

8(1), 32(3)

SOV/112-59-3-5110

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 116 (USSR)

AUTHOR: Skrypnik, V. M.

TITLE: Use of Alkaline Storage Batteries on Diesel-Electric Locomotives
(Primeneniye shchelochnykh akkumulyatorov na teplovozhakh)

PERIODICAL: Elektr. i teplovozn. tyaga, 1958, Nr 1, p 25

ABSTRACT: At the Privolzhskaya railroad, operating tests on a diesel-electric locomotive were conducted of nickel-iron starter storage battery 48-SZhN-450 which has a capacity of 450 amp-hr in the five-hour range. The rated battery voltage is 64 v (48 cells); charging current is 115 amp for seven hours. Potassium hydroxide is used as an electrolyte, its specific gravity being 1.2. The tests have shown that the main generator receives a current sufficient for starting the diesel if the fully-charged battery is discharged down to 36% of its rated capacity. As in the case of a lead battery, the diesel starting takes 8-10 sec. Mechanical strength and reliability of the alkaline battery are good. The

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SOV/112-59-3-5110

Use of Alkaline Storage Batteries on Diesel-Electric Locomotives

32 TN-450 lead-acid batteries on the TE1 and D^a locomotives should be replaced with 48-SZ^hN-450 nickel-iron batteries as soon as the former become worn out. Nickel-iron batteries should also be provided in new diesel-electric locomotives.

S.M.D.

Card 2/2

SKRYPNIK, V. V.

SKRYPNIK, V. V.: "Basic procedures in the agricultural engineering of grape hybrids--direct progenitors." Min Higher Education Ukrainian SSR. Odessa Agricultural Inst. Odessa, 1956.
(Dissertation for the Degree of Candidate in Agricultural Sciences.)

Knizhnaya letopis', No. 30, 1956. Moscow

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53821

Author : Skrypnik, V.V.

Inst :

Title : Care of the Hybrid Vineyard.

Orig Pub : Sadonodstvo, vinogradarstvo i vinodeliye, Moldavii, 1957,
No 4, 31-35

Abstract : In order to increase the yield of the hybrids - direct
producers - it is recommended that one select fertile
soils rich in moisture, prop the vines, periodically
apply mineral and organic fertilizers, increase the num-
ber of eyes per plant, carry out supplementary intravari-
etal pollination, pinch off the shoots, and protect the
plants from mildew in separate years by spraying with 10%
Bordeau solution. The varieties which form galls more
readily than other varieties should be protected from phy-
lloxera by spraying with a 2% suspension of hexachlorane.

-- P.Kh. Kiskin

Card 1/1

- 127 -

SKRYPIK, YE. I.

SKRYPIK, YE. I. (Director, Burmin Veterinary Bacteriological Laboratory).
Paracolibacillar abortions in sheep and the illness of lambs.

So: Veterinariya; 23; 4; April 1946; Incl.

TABOON

USSR / Human and Animal Morphology (Normal and Pathological).
Circulatory System. Blood Vessels.

8

Abs Jour : Ref Zhur - Biologiya, No 9, 1958, No. 40839

Author : Skrypnik, Ye. M.
Inst : Vinnitsa Medical Institute
Title : The Veins of the Nasal Mucosa in Men and in Some
Vertebrate Animals

Orig Pub : Sb. nauchn. tr. Vinnitsk. med. in-ta, 1957, 8, 29-40

Abstract : The veins of the nasal mucosa (VNM) of amphibians (frog),
reptiles, birds (chicken, duck, goose, owl, stork, wood-
pecker), of insectivores animals (hedgehog, mole),
rodents (rabbit, hare, gopher, rats), hoofed animals
(horse), predatory animals (cat, lion, dog) and man
(fetuses, children and adults up to the age of 70 years)
were investigated. It was demonstrated that the VNM
reflect the degree of development of the respiratory

Card 1/2

SKLYAR, V.A.; AVRAMENKO, K.P.; PAVLOV, D.F.; BOBKOV, N.V.; BERESTOVAYA, R.V.;
SKRYPNIK, Ye.P.; SEMONENKO, Ye.T.; SERGEYEVA, V.P.; KOLYAKO, D.A.,
red.; SOLDATOVA, N.P., otvetstv.za vypusk; GRISHNYAYEV, B.G.,
tekh.red.

[Economy of Krasnodar Territory; a statistical manual] Narodnoe
khoziaistvo Krasnodarskogo kraia; statisticheskii sbornik.
Krasnodar, Gosstatizdat, 1958. 233 p. (MIRA 12:2)

1. Krasnodarskiy kray. Statisticheskoye upravleniye. 2. Nachal'nik
Krasnodarskogo krayevogo statisticheskogo upravleniya (for Kolyako).
(Krasnodar Territory--Statistics)

THURMAN, A. T.

Research and Development - Applied and Industrial Supplies

Automatic analysis for the preparation of low % products containing a 50/50 mix of ways
of the solvent and the base. Misc. Ind. COR no. 4, March-April 1951.

Monthly List of Russian Accessions, Library of Congress, August, 1950. UNCLASSIFIED.

KOLESNICHENKO, N.A.; SKRYPNIKOV, D.A.

Stand for cleaning metal inserts from pipes for multicavity panels.
Rats. i izobr. predl. v stroi. no.126:7-8 '55. (MLRA 9:7)
(Concrete slabs)

YUKHNOVICH, A.N., veter. vrach (Yel'ninskiy rayon, Smolenskoj oblasti);
RUDOMETKIN, Ya.S., veter. vrach; EVENTOV, M.Z., veter. vrach;
SOBOLEV, A.S., dotsent (Estonskaya SSR); DOL'NIKOV, Yu.Ya., kand.
veter. nauk; PALIMPSESTOV, M.A., prof.; SIMONENKO, N.M., dotsent;
GONCHAROV, A.P., assistent; BEZRUKOV, A.A.; FROLENKOV, N.A., veter.
vrach (Serov, Sverdlovskoj oblasti); KOSHCHHEYEV, P.M.; VOROB'YEV,
M.M., kand. veter. nauk; YANCHENKO, P.Kh., veter. vrach;
AMELIN, I.P.; BYCHKOV, A.I., kand. veter. nauk; SHVYREV, G.I.,
veter. vrach (Stavropol'skiy kray); DANILIN, N.F.; TRUSHIN, A.Z.,
veter. vrach; SKRYPNIKOVA, T.K., veter. fel'dsher; MIKHEYEV, A.D.;
KARMANOVA, Ye.M., kand. biol. nauk; REMIZOV, Ye.S., mladshiy
nauchnyy sotrudnik; ANTIPIN, D.N., referent

From helminthological practice. Veterinaria 38 no.7:55-58
Jl '61. (MIRA 16:8)

1. Reshetovskiy veterinarnyy uchastok, Novosibirskoj oblasti
(for Rudometkin). 2. Scvkhoz "Buda-Koshelevskiy" Gomel'skoj
oblasti (for Eventov). 3. Sib. rskiy nauchno-issledovatel'skiy
veterinarnyy institut (for Dol'nikov). 4. Khar'kovskiy veteri-
narnyy institut (for Palimpsestov, Simonenko, Goncharov).
5. Blagoveshchenskiy sel'skokhozyaystvennyy institut (for
Bezrukov). 6. Novc-Nikolayevskiy veterinarnyy uchastok Krasno-
darskogo kraya (for Lochkarev). 7. Karpilovskiy veterinarnyy
uchastok Chernigovskoj oblasti (for Ponomarenko). 8. Kamalinskiy
veterinarnyy uchastok Krasnoyarskogo kraya (for Koshcheyev).

