

BLOKHIN, N.N.

[Cancer] Rakovaya bolezni'. Moskva, Izd-vo "Znanie," 1954. 31 p.
(Vsesoiuznoe obshchestvo po rasprostraneniю politicheskikh i
nauchnykh znaniy, Ser. 3, no.20) (MLRA 7:6)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR.
(Cancer)

BLOKHIN, N.N., professor (Moscow)

Considerations on problems of the etiology and pathogenesis of malignant tumors; brief report on the inter-institutional conference of the Academy of Medicine of the U.S.S.R. Khirurgiia no.3:

70-73 Nr 154.

(MLRA 7:5)

(NEOPLASMS, etiology and pathogenesis,
*cont.

BLOKHIN, N. N.

Uspekhi Vosstanovitel'noy Khirurgii (Advances in Plastic Surgery), by Prof N. N. Blokhin, Corresponding Member, Academy of Medical Sciences USSR, Series III, No 11, "Znaniye," Moscow, 1955, 23 pp

This booklet describes operations connected with grafting of tissues and organs, including various types of grafts of skin, bone, cartilage, tendons, muscles, and blood vessels. Operations are performed on the face, nose, lips, eyelids, and internal organs such as the scapula and the elbow joint.

Sketches show the area from which grafts were taken. Pictures of the patients before and after the operations illustrate satisfactory results.

Sum 1239

BLOKHIN, N.N.

[Practical manual on disseminating information about cancer
prevention] Metodicheskoe posobie po protivorakovoi propogande.
Izd. 3-e, ispr. i dop. Moskva, 1955. 132 p. (MIRA 10:3)
(CANCER--PREVENTION)

BLOKHIN, N.N., professor; RYBUSHKIN, I.N., redaktor; GABERLAND, M.I.,
tekhnicheskoy redaktor

[Plastic skin surgery] Kozhnaya plastika. Moskva, Gos.izd-vo
meditsinskoy lit-ry, 1955.224 p. (MLRA 8:10)

1.Chlen-korrespondent AMN SSSR (for Blokhin).
(SKIN GRAFTING)

~~BLOKHIN, N.N.~~; VASIL'YEV, Yu.M.; POGOSYANTS, Ye.Ye.

New case of spontaneous malignant tumor in Macacus rhesus. Vop.
onk. 1 no.2:91-95 '55. (MLRA 8:10)

1. Iz Instituta eksperimental'noy patologii i terapii raka AMN SSSR.
(SARCOMA,
in monkey, case of spontaneous tumor)
(MONKEYS, diseases,
sarcoma, case of spontaneous tumor)

BLOKHIN, Nikolay Nikolayevich, professor; BENTUMOV, O.M.; ISLENT'YEVA,
P.G., tekhnicheskij redaktor.

[Achievements in reconstructive surgery] Uspekhi vosstanovitel'noi
khirurgii. Moskva, Izd-vo "Znanie", 1956. 22 p. (Vsesoiuznoe
obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani.
Ser.3 no.11) (MLRA 9:4)

1. Chlen-korrespondent AMN SSSR (for Blokhin).
(SURGERY, PLASTIC)

BLOKHIN, Nikolay Nikolayevich, professor; BERNUNOV, O.M., redaktor; ..
PURMAN, G.V., tekhnicheskii redaktor

[The problem of fighting cancer; its present status and its prospects]
Problema bor'by protiv raka; sostoianie i perspektivy. Moskva, Isd-vo
"Znanie," 1956. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniu
politicheskikh i nauchnykh znani. Ser. 3, no.42) (MLRA 9:10)

1. Chlen-korrespondent AMN SSSR (for Blokhin)
(CANCER)

BLOKHIN, N. N.

"Carbohydrate Function of the Liver During Development of Radiation Sickness," by Prof N. N. Blokhin, I. S. Lukanova, and L. S. Rotfel'd, Leningrad Order of Red Banner of Labor Scientific Research Institute of Blood Transfusion, Meditinskaya Radiologiya, Vol 1, No 6, Nov/Dec 56, pp 40-46

Changes in the carbohydrate function of the liver and muscles of dogs were studied at various periods following X-irradiation by doses ranging from 250 to 600 r.

In practically all phases of radiation sickness, regardless of dose, disturbances occur in both the glycogen-forming and the glycogen-fixing functions of the liver. This is confirmed by the adrenalin test, and the test using sugar ingestion, sodium lactate, and insulin.

The pseudodiabetic character of the curve on sugar ingestion and the disturbances in sugar utilization by the muscles lead to the assumption that the insulin-forming functions of the pancreas are disturbed. The administration of insulin on damage by radiation sickness leads to normalization of the above disturbances, thus confirming the accuracy of the assumptions.

The injection of insulin combined with glucose is desirable in the therapy of radiation sickness as it corrects the disturbances in the carbohydrate function of the liver. (U)

Sum. 1822

BLOKHIN, N.N. (Moskva, Kotel'nicheskaya naberezhnaya, d. 1/15, kv. 218.)

Peculiarities of skin grafts in tumor therapy [with summary in English]. Vop. onk., 2 no.6:700-705 '56 (MLRA 10:4)

1. Iz Instituta eksperimental'noy patologii i terapii raka (dir.-chl.-korr. AMN SSSR prof. N.N. Blokhin)

(SKIN NEOPLASMS, surg.

face, pedicle flap grafts from forehead)

(FACE, neoplasms

skin, surg., with pedicle flap grafts from forehead)

(SKIN TRANSPLANTATION

pedicle flap grafts from forehead in surg. of skin neoplasms of face)

BLOKHIN, H.N., prof.

~~Immunological~~ Immunological and clinical problems regarding malignant tumors.
Vest.AMN SSSR 11 no.5:3-15 '56. (MIRA 12:10)

1. Chlen-korrespondent AMN SSSR.
(NEOPLASMS,

immunol., chemother. & clin. aspects)

USSR/Human and Animal Physiology (Normal and Pathological) T
The Effect of Physical Factors. Ionizing Irradiations.

