the conventional track links was 1 - 2 mm, whereas no wear could be found on the experimental ones. If more than 6% corundum is added to the coating mixture, the efficiency of the coating layer deteriorates, most probably due to disintegration of the alloy in which case the corundum particles liberated promote the wear of the metal. There are 5 figures.

36903. OSHIN'SH, A, I ZVIRBULIS, V. Vliyaniyye sil'vanola na indeks
opsoninov i na fagotsitarnyye reaktsii v infitsirovannom organizme zhivotnogo.
Izvestiya Akad. nauk Latv. SSR, 1949, No. 10, s. 95-99.--Na latysh.
yaz.-- Rezyume na rus. Yaz.--Bibliogr: 7 nazv.

SO: Letropis' Zhurnal'nykh Statey, Vol. 50. Moskva, 1949

VITKAUSKAS, J., red.; BARANAUSKAS, B., red.; SERKSNYS, J., red.;
ZVIRENAS, A., red.; PETRUSEVICIUS, V., red.; ADOMAVICIUS, B.,
red.; KILAS, M., red.; SARKA, S., tekhn. red.

[Scientific and technical information] Mokslinė - techninė
informacija. Vilnius, Valstybinė politinės ir mokslinės
literatūros leidykla, 1961. 40 p. (MIRA 16:5)

1. Lietuvos žemės ūkio mechanizacijos ir elektrifikacijos
mokslinio tyrimo institutas.
(Lithuania--Agricultural machinery)

VITKAUSKAS, J., red.; ZVIRENAS, A., red.; SERKSNYS, J., red.;
ADOMAVICIUS, B., red.; BARANAUSKAS, B., red.; PETRUSEVICIUS, V.,
red.; GLEVAVICIENE, S., red.

[Problems of the mechanization of agricultural production]
Zemės ūkio gamybos mechanizavimo klausimai. Vilnius, Lietuva
"Mintis," 1964, 118 p. [In Lithuanian] (MIRA 18:2)

1. Lietuvos žemės ūkio mechanizacijos ir elektrifikacijos
mokslinio tyrimo institutas.

ZVIRGZD, A. [Zvirgzds, A.]

"Ornamental shrubs of the central zone" K.V. Kats. Reviewed by
A.Zvirgzds. Bot. zhur. 46 no. 2:291-292 F '61. (MIRA 14:2)

1. Botanicheskiy sad AN Latvyskoy SSR.
(Plants, Ornamental) (Kats, K.V.)

ZVIRGZDS, A.

Using wild apple and pear seedlings for graft stems.

P. 20. (PADOMJU LATVIJAS KOLCHOZNIIEKS) (Riga, Latvia) Vol. 10, No. 1, Jan. 1958

SO:: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

MORKONS, Miervalds; ZVINGZDS, Andris; ROZINBERGA, R., red.

[New woody plant species introduced into the Latvian S.S.R.]
Jaunas introduceto kokaugu sugas Latvijas PSR. Riga, LPSR
Ainatnu akad. izd-ba, 1963. 93 p. [In Latvian]
(MIRA 17:7)

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Mutual displacement of metals from the vapours of their salts and the application of this process in the fight against corrosion. N. A. ZYAGINSTEY and E. S. SARKISOV (Compt. Rend. Acad. Sci. U.R.S.S., 1933, 18; 437-440).—Specimens of Armeo Fe and of Cr were placed adjacent to one another in a tube furnace and heated in dry HCl at 875-1100°. The CrCl₂ formed was decomposed on the Fe, forming lustrous Cr coatings of controllable thickness, which were resistant to aq. NaCl, moist SO₂ + air, moist H₂S + CO₂ + air, n-HNO₃, and n-AcOH. With n-H₂SO₄ there was a small evolution of H₂. With a similar technique, W given lustrous coatings on Fe, and Ni grey crumbly deposits. Deposition of Ni and Cr together gave lustrous durable coatings. H. J. E.