(Continued on next card)

YUKHNOVICH, A.N.—(continued) Card 2.

9. Novgorod-Severskaya mezhrayonnaya veterinarnaya laboratoriya, Poltavskoy oblasti (for Vorob'yev).
 10. Braginskaya rayonnaya veterinarnaya lechebnitsa, Gomel'skoy oblasti (for Yanchenko).
 11. Nachal'nik veterinarnogo otdela Chelyabinskogo oblastnogo sel'skokhozyaystvennogo upravleniya (for Amelin).
 12. Chelyabinskaya oblastnaya veterinarnaya laboratoriya (for Bychkov).
 13. Kaliningradskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Danilin).
 14. Sovkhoz "Rodina" Kikvidzenskogo rayona, Stalingradskoy oblasti (for Trushin, Skrypnikova).
 15. Zaveduyushchiy Kirovo-Chepetskoy myaso-molochnoy i pishchevoy kontrol'noy stantsiyey, Kirovskoy oblasti (for Mikheyev).
 16. Gel'mintologicheskaya laboratoriya AN SSSR (for Karmanova).
 17. Zapadno-Kazakhstanskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Remizov).
- (Veterinary helminthology)

AVAZBAKITEVA, M.F.; KIRILLOVA, R.O.; SKRYNNIKOVA, Z.A.; SHYANOV, Yu.I.

Effect of muscular activity under different climatic conditions
on changes in some physiological indices of the human organism.

Uch. zap. Kazakh. un. 41:161-170'61. (MIRA 16:6)

(KAZAKHSTAN—MAN—INFLUENCE OF CLIMATE)

SKRYPOV, V. P.

Journal of Physical Chemistry

Vol. XXXI, No. 1, 1957

3

D

THE PARTITION FUNCTION OF A SYSTEM OF VARYING NUMBERS OF PARTICLES IN A UNIFORM EXTERNAL FIELD

V. P. Skrypov (Sverdlovsk)

Summary

The report is concerned with the partition function of systems containing variable numbers of different kinds of particles in a uniform external field. The proposed distribution is a modification of the Gibbs distribution for a large canonic ensemble. The distribution introduced is associated with the thermodynamic potential $\Psi = W(T, \mu, X)$, the "constant potential", where X is the generalized external force, for example, the pressure.

The new partition function may be applied in calculating the quadratic fluctuations of some thermodynamic parameters, particularly, the energy of the system.

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Handwritten signatures and initials

DANILOV, V.I.; ZUBKO, O.M.; ~~SKRISHCHEVS'KIY~~, A.F.

X-ray study of liquid O-dichlorobenzene. Dop. AN URSR no. 5:39-43 '49.

(MLRA 9:9)

1. Chlen-korrespondent AN URSR (for Danilov). 2. Kiiiv, Laboratoriya metalofiziki AN URSR.

(Benzene)

SKRYSHEVSKIY, A. F.

PA 187T92

USSR/Physics - X-ray Analysis

Mar/Apr 51

"Determining the Structure of Molecules by Roentgenograms of Liquids," V. I. Danilov, A. F. Skryshvskiy, Lab of Metallophys, Acad Sci Ukrainian SSR

"Iz Ak Nauk SSSR, Ser Fiz" Vol XV, No 2, pp 187-194

It is experimentally shown on ortho- and paradi-chlorobenzene that X-ray spectra of fluid with complex mols reveal structure of mols. Submitted at 3d All-Union Conference on Use of X-rays in Study of Materials held 19 - 24 Jun 50 in Leningrad.

LC

187T92

SKRYSHEVSKIY, A. F.

USSR/Physics - Solid State Physics

Nov 53

"Conference on the Liquid State of Matter, Held 28-30 May 1953 at Kiev by the Academy of Sciences, Ukrainian SSR, and Kiev State University in T. G. Shevchenko," S. D. Ravikovich, G. I. Foshchina and A. F. Skryshevskiy

Usp Fiz Nauk, Vol 51, No 3, pp 393-405

Summarize reports by the following: V. I. Danilov, on scattering of x-rays in liquids; A. F. Skryshevskiy, on x-ray study of solns of KOH, NaOH, LiOH, LiCl, and H₂SO₄; Ye. A. Foray-Koshits, on integral analysis of intensity curves; E. V. Deragin, Ye. G. Shvidkovskiy, C. Ya. Jaroylov et al. on x-ray studies of liquid structure; A. Z. Golik, on characteristics of molecular structure of liquids; I. V. Radchenko, on modeling of liquids; F. K. Shestakovich, on new liquid models and influence of central and dipole forces on close ordering; A. Z. Golik and his associates S. D. Ravikovich, A. V. Orishchenko, V. I. Solomko, and N. A. Ryndich, on viscosity and density of matter in the liquid state; V. M. Chulanovskiy and D. S. Karenetskaya, on the influence of molecules' size and the intermolecular intensity on viscosity coeff; A. P. Frynza, on thermo-diffusion in binary systems; S. S. Krazovskiy, presence of grouping of identical atoms; A. R. Fegel', on relation between electrical properties and structure of liquids; M. F. Vuks, on light-dispersion method for studying liquids' structure.

ROMANOVA, A.V.; SKRYSHEVSKIY, A.P.

X-ray structural analysis of "fused" $H_2SO_4 \cdot nH_2O$ and $HNO_3 \cdot nH_2O$
crystal hydrates. Sbor.nauch.rab.Lab.metallofiz. no.4:
70-76 '53. (MLRA 9:2)
(Crystallization, Water of) (X rays)

SKRYSHEVSKIY, A.F.

Feasibility of using Fourier analysis in the X-ray investigation of
binary liquid systems. Sbor. nauch. rab. Lab. metallofiz. no.4:77-86 1953
(Systems (Chemistry)) (X rays) (Fourier's series) (MLRA 9:2)

SKRYSHEVSKIY, A. F.

Fourier analysis in the X-ray investigation of binary liquids.
 A. F. Skryshevskii. *Voprosy Fiz. Mekh. i Metalloved.*
Akad. Nauk Ukr. S.S.R. 1953, No. 4, 77-80; cf. Danilov
 and Skryshevskii, *C.A.* 45, 3877h. Satisfactory results
 are obtained from use of the interval method for the evalua-
 tion of intensity curves of liquids of any compn., if the idea
 of effective mols. in the soln. is introduced in the calcul. of
 the distribution function. In the general case for liquid
 systems the observed intensity field for the max. differed
 from the intensity found experimentally only by ~ 3%.
 The distribution curves for solns. make the detn. of interat.
 distances possible with a satisfactory accuracy, e.g., in *o*-
 and *p*-dichlorobenzene. The intensity curves and dis-
 tributions are given for these compds. and for benzene. For
 the latter compd. it was for the first time possible to derive
 directly, without any approximations by trial and error
 methods or any assumed model structure, the interat. dis-
 tances between the C atoms of the benzene ring: 1.42
 for *o*-C, 2.45 for *m*-C, 2.84 A. for *p*-C atoms. The curves
 for mixts. 1:1; 1:3; and 1:5 are given for *o*- and *p*-dichloro-
 benzene with benzene.