Abs Jour : Ref Zhur Biol., No 6, 1959, 27182

Author : Blokhin, N.N., Lukanova, I.S.

Inst : Academy of Sciences USSR

Title : Carbohydrate Function of the Liver in Development of
Radiation Sickness.

Orig Pub : Dokl. AN SSSR, 1956, 111, No 3, 723-726

Abstract : The dogs were subjected to irradiation with a dose of
250-350 r. Expressed changes of carbohydrate metabo-
lism (CM) in loading with glucose (I) were not discove-
red; however, in loading with Na lactate (II), some
signs of its disturbance were noted. More serious sym-
ptoms of CM were observed in dogs irradiated with a dose
of 400-500 r. The test with loading with II induced

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USSR/Human and Animal Physiology (Normal and Pathological) T
The Effect of Physical Factors. Ionizing Irradiations.

Abs Jour : Ref Zhur Biol., No 6, 1959, 27182

after 30 min an increase of content of lactic acid (III) in blood by 200%; normalization of metabolism III took place by the 50th days after irradiation. Serious form of radiation sickness developed in dogs at a dose of 525-600 r. Aside from acute anemia (with leucopenia to 500-100 cells in 1 mm^3), increase in the blood of sugar and III content was noted. A test with loading with I gave a glycemic curve of diabetic type. A sharply-disturbed type of reaction was observed in loading with II. Injection of 1 ml of 1% solution of adrenalin gave a curve with small and prolonged increase of blood sugar level. For normalization of glycogenic function of the liver, connected with insufficient incretory function of pancreas, insulin was applied in radiation sickness of dogs. Its systematic introduction with large doses of I led to considerable normalization of CM. -- L.M. Model'

Card 2/2

BLOKHIN, Nikolay N.

"Chemotherapy of Reticuloses and Leukemia, (Our Work in the Sphere of the Chemotherapy of Malignant Tumors)", paper presented at 7th Int'l Cancer Congress, London, 6-12 July 1958.

*BLOKHIN N.N.*AUTHOR: Blokhin, N.N., Professor

3-58-2-12/33

TITLE: The Character of Practical Training Has Changed (Izmenilsya kharakter praktikuma)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 2, pp 60-61 (USSR)

ABSTRACT: The article contains particulars on some changes introduced in the students practical training at the Medical Institute of Kalinin. Organic and biological chemistry are the leading general subjects at medical vuzes. The existing system of conducting practical training in organic chemistry (at the 1st course) and biological chemistry (2nd course) had to be revised both from a methodological and methodical point of view. The chair developed 3 exercises in organic synthesis which contained all the basic elements of chemical research. The solution of each of the problems requires 7-8 hours of continuous laboratory work.

The course in biological chemistry was reduced from 82 to 58 hours. Instead of 2 and 4-hour lessons, 6 and 8-hour lessons were introduced. Students of the 3rd semester determine the content of general and residual nitrogen by the Kjeldahl method, gastric juice with qualitative reactions, the properties and quantity of ferments present, etc. In the

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The Character of Practical Training Has Changed

3-58-2-12/33

4th semester the presence of sugar in a dog's blood is studied both in a normal state and after introducing glucose, insulin or adrenaline.

The solution of practical problems was taken up in the examination tickets as a separate 4th question, and this increased the students' responsibility in practical training.

ASSOCIATION: Kalininskiy meditsinskiy institut (Medical Institute, Kalinin)

AVAILABLE: Library of Congress

Card 2/2

DAVYDOVSKIY, I.V., prof. (Moskva), otv.red.; BLOKHIN, N.N., prof. (Moskva), red.; VASIL'YEV, Yu.M., kand.med.nauk, red.; ZBARSKIY, I.B., prof. (Moskva), red.; ZIL'BER, L.A., prof. (Moskva), red.; KOSYAKOV, P.N., prof., red.; LARIONOV, L.F., prof. (Moskva), red.; SAVITSKIY, A.I., prof. (Moskva), red.; SEREBROV, A.I., prof., red.; CHAKLIN, A.V., kand.med.nauk (Leningrad), red.; SHABAD, L.M., prof. (Leningrad), red.; AVERBAKH, M.M., red.; ROMANOVA, Z.A., tekhn.red.

[Malignant neoplasms; transactions of the Tenth Session of the General Assembly of the Academy of Medical Sciences of the U.S.S.R.]
Zlokachestvennye novoobrazovaniya; trudy X sessii obshchego sobraniya Akademii meditsinskikh nauk SSSR. Otvet.red. I.V.Davydovskii. Red.kollegiya: N.N.Blokhin i dr. Moskva, Gos.izd-vo med.lit-ry, 1959. 262 p. (MIRA 14:1)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 10. sessiya, Moscow, 1956. 2. Deystvitel'nyye chleny AMN SSSR (for Davydovskiy, Zil'ber, Serebrov). 3. Chleny-korrespondenty AMN SSSR (for Blokhin, Larionov, Savitskiy, Shabad).

(CANCER)

BLOKHIN, N.N. (Moskva, Kotel'nicheskaya nab., d. 1/15, kv. 218)

Experience with chemotherapy for malignant tumors. Vop.onk. 5 no.3:
299-305 '59. (MIRA 12:12)

1. Institute of Experimental Pathology and Therapy of Cancer, Moscow.
(CYTOTOXIC DRUGS, ther. use,
case reports (Rus))

BLOKHIN, N.N.