ASS. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

STONY STRONGSIAH S31221-11P-01V-02E 31221-01P 31221-01P-01V-02E

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

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YUGOSLAVIA

NEUDAUER, Dr. Joz; ZVOKELJ-KRIZAN, Dr. Breda and STROPNIK, Dr. Zlata;
Department of Internal Medicine, General Hospital (Interni odjel Opce
bolnice), "Dr. Joz Potrc", Ptuj; Regional Institute for National Health
(Oblastni zavod za zdravstvenu zastitu), Maribor and Department of
Microbiology, Medical College (Institut za mikrobiologiju Medicinskog
fakulteta), Ljubljana.

"Mycetoma Due to Nocardia asteroides."

Zagreb, Liječnicki Vjesnik, Vol 87, No 10, Oct 1965; pp 1093-1104.

Abstract [English summary modified]: Description of case in 74 year
old women farmers, ulnar surface of right forearm with open tumor, pain,
fever for three weeks. Surgery and antimicrobial treatment with
penicillin and sulfonamides brought healing. Mycologic diagnosis
Nocardia asteroides. Photograph of patients; of Petri dish, 3 photo-
micrographs; 8 Yugoslav, and 44 Western references. Manuscript received
11 May 65.

CZECHOSLOVAKIA

FABRY, P., HEJDA, S., CERNY, K., OSANKOVA, K., PECHAR, J.,
ZVOLANKOVAK, K; Nutrition Research Institute, Pediatric Faculty,
Charles University (Ustav pro Vyzkum Vyzivy Lidu, Fakulta Detskeho
Lekarstvi KU), Prague.

"The Influence of Food Intake Frequency on Body Proportions and
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Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 83-84

Abstract: In grown-ups infrequent heavy meals increase fat
deposition. 226 children, aged 6 - 16 were given 2874-2970
calories per day in 3, 5 or 7 meals. In the age group 11 - 16
3 meals a day led to an increase of weight; in the younger
group no difference was found. The epithelium was thicker in
the children with increased weight. 4 Western, 4 Czech
references. Submitted at "16 Days of Physiology" at Kosice,
30 Sep 65.

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Causes of accidents in exchange transfusions with the use of citrated blood in newborn infants. Bratisl. lek. listy 44 no.4: 246-251 31-Ag '64.

1. Katedra pediatrie II Lek. fak. Univerzity Komenskeho v Bratislave, (veduci prof. MUDr. J. Michalickova) a Fakultna transfuzna stanica v Bratislave (veduci doc. MUDr. M. Hrubisko, C.Sc.).

STIESA, K.; FANTOVA, B.; ZVOISEKA, E.

Effect of emotions on intensity of pain in labor. *Cesk. gyn.* 18 no.3:
217-222 June 1953. (OIML 25:1)

1. Of the First Obstetric Clinic (Head--Prof. K. Klaus, M.D.) of
Charles University, Prague.

S/194/62/000/009/018/100
D201/D308

AUTHORS: Vilim, Jan and Zvolánek, František

TITLE: A time relay

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 9, 1962, abstract 9-2-35 b (Czech. pat., cl. 21c,
44, no. 97831, December 15, 1960)

TEXT: An a.c. relay circuit, providing for control of the drop-out time is patented. The circuit is characterized by a condenser connected in series or in parallel to the winding of the energized relay, forming a resonant circuit, which in its turn is connected in series with a variable resistor. The resonant circuit is shunted by a thermistor in series with a second variable resistor. The resistors are used for controlling the drop-out time of the relay. 2 figures. [Abstracter's note: Complete translation.]

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SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

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II. Digestion of fats with different melting points. Cesk. gastroent.
vyz. 15 no.2:112-116 Mr '61.

1. Ustav pro vyzkum vyzivy lidu v Praze, reditel doc. MUDr. Josef
Masek.

(FATS chem) (BILE ACIDS AND SALTS chem)