Handwritten scribbles and a vertical line.

Handwritten initials "SH" and "mji".

SKRYSHEVSKIY, A. F.

"Application of Integral Analysis of Intensity Curves to the Study of the Structure of Binary Solutions." Cand Phys-Math Sci, Laboratory of Metallo-Optics, Acad Sci Ukrainian SSR, Kiev, 1954. (RZhFiz, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: Sum. No. 556, 24 Jun 55

GOLIK, A.Z., doktor fiziko-matematicheskikh nauk, otvetstvennyy redaktor;
RAVIKOVICH, S.D., kandidat fiziko-matematicheskikh nauk, redaktor;
ROSHCHINA, G.P., kandidat fiziko-matematicheskikh nauk, redaktor;
SKRYSHEVSKIY, A.F., kandidat fiziko-matematicheskikh nauk, redaktor.

[Structure and physical properties of matter in liquid state;
papers of a conference held in Kiev, May 28-30, 1953] Stroenie i
fizicheskie svoistva veshchestva v zhidkom sostoianii; materialy
soveshchaniia, sostoiavshegosia v Kieve 28-30 maia 1953 g. [Kiev]
Izd-vo Kievskogo gos. univ. im. T.G.Shevchenko, 1954. 203 p.

(MLRA 9:8)

1. Akademiya nauk URSR, Kiyev
(Liquids)

SKRYSHEVSKIY, A.F.

X-ray investigation of propanol and butanol. A. Z. Golik, A. F. Skryshevskiy, and S. D. Ravikovich. *Doklady Akad. Nauk SSSR*. 1954, 336-40 (Russian summary). The intensity curves of the x-ray dispersion, and the functions of the radial distribution of PrOH and BuOH were detd. Both radial dispersion curves have 2 max. The 1st one corresponds to the least intermol. spacing; the 2nd to the remaining intermol. spacing, and also to the OH spacings of the neighbor mole. The various possible structures of PrOH and BuOH are discussed in the light of the radial distribution functions obtained, and the conclusion is reached that a plane mol. structure of these alcs. agrees best with the results obtained. W. M. Sternberg

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SKRYSHCHENKO, A. F.

"Radiographic Study of the Structure of the Liquid Toluene Molecule".
Sb. Nauchn. Rabot. Labor. Metallofiziki AN Ukr SSR, No 5, pp 21-29, 1954

The method of integral analysis of intensity curves of X-ray reflections was used for the study of liquid toluene. The radiograms were carried out in monochromatic silver and molybdenum radiations in chambers of 120 mm diameter. Angular dependence of intensity is represented in radiograms of toluene and the radial distribution of electron density is computed. The determination of toluene structure shows the group CH_3 located at the position of the second carbon atom in the benzene ring. (RZhFiz, No 10, 1955)

SO: Sum No 812, 6 Feb 1956

*Lab. Metallaphysics AN Ukr SSR and Inst Physics and
Mathematics Acad Sci Ukr SSR*

GOLIK, O.Z.; SKRYSHEVS'KIY, A.F.; RAVIKOVICH, S.D.

X-ray investigation of propyl and butyl alcohols. Dop. AN URSR no.5:
336-340 '54. (MLRA 8:7)

1. Institut fizichnoi khimii im. L.V. Pisarzhevs'kogo AN URSR.
Predstaviv diysniy chlen AN URSR O.I. Brods'kiy.
(Alcohols)

SKRYSHEVSKIY, A. F.

~~SKRISHYEVSKIY, A. F.~~

USSR/ Physical Chemistry - Liquids and Amorphous Bodies. Gases. B-6

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7377

Author : Golik, O.Z. Skryshyevskiy, A.F., and Ravikovich, S.D.

Inst : Academy of Sciences Ukrainian SSR

Title : Radiographic Investigation of Methyl Alcohol

Orig Pub : Dopovidi AN URSR, 1954, No 6, 457-459 (published in Ukrainian with a Russian summary)

Abstract : The X-ray intensity curve and radial distribution function for methyl alcohol have been calculated. The radial distribution curve shows two peaks. The first peak corresponds to the intramolecular distance and the second is determined by the sum of the distances to the OH-groups neighbouring molecules. The first peak in the radial distribution curve was isolated from the large-distance side; this does not agree with the radial distribution curve which previously determined (G.G. Harvey, J. Chem. Phys., 1938, 6, 3, 111).

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SKRYSHEVSKIY, A. F. and RAVIKOVICH, S. D.

"Roentgenographic Investigation of Normal Alcohols", a paper presented at the second conference on the Liquid State of Matter, Kiev, 30 May to 3 June 1955, Usp. Fiz. Nauk, April 1955

DANILOV, Vitaliy Ivanovich, professor, doktor fiziko-matematicheskikh nauk, laureat Stalinskoy premii; KURDYUMOV, G.V., akademik, redaktor; DANILOVA, A.I., redaktor; ZUBKO, A.M., redaktor; KAMENETSKAYA, D.S., redaktor; LASHKO, A.S., redaktor; OVSIYENKO, D.Ye., redaktor; ~~SKRY-~~ ~~SHEVSKIY, A.F.~~, redaktor; SPEKTOR, Ye.Z., redaktor; KAZANTSEV, B.A., redaktor izdatel'stva; RAKHLINA, N.P., tekhnicheskiy redaktor

[Structure and crystallization of liquids; selected articles]
Stroenie i kristallizatsiya zhidkosti; izbrannye stat'i. Pod red. G.V.Kurdiumova. Kiev, Izd-vo Akademii nauk UkSSR, 1956. 566 p.
(MLRA 9:10)

1. Deystvitel'nyy chlen AN USSR (for Danilov)
(Liquids) (Crystallization)

SKRYSHEVSKIY, A. F.

✓ Structure of liquid eutectic alloys Bi-Pb from the data of x-ray diffraction analysis. A. F. Skryshevskii. *Dopovodi Akad. Nauk Ukr. R.S.R.* 1956, No. 1, 62-8 (Russian summary).—The x-ray intensity curves of liquid eutectic alloys of Bi-Pb at 130° were detd. The max. and min. coincided with the curves at 150° obtained by Danilova and Danilov (*Sbornik Tsentral. Nauch. Issledovatel. Inst. Chern. Met.* 1951, 31). The values of the max., however, were higher. These curves superimposed over those of the pure metals indicated a similarity. Thus the theory advanced by D. and Radchenko (cf. *C.A.* 31, 2094⁴) that in a liquid eutectic alloy there are regions similar in structure to those of the pure constituents was corroborated.

Phys 1

Inst. Metall. Physica AS Ukr SSR

SKRYSHEYS'KIY, A.F.

27

Structure of liquid mercury. A. F. Skrishevs'kiy, D. M. Karlikov, and D. P. Karukova (State Univ., Kiev, Ukraine). *Ukrain. Fiz. Zhur.* (Suppl.) 2, No. 2, 46-53 (1957).
 Liquid Hg was investigated with Cu K α x-rays at room temp. The vibration of the Hg surface was heavily reduced by the application of special shock absorbers, and the centering of the specimen and the position of the meniscus were checked continuously. The intensity curve obtained was similar to the ones by Danilov and Nelmark (*Zhur. Ekspl. i Teor. Fiz.* 8, 724 (1935)), by Debye and Meike (*C.A.* 24, 5606) and by Vineyard (*C.A.* 49, 7136). The radial distribution function was calc. by a Fourier transformation; it shows maxima for $r = 3.12, 4.1, \text{ and } 6.1 \text{ \AA}$, just as this was found earlier by Vineyard. The distribution of the Hg atoms in the liquid at room temp. is not the same as that in the solid stat. The most probable distance between and among adjacent atoms is 3.12 \AA ; the av. coordination no. is 8.
 Werner Jacobson

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4E4)

Ba

MT //

SKRYSHVSKIY, A.F. [Skryshevs'kyi, A.F.].