NESTEROV, A.I. (Moskva); TUSHINSKIY, M.D. (Leningrad); GOREV, N.N. (Kiyev);
 DOLGO-SABUROV, B.A. (Leningrad); ZAKUSOV, V.V. (Moskva); MUROMTSEV, S.H.
 (Moskva); CHUMAKOV, M.P. (Moskva); ZHDANOV, V.M., prof. (Moskva);
 NEGOVSKIY, V.A., prof. (Moskva); BIRYUKOV, D.A. (Leningrad);
 LITVINOV, N.N., prof. (Moskva); SOKOLOVA-PONOMAREVA, O.D. (Moskva);
 KUPALOV, P.S. (Leningrad); BARKIS, G.A. (Moskva); KOSYAKOV, P.N.,
 prof. (Moskva); SHMELEV, N.A. (Moskva); BUSALOV, A.A., prof.
 (Moskva); MOLCHANOVA, O.P. (Moskva); STRASHUN, I.D.; BLOKHIN, N.N.
 (Moskva); PREEBRAZHENSKIY, B.S. (Moskva); VISHNEVSKIY, A.A. (Moskva);
 CHERNIGOVSKIY, V.N. (Moskva); PAVLOVSKIY, Ye.N., akademik (Leningrad);
 MYASHNIKOV, A.L. (Moskva); VINOGRADOV, V.N. (Moskva); MAYEVSKIY, V.I.:
 DAVYDOVSKIY, I.V. (Moskva); IOFFE, V.I. (Moskva); KURASHOV, S.V.:
 ANOKHIN, P.K. (Moskva); BOGDANOV, I.D. (Kiyev); ZIL'BER, L.A.
 (Moskva); BRONOVITSKIY, A.Yu.; CHEBOTAREV, D.F., prof.

Debate on the address by Professor V.V. Parin, academician
 secretary of the Academy of Medical Sciences of the U.S.S.R.;
 abridged comments by members of the Academy of Medicine and
 the directors of institutes. Vest.AMN SSSR 14 no.8:19-31
 '59. (MIRA 12:11)

1. Deystvitel'nyye chleny AMN SSSR (for Nesterov, Tushinskiy,
 Gorev, Zakusov, Kupalov, Strashun, Preobrazhenskiy, Vishnevskiy,
 Chernigovskiy, Myasnikov, Vinogradov, Anokhin, Zil'ber).

(Continued on next card)

NESTEROV, A.I.---(continued) Card 2.

2. Chleny-korrespondenty AMN SSSR (for Dolgo-Saburov, Chumakov, Zhdanov, Biryukov, Sokolova-Ponomareva, Batkis, Shmelev, Molchanova, Blokhin, Ioffe, Bogdanov). 3. Direktor Instituta gerontologii AMN SSSR (for Gorev). 4. Direktor Instituta farmakologii i khimioterapii AMN SSSR (for Zakusov). 5. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (VASKhNIL); direktor Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR (for Murontsev). 6. Direktor Instituta po izucheniyu poliomiyalita AMN SSSR (for Chumakov). 7. Direktor Instituta eksperimental'noy meditsiny AMN SSSR (for Biryukov). 8. Direktor Instituta obshchey i kommunal'noy gigiyeny AMN SSSR (for Litvinov). 9. Direktor Instituta pediatrii AMN SSSR (for Sokolova-Ponomareva). 10. Direktor Instituta virusologii AMN SSSR (for Kosyakov). 11. Direktor Instituta tuberkuleza AMN SSSR (Shmelev). 12. Direktor Instituta grudnoy khirurgii AMN SSSR (for Buzalov). 13. Direktor Instituta pitaniya AMN SSSR (for Molchanova). 14. Direktor Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (for Blokhin). 15. Direktor Instituta khirurgii AMN SSSR (for Vishnevskiy).

NESTEROV, A.I.--- (continued) Card 3.

16. Direktor Instituta fiziologii AMN SSSR (for Chernigovskiy).
 17. Direktor Instituta terapii AMN SSSR (for Myasnikov).
 18. Direktor Gosudarstvennogo izdatel'stva meditsinskoy literatury (for Mayevskiy).
 19. Vitse-prezident AMN SSSR (for Davydovskiy).
 20. Ministr zdavookhraneniya SSSR (for Kurashov).
 21. Direktor Instituta infektsionnykh bolezney AMN SSSR (for Bogdanov).
 22. Chlen-korrespondent AN BSSR: predsedatel' Uchenogo meditsinskogo soveta Ministerstva zdavookhraneniya BSSR (for Bronovitskiy).
 23. Predsedatel' Uchenogo meditsinskogo soveta Ministerstva zdavookhraneniya USSR (for Chebotarev).
- (MEDICINE)

BLOKHIN, N. N., (Prof.) -- Moscow

"Chemo-Hormonotherapeutic Methods in Treatment of
Bone Tumors."

Report submitted for the 27th Congress of Surgeons of the USSR,
Moscow, 23-28 May 1960.

BLOKHIN, N.N., prof.

Cancer is an international problem. Zdorov'ie 6 no.5:3 My '60.
(MIRA 13:6)

1. Prezident AMN SSSR.

(CANCER)

BLOKHIN, N.N.

Surgery. Znan.sila 35 no.5:16 My '60.

(MIRA 13:7)

1. Prezident AMN SSSR, direktor Instituta eksperimental'noy i klinicheskoy onkologii.

(CANCER)

(OPERATIONS, SURGICAL)

BLOKHIN, Nikolay Nikolayevich; PARIN, Vasiliv Vasil'yevich; GAZENKO, Oleg Georgiyevich, kand.med.nauk; VERNOV, Sergey Nikolayevich; STAROSTENKOVA, M.M., otv.red.; SHISHINA, Yu.G., red.; NAZAROVA, A.S., tekhn.red.

[Medicine and cosmic flight] Meditsina i kosmicheskie polety; sbornik. Moskva, Izd-vo "Znanie," 1961. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani. Ser.8, Biologiya i meditsina, no.9)

(MIRA 14:6)

1. Prezident Akademii meditsinskikh nauk SSSR (for Blokhin).
2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Parin).
3. Chlen-korrespondent AN SSSR (for Vernov).

(SPACE MEDICINE)

BLOKHIN, N.N., SYROMYATNIKOVA N.V. (USSR)

"The Absorption of Glucose into the Portal Vein System and its
Exchange in the Limb Muscles in the Primary Forms of Bonejoint
Tuberculosis."