Structure of molten Au - Sn compounds [with summary in English].
Ukr. fiz. zhur. 2 no.4:363-368 O-D '57. (MIRA 11:3)

1. Institut metalofiziki AN URSS.
(Gold-tin alloys--Spectra)

137-58-6-13135

Translation from Referativnyy zhurnal. Metallurgiya, 1958, Nr 6, p 279 (USSR)

AUTHOR. Skryshevskiy, A.F.

TITLE. X-ray Investigation of the Short-range Order in Some Liquid Alloys (Rentgenograficheskoye issledovaniye blizhnego por-yadka v nekotorykh zhidkikh splavakh)

PERIODICAL. Sb. nauchn. rabot In-ta metallofiz. AN UkrSSR, 1957, Nr 8, pp 187-198

ABSTRACT. Using alloys of Pb-Sn, Bi-Pb, and Al-Sn, quantitative data were obtained on the ordering of the atoms in liquid eutectics and molten metallic alloys. X-raying was performed in a vacuum chamber 78 mm diam; the molten metal had a free surface. Cu-K α radiation, monochromatized by reflection off a bent quartz crystal was used. In drawing the intensity curves (IC), corrections were made for polarization and absorption in the sample. For eutectic alloys (EA) of Pb-Sn (74 atom % Sn) and Bi-Pb (43 atom % Pb), the IC in a first approximation can be regarded as the result of a superposition of the IC of each component of the EA. In the EA mentioned there are two types of atom packing corresponding to the structure of the pure

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137-58-6-13135

X-ray Investigation of the Short-range Order in Some Liquid Alloys

components in the liquid state. The IC of molten alloys Au Sn (I), AuSn₂ (II), and AuSn₄ (III) differ from the IC's of their components. Curves of the radial distribution (CRD) show that I, II, and III have different structures. In these alloys atoms of one kind are surrounded mostly by atoms of another kind (the short-range order in the solid and liquid state is the same). The character of CRD shows that the structural units of I and II are not molecules but atoms. Interatomic distances and coordination figures for the aboveindicated alloys are quoted.

A.B.-Z.

1. Liquid metals--Analysis 2. X-rays--Applications

Card 2/2

S/180/60/000/006/012/030


E201/E391

AUTHOR: Skryshevskiy, A.F. (Kiyev)

TITLE: The Short-range Order Structure in Liquid Metals and Alloys

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, No. 6, pp. 72 - 76

TEXT: The existence of the short-range order in liquids is well established but the question of the relationship of the short-range order with the crystal structure in the solid phase is still an open one. On melting, the coordination number of pure metals does not remain constant (table on p. 73). When the packing of atoms in the solid state is sufficiently close, the coordination number is reduced somewhat on melting. Metals which are loosely packed in the solid state exhibit an increase of their coordination number on fusion. These coordination-number changes can be easily explained using the Frenkel'-Samoylov ideas on thermal motion of atoms in a liquid. V.I. Danilov showed that the existence of a particular
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S/180/60/000/006/012/030
E201/E391

The Short-range Order Structure in Liquid Metals and Alloys

atomic configuration in a liquid alloy is governed by the interactions of like and unlike atoms. If aggregation of like atoms is energetically favoured, then ordered regions will consist predominantly of atoms of one type and the alloy will have a quasi-eutectic structure. A direct confirmation of the quasi-eutectic structure of eutectic liquid alloys is given by the additivity of their diffraction patterns and atomic distribution curves (the pattern of the alloy is the sum of the patterns of the components); this is shown for Bi-Pb alloys in Fig. 2. With increase of temperature atoms of bismuth and lead are gradually mixed up so that a uniform atomic solution is formed (Fig. 3). These and other results confirm the ideas of V.I. Danilov and I.V. Radchenko on retention of the quasi-eutectic structure in eutectic melts. If aggregation of unlike atoms is energetically favoured, then ordered regions in a liquid alloy will consist of atoms of both components. This type of structure occurs in molten intermetallic compounds. In contrast to liquid eutectic systems, melts of intermetallic compounds have

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The Short-range Order Structure in Liquid Metals and Alloys
diffraction patterns quite different from the patterns of
their components. This can be easily seen in the case of
compounds AuSn, AuSn₂ and AuSn₄; the lattices of AuSn
and AuSn₄ are shown in Figs. 4a and 4b, respectively (the
lattice of AuSn₂ is not known). Fig. 5 shows an atomic
distribution curve for liquid AuSn. An estimate of the area
under the first maximum of this curve shows that the total
number of atoms in the first and second coordination spheres
is equal to eight. The coordination number in the third
coordination sphere cannot be deduced exactly: all that we
can say is it is somewhat greater than eight. It follows
that near the melting point of AuSn the first and second
coordination spheres retain the short-range order structure
of the solid phase. This is also true of other intermetallic
compounds. ✓

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The Short-range Order Structure in Liquid Metals and Alloys

There are 5 figures, 1 table and 10 Soviet references.

SUBMITTED: August 26, 1960

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PHASE I BOOK EXPLOITATION

SOV/6190

Skryshevskiy, Anton Frantsevich

Difraktsiya rentgenovskikh luchey, elektronov i neytronov v gazakh i stroyeniye molekul (Diffraction of X-Rays, Electrons, and Neutrons in Gases, and the Formation of Molecules) [Kiyev] Izd-vo Kiyev. univ., 1961. 84 p. 2000 copies printed.

Sponsoring Agencies: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya UkrSSR; and Kiyevskiy ordena Lenina gosudarstvennyy universitet im. T. G. Shevchenko.

Resp. Ed.: A. Z. Golik, Professor; Ed.: E. V. Drozhzhin; Tech. Ed.: Ye. D. Okopnaya.

PURPOSE: This book is intended for scientific workers and students in advanced courses.

COVERAGE: The book forms part of a series of lectures on "The structure of molecules, their properties, and intermolecular forces"

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Diffraction of X-Rays, Electrons, (Cont.)

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delivered at Kiyev University. It contains the theory of scattering of x-rays, electrons, and neutrons in gases, as well as means of determining the structure of molecules from x-ray and electron-diffraction data. The main emphasis is on explanation of the physical nature of scattering. No personalities are mentioned. There are 9 references: 6 Soviet and 3 translations.

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1. Experimental diffraction of x-rays by gas molecules	4
2. Theory of x-ray scattering in gases	6
a. x-ray scattering by bound electrons	7
b. x-ray scattering by free electrons	9
c. x-ray scattering by monatomic gases	18
d. x-ray scattering by gas molecules	32
3. Effect of temperature on x-ray scattering by gas molecules	40

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S/843/62/000/000/003/010
D207/D308

INTRO: Shryshevskiy, A.F., Klochkov, V.P. and Pasechnik,
Yu.V.

TITLE: X-ray diffraction investigation of the structure of
some liquid organosilicon compounds

SOURCE: Stroyeniye i fizicheskiye svoystva veshchestva v
zhidkom sostoyanii; materialy IV soveshch. po probl.
zhidkogo sost. veshchestva, v Kiyevе 1959 g. Kiev,
Izd-vo Kiev. univ., 1962, 50-56

NOTE: The investigation was carried out because of the
great technical importance of organosilicon (silicone) compounds.
Using $\text{Co K}\alpha$ radiation ($\lambda = 0.171 \text{ \AA}$) the authors studied linear and cy-
clic compounds with ethyl and methyl radicals. The intensity dis-
tribution curves were quite different for the linear and cyclic
structures. From the electron density distribution maps and other
data, the bond lengths, valence angles, geometrical forms and dimen-
sions were determined for $(\text{CH}_3)_6\text{Si}_2\text{O}$, $(\text{CH}_3)_8\text{Si}_3\text{O}_2$, $(\text{CH}_3)_{10}\text{Si}_4\text{O}_3$,

Card 1/2

X-ray diffraction investigation ...

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D207/D308

$(\text{CH}_3)_{12}\text{Si}_5\text{O}_4$, $[(\text{CH}_3)_2\text{SiO}]_4$, $[(\text{CH}_3)_2\text{SiO}]_5$, $(\text{C}_2\text{H}_5)_6\text{Si}_2\text{O}$,
 $(\text{C}_2\text{H}_5)_8\text{Si}_3\text{O}_2$, $(\text{C}_2\text{H}_5)_{10}\text{Si}_4\text{O}_3$, $(\text{C}_2\text{H}_5)_{12}\text{Si}_5\text{O}_4$, $[(\text{C}_2\text{H}_5)_2\text{SiO}]_3$,
 $[(\text{C}_2\text{H}_5)_2\text{SiO}]_4$. Acknowledgement is made to Professor A.Z. Golik
for his advice. There are 5 figures and 2 tables.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiev State
University)

Card 2/2

SKRYSHEVSKIY, A.F.

On the interpretation of the structure of monatomic liquids.
Ukr. fiz. zhur. 7 no.8:826-833 S '62. (MIRA 16:1)

1. Kiyevskiy universitet.
(Liquids) (Scattering (Physics))

BOGOMOL, A.P.; SKRYNNIKOVA, A.I.

Structural characteristics of near cation surrounding in aqueous solutions. Zhur. strukt. khim. 5 no.5:911-913 M-D '64. (MIRA 18:4)

L. Kievskiy gosudarstvennyy universitet.

KLOCHKOV, V.P.; SKRYSHEVSKIY, A.F.

X-ray diffraction study of molecular liquids. Ukr. fiz. zhur.
9 no.4:420-428 Ap '64. (MIRA 17.8)

I. Kiyevskiy gosudarstvennyy universitet.

MITSYUK, B.M.; DOROSH, A.K.; SKRYSHEVSKIY, A.F.; VYSOTSKIY, Z.Z.

X-ray diffraction study of dehydration of silicic acid hydrogel.
Koll. zhur. 27 no.6:846-849 N-D '65. (MIRA 18:12)

1. Institut fizicheskoy khimii AN UkrSSR imeni L.V. Pisarzhevskogo
i Kafedra molekulyarnoy fiziki Kiyevskogo universiteta.

SKRZAT, Z.

10 3

4

Morphology of gypsum crystals from Dobrzyń and their luminescence. Z. Skrzat (Univ. Copernicus, Toruń). *Pol. Akad. Nauk, Komitet Geol., Arch. Mineral.* 18, 177-88 (1955) (English summary).—The angles between planes of gypsum crystals were detd., the method of a single-circle goniometer being used. The average values are as follows: (110):(110) 68°38.4'; (010):(110) 55°29.3'; (111):(111) 35°7.8'; (110):(111) 50°3.5'; (010):(111) 72°28.6'. In ultraviolet rays the crystals show fluorescent pyramids of growth (111), more distinctly in the pale greenish crystals than in the colorless ones contg. brown coal inclusions. The crystals were lighted either by a quartz lamp with Wood's filter (I) (4000-3200 Å. with max. at 3600 Å.), or by mineral light (II) (max. at 2540 Å.). When lighted by I the fluorescence spectrum of greenish crystals showed the max. at about 4000 Å. (bluish-white). Use of II caused greenish fluorescence of the (111) pyramids, whereas the rest of the crystal remained dark. The time of phosphorescence was 5-10 sec. The colorless crystals showed the same greenish-yellow fluorescence when lighted either by I or by II.

Jan Burchart
PM 2/20/56

SKRZAT, Zofia

Gypsum twinnings from Koronowo. Kwartalnik geol 8 no.1:145-160
1964.

1. Katedra Mineralogii, Uniwersytet im. Mikolaja Kopernika,
Torun.

SKRZATK, Franciszek

Analog models of symmetrical, statically indeterminate structures. Problemy proj hut maszyn 11 no.9:265-272 S'63

1. Akademia Gorniczo-Hutnicza, Krakow.

SKRZATEK, Franciszek

Application of electric analogue systems to the computation of statically indeterminable structures subject to loads changing their quantity or point of application of force. Problemy proj hut maszyn 10 no.11:321-332 N '62.

1. Akademia Gorniczo-Hutnicza, Krakow.

SKRZATEK, Franciszek

Application of the electric analogue system to the computation of statically indeterminable structures subjected to loads changing their size or point of force application. Probl proj hut maszyn 11 no.2:33-39 F '63.

1. Akademia Gorniczo-Hutnicza, Krakow

SKRZATOWNA, ZOFIA

G **P** **V** The morphology of gypsum crystals from Dobrzyń and their luminescence. Zofia Skrzatowa (Copernicus Univ., Torun, Poland). ~~Polish Akad. Nauk Kom. Geol., Arch. Mineralog.~~ 18, 177-85(1984)(Pub. 1955)(English summary).—Goniometric data are given. The crystals show distinct fluorescence under ultraviolet light. Photometric measurements of the fluorescence spectra all showed max. at 4800 to 4700 Å. The cause of the fluorescence is unknown.
Michael Pletscher

SKRZATOWNA, Zofia

Investigations of feldspars of the Pieniny andesites, in order to explain the ambiguity in determining the twin axis by Fedorov's method, and the optical properties of the C direction. Kwartalnik geol 3 no.1:152-159 '59. (EEAI 9:8)

1. Uniwersytet im. Mikolaja Kopernika w Toruniu.
(Poland--Feldspar) (Poland--Andesites)

... (Torun)

Application of thermoluminescence in solving geologic problems.
Wzrostkiat no. 1:12-13 Ja '64.

SKRZEKOT, J.

"Construction of tall buildings" p. 194. (Przegląd Techniczny, Vol. 74, No. 5, May 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl

SIEZAK, J.

SIEZAK, J. National Conference on Building p. 98

Vol. 77 no. 3, Mar. 1956

PRZEGLĄD TECHNICZNY

TECHNICZNY

Warszawa, Poland

So: East Europe Collection Vol. 6, no. 2, 1957

SKRZEKOT, Jozef, mgr., inz.

Does it bother or lead into a better future: the problem of automation. Przegl techn no.11:1,3 Mr '62.

SKRZEKOT, Jozef, mgr inz.