Report presented at the 5th Int'l Biochemistry Congress,
Moscow, 10-16 Aug. 1961

BAKULEV, A.N., akad.; BLOKHIN, N.N.; BOGUSH, L.K.; VELIKORETSKIY, A.N., prof.; VOZNESENSKIY, V.P., prof., zasl. deyatel' nauki [deceased]; GULYAYEV, A.V., prof.; DANILOV, I.V., prof.; DUBOV, M.D., doktor med. nauk; KAZANSKIY, V.I., prof.; LIMBERG, A.A.; LINBERG, B.E., zasl. deyatel' nauki, prof.; MEDVEDEV, I.A., dots.; MESHALKIN, Ye.N., prof.; MIRONOVICH, N.I., doktor med. nauk; NIKOLAYEV, O.V., prof.; NIFONTOV, B.V., doktor med. nauk; PETROVSKIY, B.V.; PRIOROV, N.N. [deceased]; RIKHTEE, G.A., prof.; ROVNOV, A.S., prof.; RUFANOV, I.G.; STRUCHKOV, V.I.; SHRAYBER, M.I., doktor med. nauk; GORELIK, S.L., dots., red.; YELANSKIY, N.N., red.; SALISHCHEV, V.E., zasl. deyatel' nauki, prof. [deceased]; RYBUSHKIN, I.N., red.; BUL'DYAYEV, N.A., tekhn. red.

[Surgeon's reference book in two volumes] Spravochnik khirurga v dvukh tomakh. Pod obshchei red. A.N. Velikoretskogo i dr. Moskva, Medgiz. Vol. 1. 1961. 564 p. (MIRA 14:12)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrovskiy, Priorov, Rufanov, Limberg). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Bogush, Struchkov, Yelanskiy). (SURGERY)

BLOKHIN, N.N., prof.

Eminent surgeon. Zdorov'ie 7 no.3:8 Mr '61.

(MIRA 14:3)

1. Prezident AMN SSSR.

(BAKULEV, ALEKSANDR NIKOLAEVICH, 1890-)

BLOKHIN, N.N., prof.

Communism - that is health for the people. Zdorov'ye 7 no.10:
1-2 0 '61. (MIRA 14:10)

1. Prezident Akademii meditsinskikh nauk SSSR.
(PUBLIC HEALTH)

BLOKHIN, N. N. (Moskva)

Soviet medical science at the 22d Congress of the CPSU. Klin. med.
no.11:5-13 '61. (MIRA 14:12)

(MEDICINE)

BLOKHIN, N.N., prof.

Medical sciences in the service of public health. Vest. AMN SSSR
16 no.1:3-7 '61. (MIRA 14:3)

1. Prezident AMN SSSR.
(PUBLIC HEALTH)

BLOKHIN, N.N.

Some results of and prospects for the development of Soviet medical science. Vest. AMN SSSR 16 no.9:7-25 '61. (MIRA 14:12)

1. Prezident AMN SSSR.
(MEDICINE)

BLOKHIN, N.N.

Eliminate diseases, retard aging. Tekh.mol. 29 no.9:25 '61.
(MIRA 14:10)

1. Prezident Akademii meditsinskikh nauk SSSR.
(Medical research)

BLOKHIN, N. N., prof.

International forum of scientists. Zdorov'ie 8 no.7:3-4 J1 '62.
(MIRA 15:7)

1. Prezident Akademii meditsinskikh nauk SSSR.

(CANCER—CONGRESSES)

BLCKHIN, N.N.; KUDIMOVA, E.G.; PEREVODCHIKOVA, N.I.; SHABAD, L.M.; VASILIEV, Y.M.

A short outline of the oncological work in the U.S.S.R. Neoplasma 9
no.3:355-368 '62.

1. Institute of Experimental and Clinical Oncology of the Academy of
Medical Sciences of U.S.S.R., Moscow.
(NEOPLASMS)

BLOKHIN, N.N.

Concluding remarks of the president of the Academy of Medical
Sciences of the U.S.S.R. Vest.AMN SSSR 17 no.5:136-141 '62.
(MIRA 15:10)

1. Prezident Akademii meditsinskikh nauk SSSR.
(MEDICINE)

BLOKHIN, N.N.

International Anticancer Congress and Soviet oncology. Vest.AMN
SSSR 17 no.6:3-6 '62. (MIRA 15:8)

1. Prezident Akademii meditsinskikh nauk SSSR.
(ONCOLOGY) (CANCER—CONGRESSES)

BEKBERG, N.N.; AKHMEDOV, B.P.

Gastrectomy with direct esophagoduodenal anastomosis in cancer of
the stomach. Vest.AMN SSSR 17 no.6:49-53 '62. (MIRA 15:8)

1. Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.
(STOMACH--SURGERY) (STOMACH--CANCER)

BLOKHIN, N.N., prof.

Attack on cancer. Priroda 51 no.9:32-36 S '62. (MIRA 15 :9)

1. Prezident AMN SSSR.
(CANCER)

BLOKHIN, N.N.; SYROMYATNIKOVA, N.V.

Significance of blood sugar curves in the diagnosis of initial forms of osteoarticular tuberculosis. Probl. tuberk. 41 no.4: 47-50 '63 (MIRA 17:2)

1. Iz biokhimeskoy laboratorii (zav. - prof. N.N.Blokhin) Leningradskogo nauchno-issledovatel'skogo instituta khirurgicheskogo tuberkuleza (dir. - prof. D.K.Khokhlov, nauchnyy rukovoditel' deystvitel'nyy chlen AMN SSSR prof. P.G. Kornev).

BLOKHIN, Nikolay Nikolayevich; VORONIN, B.S., red.

[Science against cancer] Nauka protiv raka. Moskva,
Izd-vo "Znanie," 1964. 31 p. (Novaya zhizn', nauka,
tekhnika. VIII Seriya: Biologiya i meditsina, no.20)
(MIRA 17:10)
1. Deystvitel'nyy chlen AN SSSR (Blokhin).