On the realization of certain resolutions of the 4th Plenum of the
Central Committee of the Polish United Workers Party. Przegł techn
no.8:l 21 F '62.

SKRZEKOT, Jozef, mgr inz.

Has it been a worry or rather a lead into a better future? Przegł
techn no.11:1,3 18 Mr '62.

SKRZEKOT, J., inz.

The extraction and utilization of natural gas has been growing
in the U.S.S.R. Przegł techn no.41:3-4 12 0 '60.

SKRZEKOT, Josef, mgr inż.

Industrial building in the future. *Prace techniczne* 18 no.4:7-9
Ap '65.

SKRZELA, J.

POLAND/Acoustics - Atmospheric Acoustics. Hydroacoustics

J-5

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6593

Author : Skrzela Jerzy

Inst :

Title : The "Teeth" Effect on Echographs on the Echo Sounding Device ES-1

Orig Pub : Proc. II. conf. ultrason., 1956, Warszawa, PWN, 1957, 215-218

Abstract : Echographs of the profile of a bottom, recorded with the aid of the echo sounding device ES-1, show distortions in the form of teeth, the height of which depends on the depth of the investigated region. The investigations have shown that the source of the distortion are the inaccuracy in the manufacture of the gear train. Although the period of the noise teeth does not coincide with any one period of rotation of the gears used in the recorder, nevertheless there are two gears, the interaction time of which coincides with the sought period. A mathematical analysis of the motion of the driven gear in the case of inaccurate setting of the shaft of the

Card : 1/2

POLAND/Acoustics - Atmospheric Acoustics - Hydroacoustics

J-5

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6593

driving gear has shown that an inaccuracy on the order of 1.5 percent may be the source of such a noise. A diagram is given showing the dependence of the height of the teeth on the number of revolutions of the driving gear of the recorder pin at various depths. -- Yu.Ye. Borisov

Card : 2/2

SKRZELA, JERZY K.

55

Symposium on Electroacoustic Transducers

PCL/5981

The following basic problems are treated: 1) theoretical research on energy transformation processes; 2) experimental development of new types of transducers; 3) electroacoustic measurements; 4) technology of piezoelectric and magnetostrictive materials; 5) construction of transducers for technical needs; and 6) design of acoustical transducer systems. No personalities are mentioned. References (if any) follow the individual articles.

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1. Classification of electromechanical transformation methods in the light of the tasks faced with them [sic] the design and construction of electroacoustic equipment. V. S. Grigor'yev	7

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Symposium on Electroacoustic Transducers

POL/5981

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| Ch. 3. | Design and Properties of Electroacoustic Transducers | 275 |
| 28. | Intermodulation distortion in loudspeakers. Joseph Merhaut | |
| 29. | On the behavior of second-order gradient microphones in the near field. Carl Feik | 287 |
| 30. | Certain problems of loudspeakers in stereophony and pseudo-stereophony. Wacław Koltowski | 290 |
| 31. | Possibilities of increasing the efficiency of electromechanical transducers applied to electrodynamic loudspeakers. Zoltan Barat | 304 |
| 32. | Methods for mechanical damping of dynamic loudspeakers by the application of porous materials. L. Keibs | 313 |
| 33. | Combined electroacoustic transducers with the directivity characteristic rotating azimuthally. Jerzy K. Skrzela | 327 |
| 34. | Experimental research on the radial ultrasonic field of the cylindrical barium titanate transducer. T. Tarnoczy and A. Illenyi | 337 |
| 35. | Construction of up-to-date electroacoustic transducers. Stevan Milosavljevic | 345 |

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Symposium on Electroacoustic Transducers

POL/5981

- 36. Underwater piezoelectric electroacoustic transducer with a flat frequency response from 100 Hz to 100 kHz. Zygmunt Nagiello 353
- 37. Splitting of ultrasonic pulse in magnetostrictive transducers fed by overvolting systems. Jerzy K. Skrzela 361
- 38. Calibration exciter for checking accelerometers. Per V. Bruel 375
- 39. Calibrator for phonograph pickups. Zygmunt Komornicki 379
- 40. Non-reflecting piezoelectric probe and equipment for measuring ultrasonic field intensities in fluids. J. Karpinski and J. Wehr 385
- 41. Investigation of the bases of ultrasonic generation in a flow-type equipment. Boleslaw Lesniak 393
- 42. Ultrasonic hydrogenerators. C. Wachtl, A. Sigalin, and E. Karczmarczyk 401
- 43. Particular case of mechanoelectric transducer applied to steel construction testing. Stefan Ziemia and Jerzy Kasinski 405

Card 7/8

SKRZETUSKT, A.

We avail ourselves of the possibilities of fulfilling the purchase of eggs ahead of time.

p. 5 (Rolnik Spoldzielca. Vol. 9, no. 29, July 1956, Warszawa, Poland).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 2, Feb. 1958

SKRZHINSKAYA, I.Ch.

"Principles of the X-ray diagnosis of silicosis and other types of
pneumoconiosis" by K.P. Molokanov. Reviewed by I.Ch. Skrzhinskaja.
Vest.rentg. i rad. 33 no.1:88-89 Ja-F '53. (MIRA 11:4)
(LUNGS--DUST DISEASES) (MOLOKANOV, K.P.)

SKRZHINSKAYA, I.Ch., starshiy nauchnyy sotrudnik

Use of fluorography in the examination of the stomach. Trudy
TSentr. nauch.-issl. inst. rentg. 1 rad. 10:19-27 '59.

(MIRA 12:9)

(DIAGNOSIS, FLUOROSCOPIC) (STOMACH---CANCER)

SKRZHINSKAYA, I.Ch., kand.med.nauk (Moskva, V-162, Khavsko-Shabolovskiy per.,
d.18/2, kv.12); BUNDEL', A.A., doktor khim.nauk; RUSANOVA, A.I.,
kand.khim.nauk

Limitations in the detection of vascular details in roentgenoscopy,
roentgenography, and fluorography of the thorax. Vest.rent.i rad.
34 no.3:24-30 My-Je '59. (MIRA 12:10)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdravookhraneniya
RSFSR (dir. - dotsent I.G.Lagunova).

(LUNGS, blood supply
x-ray technics, model studies (Rus))

SKRZHINSKAYA, I.Ch.

"Practice of large-frame fluorography and functional X-ray diagnosis."
Reviewed by I.Ch. Skrzhinskaia. Vest. rent. i rad. 36 no.5:70-72
S-0 '61. (MIRA 15:1)

(RADIOLOGY, MEDICAL)

AD 101
P. SZYMCZYŃSKA, Jolwiga; SĄPIJĄCZYŃSKI, Zdzisław;
Marian

Microangiographic evaluation of the blood-clotting system and
fibrinolysis after gynecological operations. Pol. tyg. lek. 20
no.31:1147-1150 2 Ag '65.

I. Z II Kliniki Położnictwa i Chorob Kobięcych AM w Białymstoku
(Kierownik: doc. dr. med. J. Musiatowicz).

CHLADKOWSKI, S.

"Experience of the Preparatory Camp for the 1st International Glider Contest in the field of tactics of Speedy Gliding. Szybownik", p. 35, (SZYBYLATA POLSKA, Vol. 10, No. 47, Nov. 1954, Warszawa, Poland)

NO: Monthly List of East European Accessions, (REML), LC, Vol. 4, No. 5, May 1955, Uncl.