KELER, V.R., *correspondent*, red.; MILLIONSHCHIKOV, M.D., akademik, red.;
BLOKHIN, N.N., red.; BLOKHINTSEV, D.I., red.; GNEDENKO,
B.V., akademik, red.; ZAYCHIKOV, V.N., red.; KELDYSH, M.V.,
akademik, red.; KIRILLIN, V.A., akademik, red.; KORTI'NOV,
V.V., red.; MONIN, Andrey Sergeyevich, prof., doktor fiz.-
matem. nauk, red. (1921); NESMEYANOV, A.N., akademik, red.;
PARIN, V.V., red.; REBINDER, P.A., akademik, red.; SEMENOV,
N.N., akademik, red.; FOK, V.A., akademik, red.; FRANTSOV,
G.P., akademik, red.; ENGEL'GARDT, V.A., akademik, red.;
KREMNEVA, G., red.; BALASHOVA, A., red.; BERG, A.I., akademik, red.

[Science and mankind, 1964; simple and precise information
about the principal developments in world science] Nauka i
chelovechestvo, 1964.; dostupno i tochno o glavnom v miro-
voi nauke. Moskva, Izd-vo "Znanie," 1964. 424 p.

(MIRA 18:1)

1. Deystvitel'nyy chlen AMN SSSR (for Blokhin, Parin); 2. Chlen-
korrespondent AN SSSR (for Blokhintsev). 3. Akademiya nauk
SSSR Ukr.SSR (for Gnedenko).

ZHALKO-TITARENKO, V.F.; BLOKHIN, N.N., prof., nauchnyy rukovoditel' raboty

Technique of analyzing blood protein fractions by paper electrophoresis. Lab. delo 10 no.4:218-219 '64. (MIRA 17:5)

1. Makoshinskiy detskiy kostno-tuberkuleznyy sanatoriy (glavnyy vrach V.F.Zhalco-Titarenko). 2. Leningradskiy nauchno-issledovatel'skiy institut khirurgicheskogo tuberkuleza (for Blokhin).

BLOKHIN, N.N., prof.; ZVANTSEVA, V.A., kand. med. nauk; MUKHINA,
M.P., kand. med. nauk; SYROMYATNIKOVA, N.V., kand. med. nauk

Some physicochemical, biochemical and cytological changes in
the synovial fluid of tuberculous synovitis patients. Probl.
tub. 42 no.1:64-68 '64. (MIRA 17:8)

1. Leningradskiy institut khirurgicheskogo tuberkuleza (dir. -
prof. D.K. Khokhlov, nauchnyy rukovoditel' - deystvitel'nyy
chlen AMN SSSR prof. P.G. Kornev).

BLOKHIN, N.N.; VASIL'YEV, P.V., kand. biol. nauk; LEBEDINSKIY, A.V., prof. [deceased]; YAZDOVSKIY, V.I., doktor med. nauk, prof.; CHERNOV, A.G.; NIKOLAYEV, V.R., red.

[Man in a space ship. Eighth discussion. Participants in the discussion: N.N.Blokhin and others] Chelovek v kosmicheskom korable. Beseda vos'maia. V besede uchastvuiut: N.N.Blokhin i dr. Moskva, Znanie, 1965. 30 p. (Novoe v zhizni, nauke, tekhnike. VIII seriia: Biologiya i meditsina, no.7) (MIRA 18:2)

1. Deystvitel'nyy chlen, prezident AMN SSSR (for Blokhin).
2. Deystvitel'nyy chlen AMN SSSR (for Lebedinskiy).

L 24211-65 EPT(m)/EPP(o)/EPP(n)-2/EPR Pr-1/Ps-1/Pa-1 IM

ACCESSION NR: AP5001266

S/0089/64/017/006/0448/0452

AUTHOR: Sinev, N. M.; Krasin, A. K.; Bychkov, I. F.; Blokhin, O. I.; Broder, D. L.; Gabrusev, V. N.; Dudnikov, Yu. V.; Zhil'tsov, V. A.; Koptev, M. A.; Kotov, A. P.; Lantsov, M. N.; Lisochkin, G. A.; Merzlikin, C. A.; Morozov, I. G.; Komarov, A. Ya. (deceased); Orekhov, Yu. I.; Sergeyev, Yu. A.; Skvitsarev, P. N.; Ushakov, G. N.; Fedorov, N. V.; Chernyy, V. Ya.; Shmelev, V. M. 42 B

TITLE: Small-size atomic electric power installation TES-3

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 448-452 19

TOPIC TAGS: small atomic power installation, portable atomic power installation, nuclear reactor, electric power generation, TES-3 reactor

ABSTRACT: The paper is a summary of the SSSR report #310 at the Third International Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It describes a movable small-size atomic electric power installation with the water cooled and moderated TES-3 reactor (under 10,000 kw). It consists of four

Card 1/2

L 24211-55

ACCESSION NR: AP5001258

blocks each of which was assembled at the manufacturing plant, and which are placed on four self-propelled flatcars on caterpillar tracks. No housing is required for the installation; the only local preparation needed is the radiation protection. The results with a demonstration model show a satisfactory agreement between the theoretically expected and actually obtained parameters of the installation. Orig. art. has: 4 figures

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 000

OTHER: 000

Card 2/2

GUN, L.; KRSEMINSKIY, V.; BLOKHIN, P.; DUNDUK, I., kand.tekhn.nauk; TULER, A.

Shaft recirculation grain dryer at the Kochnevo Grain Receiving Station. Muk.-elev. prom. 29 no.3:6-8 Mr '63. (MIRA 16:9)

1. Glavnyy inzh. Novosibirskogo upravleniya khleboproduktov (for Gun). 2. Direktor Sibir'skogo filiala Vsesoyuznogo nauchno-isledovatel'skogo instituta zerna i produktov yego pererabotki (for Krsheminskiy).

BLOKHIN, P.