WYPIWYKI, S.

"Experience of the Preparatory Camp for the 1st International Glider Contest in the Field of Tactics of Speedy Gliding", (Conclusion) Szybownik, p. 37, (SZYBOWNIKI POLSKIE, Vol. 10, No. 50, Dec. 1954, Warszawa, Poland)

OO: Monthly List of East European Accessions, (MEML), LG, Vol. 4, No. 5, May 1955, Encl.

WROBLEWSKI, Marian; SKRZYDLEWSKI, Zdzislaw; WISNIEWSKI, Lucjan; BIELECKI, Marian, Jezuita, Jan.

The evaluation of blood clotting and fibrinolysis systems in cases of early pregnancy and after its interruption. Ginek Pol. 36 no.2:141-146 F '65.

1. Z II Kliniki Położnictwa i Chorob Kobietych Akademii Medycznej w Białymstoku (Kierownik: doc. dr. med. J. Musiatowicz).

MUSIATOWICZ, Józef; WRÓBLEWSKI, Marian; SKRZYDLEWSKI, Zdzisław;
BIRLEWSKI, Marian; JEZUITA, Jan

Thromboelastographic evaluation of the treatment of menorrhagia
using epsilon-aminocaproic acid. Ginek. Pol. 36 no.3:293-298
Mr '65.

1. Z II Kliniki Położnictwa i Chorob Kobięcych AM w Białymstoku
(Kierownik: doc. dr. med. J. Musiatowicz).

ABSTRACT: KRZYDLEWSKA, Jadwiga; KRZYDLEWSKI, Edzislav;
KUCI, Marian

thrombelastographic evaluation of the blood-clotting system and
fibrinolysis after gynecological operations. Pol. tyg. lek. 20
no.31:1147-1150 2 Ag '65.

I. W II Kliniki Poloznictwa i Chorob Kobietych AM w Bialymstoku
(Kierownik: doc. dr. med. J. Musiatowicz).

MUSIATOWICZ, Jozef; WROBLEWSKI, Marian; GULANOWSKA, Helena;
SKRZYDLEWSKI, Zdzislaw

Thromboelastographic investigations in cases of the uterine
cervix cancer. Ginek. Pol. 36 no.10:1113-1116 0 '65.

1. Z II Kliniki Poloznictwa i Chorob Kobietych AM w Bialym-
stoku (Kierownik: doc. dr. med. J. Musiatowicz).

VEL'GUS, S. [Velgus, S.], planerist; MAKULYA, E. [Makula, E.], plane-
rist; SKSHIDLEVSKIY, S. [Skrzydlewski, S.], planerist;
SNESHKO, Ya. [translator]; VASIL'YEV, A.A., red.;
DVOYENOSOV, D.V., red.; ZAMYATIN, V.M., red.; SOROKIN, M.Z.,
tekhn. red.

[Flights in a glider] Perelety na planere. Moskva, DOSAAR,
1963. 145 p. Translated from the Polish. (MIRA 16:10)
(Gliding and soaring)

SKRZYNIARZ, S.

Stolarczyk and Co. p. 8; ROLNIK SPOLDZIELCA. (Centrala Rolnicza Spoldzielni "Samopomoc Chlopska") Warszawa; Vol. 8, no. 26, June 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 4. No. 12, December 1955.

SRZYNIARZ, S.

"A flower of a fern has bloomed."

p. 2 (Rolnik Spoldzielca) Vol. 10, no. 3, Jan. 1958
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

PRZYLUKSI, Jan,dr.; BIERZYNSKI, Andrzej; SKRZYNICI, Wieslaw

Research on the nickel powder preparation process. Rudy i
metale 8 no.9:342-344 S*63.

SHYLOSKI, Jan, Jr. and SHYLOSKI, Jan, Sr. SHYLOSKI, Jan, Sr.
Missis., MAF 1960

Studies on the process of nickel powder production. Pt. 2.
Study 1 metal 5. n. 1012-219 N. 1960

SZYMBORSKI, Bohdan; UJWINSKI, Stanislaw; WILCZYNSKI, Andrzej

Thrombelastographic studies of the blood coagulation system
in psychoses. Neurol., neurochir., psj. Mat. Vol. 14 no. 4:
615-622 Jan-84

1. z Kliniki Psychiatrycznej Akademii Medycznej w Białymstoku
(Kierownik: prof. dr. med. I. Korzalski) i z Wojewodzkiego
Szpitala Reumatyczno-Ginekologicznego w Białymstoku (dyrektor:
dr. med. M. Doroszko).

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Results of bacteriological examinations of material obtained with a special apparatus during I.G. flights. The strata were investigated from 50 to 6,000 m. above ground level. Laboratory work started immediately after each flight. Coccaceae were present in 50.3%, Bacteriaceae in 3.65%, Bacillaceae - 39.80%, Actinomycetaceae - 3.10%, Spirillaceae - 0.15%. Among the Coccaceae pigmented species of Micrococcus prevailed; *M. pyogenes aureus* was found several times in summer at 1,000 m.; *Sarcina flava*, *lutca* and *aurantiaca* were also present. The most frequently found Bacillaceae were *B. albus*, *B. silvaticus*, *B. mycoides*, *B. nasentericus*, *B. subtilis*, *B. simplex* etc.; Bacteriaceae: *Proteus vulgaris*, *Achromobacter filifaciens*, *A. albus*, *A. pestifer*, *Spirillaceae* and *Actinomycetaceae* were found rather accidentally (after strong ascending air currents in thermal storms). The character of the ground over which samples were collected influenced the qualitative results up to the height of 500 m. Sometimes bacteria were more abundant above 3,000 m. than in lower strata. Marked quantitative decline of microorganisms began above 4,000 m. A large quantity of *Serratia marcescens* cultures was spread at the height of 300-2,000 m. A second plane flew through the same area after a determined time and gathered samples of the air. In the horizontal and ascending currents falling of bacteria was slight. Quantities of bacteria decreased with the square of distance. Bacteria sprayed above 1,000 m. were never found in the strata near the ground. Bacteria sprayed at 300-400 m. above the ground fell down in still weather after 2-3 hours in the area of spreading. Clouds carried the bacteria sprayed into them. The most frequently found mould spores were of the following species: *Penicillium glaucum*, *P. szafaryi*, *P. matris maeae*, *Aspergillus fumigatus*, *A. niger*, *A. terreus*. Pollen of the following families and

SEBLYNSKA J. A. (continued)

Genera was found most frequently: Graminaceae, Abietaceae, Fagaceae, Betulaceae, Compositae, Ranunculaceae, Umbelliferae; Salix, Carpinus, Quercus, Pinus, Picea, Alnus, Fraxinus and others. The greatest amount of pollen was found at the height of 3,500 m. Above 5,000 m. pollen appeared in minimal quantities.

Mikower - Wroclaw

So: Medical Microbiology & Hygiene Section IV, Vol. 3, No. 7-18

CA SKRZYŃSKI, T

16

Top and bottom alcoholic fermentation. Tadeusz J.
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1957

T. SKRZYNSKI

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SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, No. 5,
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p. 14 (Budownictwo Wejskei) Vol. 7, No. 5, Sept./Oct., 1955, Warszawa, Poland

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SKRZYŃSKI, Tadous, mgr inż.

Investigation of the deformation trend of the 1020F bearing alloy
and its effect on the properties of the alloy. [illegible] techn. Jagielski
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KRZEMSKI, Tadeusz, dr inż.

Mechanical properties and abrasibility of the IN30F bearing alloy used for bearings of ship engines. Przegl mech 24 no.10: 111-25 My '65.

1. Division of Machine Building of Poznan Technical University.

SKRZYPCZAK, EWA

POLAND/Nuclear Physics - Elementary Particles

C-3

Abs Jour : Ref Zhur - Fizika, No 3, 1958, No 5400

Author : Skrzypczak, Ewa

Inst : Not Given

Title : Heavy Mesons

Orig Pub : Kosmos (Polska), 1957, B 3 No 3, 127-134

Abstract : No abstract

Card : 1/1

BOBER, Stanislaw; KRUZE, Dariusz; DABROWA, Romuald; IWANSKA, Janina;
SKRZYPCZYK, Ewa

Quantitative determination of free amino acids in the blood serum in normal subjects by means of column-paper chromatography. Polskie arch. med. wewn. 32 no.5:443-454 '62.

1. Z Katedry i Kliniki Chorob Wewnetrznych Klinicznego Centralnego Szpitala W.A.M. Kierownik: prof. dr med. S.Bober.
(AMINO ACIDS blood) (CHROMATOGRAPHY)

SKRZYPCZAK, E

P Q L O N

539.18

6495. A possible example of decay in flight of a charged hyperon. M. DANYSZ, J. GIERULA AND E. SKRZYPCZAK. *Bull. Acad. Polon. Sci. Cl. 3, 3, No. 4, 21-3 (1955).*

A track from a star of type 18 + 11p is observed to suddenly change its direction by 22° and its grain-density from 66 to 44 grains per 50μ. The latter rules out the possibility that the event is a single scattering. From grain-density v. scattering measurements on 2.5mm the mass of the primary is $(1930^{+670}_{-490}) m_e$ and on 3mm the mass of the secondary is $(2160^{+650}_{-500}) m_e$. The decay scheme $\Lambda^+ \rightarrow P + \pi^0$ is suggested. On this basis the Q-value is (140^{+40}_{-30}) MeV and the mass of the hyperon $(2370^{+80}_{-60}) m_e$, the time of flight being 3×10^{-11} sec.

D. J. PROWSE

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SZARYPCZAK, E.

"Heavy mesons."

p. 127 (Kosmos. Serbia B: Przyroda Nieożywiona) Vol. 3, no. 2, 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EMAI) LC. Vol. 7, no. 4,
April 1958

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Filipkowski, A., SKRZYPCZAK, E., Somogyi, A.*, (Institute of Nuclear Research, Warsaw), and Wroblewski, A. (Inst. of Physics, Warsaw Univ.), "Two events of mesonic decay of hyperfragments in flight." Nuclear Physics, Vol. VII, No. 6, 1958. pp643-45. (Received 31 Mar 58)

*On leave from the Central Research Institute for Physics of the Hungarian Academy of Sciences. Department of Cosmic Rays, Budapest.

SKRZYPCZAK, E.

~~Determination of the mass of the Λ^0 hyperon. J. Bogdanowicz, M. Danysz, A. Filipkowski, E. Marguit, B. Skrzypczak, A. Wroblewski, and J. Zakrzewski (Univ. Warsaw). *Nuovo cimento II*, 727-9(1959)(in English).—A stack of pellicules, 10 cm. X 10 cm., of 600- μ Ilford G5 emulsion was exposed to the Berkeley K^- beam; 80 plates were searched to detect decays of the Λ^0 hyperon. Protonic decays (22) of the Σ^+ hyperon at rest have been found; 53 2-prong stars are classified as good examples of Λ^0 -hyperon decay. The qualities of the emulsion are analyzed from the data. A total of 58 2-prong stars are tentatively identified as $\Lambda^0 \rightarrow p + \pi^-$ decays. A histogram shows the distribution of the Q -values as calcd. for these stars. The mass of the Λ^0 hyperon is 1118.42 ± 0.19 m.e.v.~~
~~Manfred Mannheim~~

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SKRZYPCZAK, E.

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P/045/60/019/003/001/010
B022/B070

24.6810

AUTHORS: Bogdanowicz, J., Danysz, M., Filipkowski, A., Marquit, E.,
Skrzypczak, E., Wróblewski, A., and Zakrzewski, J.TITLE: Determination of the Mass of the Λ^0 Hyperon ¹²

PERIODICAL: Acta Physica Polonica, 1960, Vol. 19, No. 3, pp. 277 - 287

TEXT: The energy of the decay $\Lambda^0 \rightarrow p + \pi^-$ measured in recent years by several groups of investigators using chamber and emulsion techniques shows discrepancies in some cases that are large in comparison to the errors quoted. On account of its importance, the authors have tried to determine the mass of Λ^0 based on larger statistics. As a source of Λ^0 hyperons, they chose the K^- mesons in nuclear emulsion. They used a stack of 180 plates $10 \times 10 \text{ cm} \times 600 \mu$ of Ilford 65 emulsion exposed to the enriched K^- beam ($\sim 300 \text{ Mev/c}$) from the Berkeley bevatron. For the shrinkage factor of this emulsion they found the weighted mean of estimates by two independent methods to be $s_1 = 2.21 \pm 0.027$. The stopping power of the emulsion was found to be $R_{st}/R = 1.002 \pm 0.003$.

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Determination of the Mass of the Λ^0 HyperonP/045/60/019/003/001/010
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All measurements for each day were made under high magnification independently by two observers. Horizontal projections of the tracks were generally made on Zeiss Lumphian microscopes adapted for emulsion work, vertical projections were made on a Zeiss optimeter coupled to a Koristka MS2 microscope. The projected angles between the decay prongs were measured by a goniometer attached to the eyepiece of the microscope. The dip angles of the tracks were measured on a Koristka MS2 microscope. Assuming that the secondary particles are protons and pions the Q-values for each event were calculated. In the evaluation of random errors for the individual Q-values, errors in angular momentum, range measurements, straggling, shrinkage factor, and stopping power were taken into account. From their studies of 53 decays of Λ^0 hyperons, the authors obtain the following results for Q value and mass of Λ^0 :

$Q_{\Lambda} = (37.58 \pm 0.18)\text{Mev}$, $M_{\Lambda} = (1115.42 \pm 0.19)\text{Mev}$. Thanks are made to the

scanning staff of the laboratory: Mrs. K. Bobińska, Mr. R. Dabrowski,
Mrs. M. Pazdanowska, Miss W. Saniewska for their careful work, and
especially Mrs. I. Przyrkowska for her efficient help in scanning,
measurement, and calculation. There are 2 figures, 2 tables, and

Card 2/3

Determination of the Mass of the Λ^0 Hyperon

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B022/B070

12 references: 1 Soviet, 3 US, 5 Italian, and 1 Dutch.

ASSOCIATION: Institute of Physics, Warsaw University, and Institute of
Nuclear Research, Warsaw

Card 3/3

SKRZYPCZAK, Edward; SMOLENSKI, Julian

Construction of geophysical measuring instruments at the Geophysical Research Enterprises in the years 1952-1961. Przegl geol 9 no.10: 510-511 '61.

1. Przedsiębiorstwo Poszukiwan Geofizycznych.

(Poland--Geophysics)