20362 BLOKHIN, P. Arkhitektura zhilykh domov zavodskogo izgotovleniya.
Arkhitektura i stroit-vo, 1949, No. 5, s. 11-14

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949

CHRISOV, A.A.; BLOKHIN, P.A.; SHIROKOV, A.S.; SHNEYERSON, M.B.

Methoda for the combined geophysical study of oil- and gas-bearing structures in platform provinces. Sov.geol. 5 no.11:15-35
N '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
geofizicheskikh metodov razvedki.
(Prospecting—Geophysical methods)

SHIRYAYEV, I. Ye.; BLOKHIN, P. A.

Some geological results of regional geophysical studies carried out in Central Asia and the Russian Platform. Sov. geol. 5 no.10:88-99 0 '62. (MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki.

(Russian Platform--Geology)
(Soviet Central Asia--Geology)

BLOKHIN, P.A.; GODIN, Yu.N.; YEFIMKINA, S.S.; SHURSHEVA, T.I.

Searching for reefy massifs. Prikl. geofiz. no. 23:10-22 '60.
(MIRA 14:13)

(Bashkiria--Seismic prospecting)

BLOKHIN, P.

Fifteenth anniversary of the School of Grain Elevator Engineering in
Achinsk. Muk. elev. prom. 24 no. 6:31 Je '58. (MIRA 11:7)

1. Direktor Achinskogo elevatornogo tekhnikuma.
(Achinsk--Technical education) (Grain elevators)

BLOKHIN, P.N., arkhitekto; MARCHENKO, V.T., inzh.; HUDKOVSKIY, Ye.N., inzh.

Housing construction and management in Belgium and the Netherlands.
Gor.khoz, Mosk. 31 no.5:30-35 My '57. (MIRA 12:3)
(Belgium--Apartment houses) (Netherlands--Apartment houses)

SOFINSKIY, I.D.; BLOKHIN, P.N.; GEL'BERG, L.A.; ZHDANOV, P.M.; IVASHCHENKO, I.P.; LEVINA, G.P.; NAUMOVA, N.A.; SMIRNOV, N.S.; ARONOVA, R.I.; NIKOLAYEV, N.A.; SHERENTSI, A.A.; KOVALEVSKIY, I.I.; LOBACHEV, P.V.; SLADKOV, S.P.; DZIGAN, A.V.; FORAPONOV, N.K. Primarni uchastnye: ARGANSKIY, A.S.; ASMUS, Ye.N.; BIZHALOVA, Ye.M.; BOGATYKH, Ya.D.; BURENIN, V.A.; GOL'DING, N.P.; DOMSHLAK, I.P.; MOSKALEV, S.A.; RABINOVICH, S.G.; ROGOVSKIY, L.V.; KHOKHLOVA, L.P.; SHESTOPAL, N.M.. RUBANENKO, B.R., glavnyy red.; GALKIN, Ya.G., zamest.glavnogo red.; SAPRYKIN, V.A., red.; SHCHEPETOV, V.M., red.; NOVITCHENKO, K.M., nauchnyy red.; VILKOV, G.N., inzh., red.isd-va; TYAPKIN, B.G., red. izd-va; EL'KINA, E.M., tekhn.red.

[Building your own home] Spravochnik individual'nogo zaostroishchika. Moskva, Gos.isd-vo lit-ry po stroit.materialam, 1958. 442 p.
(MIRA 12:2)

1. Akademiya stroitel'stva i arkhitektury SSSR.
(Building)

ALABYAN, K.S. [deceased]; BLOKHIN, P.N.; BOTVINKO, M.Ye.; DEVIYATKOV, G.V.; DMITRIYEV, A.D.; YERSHOV, P.N.; ZAYTSEV, A.G.; KIBIREV, S.P.; KOSTYUKOVSKIY, M.G.; KUZNETSOV, B.T.; L'VOV, G.N.; MOGIL'NIYY, A.I.; ORLOV, G.M., OVSYANNIKOV, K.L.; PROMYSLOV, V.P.; SMIRNOV, N.N.; SKACHKOV, I.A.; SOLOFNERENKO, N.A.; SUSNIKOV, A.A.; CHAGIN, D.A.; KUCHERENKO, V.A., obshchiy red.; GRISHMANOV, I.A., obshchiy red.; SVETLICHNIYY, V.I., obshchiy red.; RUBANENKO, B.R., obshchiy red.; BARSKOV, I.M., red.; UDOD, V.Ya., red.isd-va; YUDINA, L.A., red.isd-va; GOLOVKINA, A.A., tekhn. red.

[Building practices in foreign countries; Northern Europe and German Federal Republic] Opyt stroitel'stva za rubezhom; v stranakh Severnoi Evropy i FRG. Po materialam otchetov delegatsii sovetskikh spetsialistov-stroitelei. Moskva, Gos.isd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1959. 598 p. (MIRA 12:12)

1. Predsedatel' Gosstroya SSSR (for Kucherenko). 2. Zamestitel' predsedatelya Gosstroya SSSR (for Svetlichnyy).
(Europe, Western--Building)

~~BLOKHIN~~ Pavel Pavlyayich, inzhener; VORONTSOV, O.S., kandidat tekhnicheskikh nauk, redaktor; VISOTSKAYA, R.S., redaktor; GOLUBEKOVA, L.A., tekhnicheskii redaktor

[approximate calculations and problems in mechanical conveying equipment] Primernye raschety i zadachi po mekhanicheskomu transportnomu oborudovaniyu. Pod red. O.S.Vorontsova. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam mukomol'no-krupianoi, kombikormovoi promyshl. i eskvatorno-skladskogo khoziaistva Khleboizdat, 1956. 77 p. (MLRA 10:1)
(Conveying machinery)

BLOKHIN, S. I.

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.;
 BIRYUKOV, S.M.; ~~BLOKHIN, S.I.~~; BOBOVOY, G.A.; BULEV, M.Z.; BURAKOV,
 N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;
 GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT,
 Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODS, E.G.;
 GORBACHEV, V.N.; GRZHB, B.V.; GHEKULOV, L.F., kand. s.-kh. nauk;
 GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,
 Yu.D.; DOBROKHOTOV, D.D.; DUBININ, E.G.; DUNDUKOV, M.D.; ZHOLIK,
 A.P.; ZENKOVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;
 KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.;
 KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;
 KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;
 LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSEVICH, K.F.; MEL'NICHENKO,
 K.I.; MENDEL'EVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;
 MUSIYEVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.;
 OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,
 G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMZOV, N.P.;
 ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.;
 RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;
 SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,
 Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRISOVA,
 Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;
 TSISHEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHA, A.A.; CHUSOVITIN,
 N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,
 I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,
 (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUFIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUMER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRZHKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KOBABLIHOV, P.H.,
tekhn. red.; GEMKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.
red.

[Volga-Don; technical account of the construction of the V.I. Lenin
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati
tomakh. Moskva, Gos. energ. izd-vo, Vol.1. [General structural
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-
struction. Specialized operations in hydraulic engineering] Orga-
nizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.
(Continued on next card)

ANDON'YEV, V.I.... (continued) Card 4.

Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-korrespondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin, Razin).

(Volga Don Canal--Hydraulic engineering)

S/192/62/003/002/002/004
D267/D301

Vaynshteyn, E., Staryy, I.B., Blokhin, S.M.
and Paderno, Yu.B.

AUTHORS:

The X-ray absorption spectra L_{II} and L_{III} of
the rare-earth elements in oxides and hexa-
borides. I. Absorption spectra of barium,
lanthanum and cerium

TITLE:

Zhurnal strukturnoy khimii, v. 3, no. 2, 1962,
200 - 207

PERIODICAL:

Owing to the remarkable properties of the borides
of rare-earth elements (in particular their high thermal-emission
characteristics) the authors undertook a systematical investigation
of the X-ray emission spectra and of the emission of metal atoms in
the hexaborides of all rare-earth elements. The respective oxides
(and the Ba compounds) were also included. The hexaborides, obtained

The X-ray absorption spectra ...

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D267/D301

by reducing the respective very pure oxides with B or boron carbide, were found to contain only the hexaboride phase. The absorption spectra of metals in oxides and hexaborides were obtained with the aid of a focusing tube spectrographs in the second order of reflection from the plane (1011) of a bent quartz crystal. A very strong resemblance was found to exist for the L_{II} and L_{III} absorption edges between the oxides and the hexaborides in the case of Ba and La, and there even exists an analogy between Ba and La. On the contrary, the curves for CeO₂ differ strongly from those for CeB₆, and from the curves for Ba and La compounds. The fine structure of the L absorption spectra of Ba, La and Ce in oxide and hexaborides can be interpreted quite satisfactorily as a result of superposition of continuous absorption and of a group of selective lines which arise mainly due to the transition of the 2p-electrons of metals on the d-symmetry energy levels. There are 8 figures. The most important English-language references read as follows: B. Post, D. Moskowitz, F. Glaser, J. Amer. chem. Soc., 81, 1800, 1956; H. Longuet-Higgins, M. Roberts, Proc. Roy. Soc., 224, 336, 1954.

Card 2/3

The X-ray absorption spectra ...

S/192/62/003/002/002/004
D267/D301

ASSOCIATION:

Institut neorganicheskoy khimii SO AN SSSR,
Institut metallokeramiki i spetsial'nykh
splavov AN USSR, Odesskiy pedagogicheskiy
institut im. K.D. Ushinskogo (Institute of
Inorganic Chemistry, Siberian Branch, AS USSR;
Institute of Powder Metallurgy and Special
Alloys, AS UkrSSR; Odessa Pedagogical Institute
im. K.D. Ushinskiy)

SUBMITTED:

July 24, 1961

Card 3/3

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32818

18.1215 4016, 1454, 1418

S/O20/62/142/001/016/021
B103/B110

AUTHORS: Vaynshteyn, E. Ye., Elokhin, S. M., and Kripyakevich, P. I.

TITLE: X-ray spectroscopic study of titanium beryllides with a high beryllium content

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 1, 1962, 85-87

TEXT: Following Ref. 1 (E. Ye. Vaynshteyn et al., DAN, 135, 642 (1960)), the authors investigated: (a) Phases of the system Ti-Be with a still higher Be content (alloys containing 88, 90, and 93 atom% of Be). (b) The data of Ref. 1 were checked and defined by increased resolving power of the spectroscopic equipment (APC (DRS) vacuum longwave spectrograph produced at the experimental workshops of the Rostovskiy gosudarstvennyy universitet (Rostov State University)). Alloys were produced by Ye. I. Gladyshevskiy in corundum crucibles in the Tamman furnace in an argon atmosphere. Both emission and absorption spectra were taken. The reflecting (10 $\bar{1}$ 0) surface of a bent quartz crystal was used. The method of inclined planes was applied to magnify resolution up to 10,000 times. Emission spectra were taken with an aluminum anode. A tantalum anode was

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X-ray spectroscopic study ...

used for the absorption spectra. The experimental form and the width of the K_{α_1} line on Ge was investigated to examine dispersion of the function of distortion caused by the parameters of the apparatus, and to determine its half-width. It was found that the two first samples of the alloys had the same trigonal structure: $a = 7.40 \text{ \AA}$, $c = 10.84 \text{ \AA}$, and $c/a = 1.465$. This lattice is equal to that of $\text{Th}_2\text{Zn}_{17}$ (space group $R\bar{3}m$, $Z = 3$); hence, it is concluded that $\text{Ti}_2\text{Be}_{17}$ is produced (in accordance with Ref. 4, see below). It is also possible, however, that solid solutions of TiBe_{12} are involved. These two structures, being very similar to each other (as well as TiBe_2), belong to the class of densest packages of unequally large atoms with high coordination numbers. The line broadening is 0.39 eV, i.e., $\sim 28\%$ of the natural half-width of the line. The form of the experimental spectra and the broadening were corrected according to I. Ya. Nikiforov (Izv. AN SSSR, ser. fiz., 21, 1362 (1957)). It was found that the shape and the relative placement of the K absorption edges and of the last emission lines in the titanium spectra of Ti-Be phases with varying Be content were almost

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X-ray spectroscopic study ...

identical. The alloys investigated are very similar with respect to atomic interaction, but differ considerably from beryllides with a lower Be content (Figs. 1, 2). This variation is a result of transitions of the K electron into the portion of the hybridized energy band of the alloy close to the 3d energy levels of the main absorption edge. It follows from the spectra investigated: (1) a considerable weakening of the superposition degree of energy bands of valence electrons of the alloy components in Ti_2Be_{17} ; (2) a weakening of the hybridization degree of the wave functions in the range of the 3d4sp band of the transition metal; and (3) a considerable increase in significance of the role of Be interaction. This leads to a noticeable variation of the effective difference of electronegativities between the two alloy components. Its value can be estimated on the basis of X-ray spectrum data by the relation between the difference (Δx) of the electronegativities of the components of a binary compound and the energy distance (ΔE) ($K_{\beta}^* - K_{\beta_5}$) in the X-ray spectrum of the transition metal. Since this value is 4.8 eV, the effective electronegativity of Be must differ in the intermetallic compound from that of Ti by approximately 0.6 eV instead of

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B103/2110

X-ray spectroscopic study ...

being practically equal. There are 2 figures and 10 references: 8 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: Ref. 2: R. F. Raeuchle, R. E. Rundle, Acta Crystallogr., 5, 85 (1952); Ref. 4: P. M. Paine, J. A. Carrabine, Acta Crystallogr., 13, 680 (1960). X

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry of the Siberian Branch of the Academy of Sciences USSR). L'vovskiy gosudarstvennyy universitet im. I. Franko (L'vov State University imeni I. Franko)

PRESENTED: July 1, 1961, by A. P. Vinogradov, Academician

SUBMITTED: July 8, 1961

Fig. 1. X-ray K absorption spectra and last emission lines of Ti in $TiBe_2$ and Ti_2Be_{17} . Legend: Abscissa: ν .

Fig. 2. X-ray K absorption spectra of Ti in $TiBe_2$ and Ti_2Be_{17} after Card 4/5

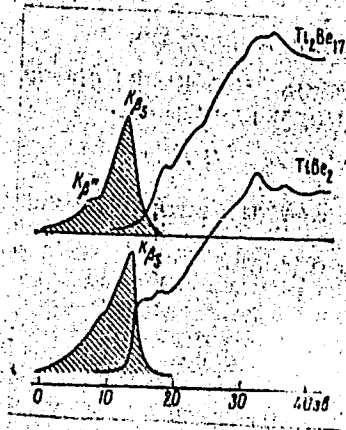
32818

S/020/62/142/001/016/021
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X-ray spectroscopic study ...

correction for distortions due to parameters of the apparatus and for the width of the K level of Ti which was assumed to be 0.74 ev.
Legend: Abscissa: ev.

Fig. 1



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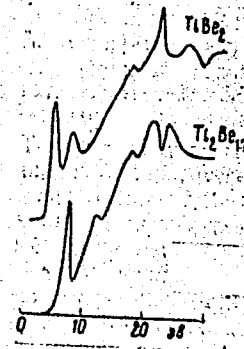


Fig. 2

VAYNSHTEYN, E.Ye.; BLOKHIN, S.M.; KRIPYAKEVICH, P.I.

X-ray spectroscopic study of titanium beryllides rich in beryllium. Dokl. AN SSSR 142 no.1:85-87 Ja '62. (MIRA 14:12)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR i L'vovskiy gosudarstvennyy universitet im. I.Franko. Predstavleno akademikom A.P. Vinogradovym.
(Titanium--Beryllium alloys)
(X-ray spectroscopy)

I 12445-65 EWA(1)/EWT(1)/EWT(m)/EPF(n)-2/EPR/EEC(t)/EPA(bb)-2/EWP(b)/EWP(e) Ps-4
Pu-4 AFWL/APGC(b)/BSD/ASD(a)-5/AS(mp)-2/ESD(gs)/ESD(t) JD/JG/AT/RH
ACCESSION NR: AP4046596 S/0181,64/006/010/2909/2912

AUTHOR: Vaynshteyn, B. Ye.; Blokhin, S. M.; Paderno, Yu. B.

TITLE: X-ray spectral investigation of samarium hexaboride 27 B

SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 2909-2912

TOPIC TAGS: samarium compound, x ray spectrum, absorption spectrum, europium compound, ytterbium compound, fine structure

ABSTRACT: The samarium hexaboride was obtained by a vacuum-thermal method (G. V. Samsonov and Yu. B. Paderno, Boridy* redkozemel'ny*kh metallov [Borides of Rare Earth Metals], AN USSR, Kiev, 1964).
FOR COMPARISON AND TO FACILITATE THE INTERPRETATION OF THE DATA, x-ray L_{III} absorption spectra were obtained for europium, ytterbium oxide, and hexaboride, using the same experimental conditions. The absorption spectra were obtained with a DRS-3 long-wave x-ray spectrograph in the first order of reflection from the (1340) plane

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L 12445-65

ACCESSION NR: AP4046596

of a quartz crystal. The spectra were recorded photographically. The $L_{\alpha 2}$ and $L_{\alpha 3}$ lines of europium were used as the comparison lines. The structure of the L_{III} absorption edges of samarium in SmB_6 was investigated in the interval from -120 to $+400C$. An analysis of the fine structure indicates that the samarium atoms exist in SmB_6 in two different valence states, which are statistically distributed in crystallographically equivalent positions of the lattice of the compound. The absorption spectrum of samarium in SmB_6 has several features distinguishing it from hexaborides of other rare-earth metals. Chief among these features is the presence of an additional absorption band whose maximum is shifted by about 7 eV towards the longer wavelengths compared with the principal maximum. This hypothesis is confirmed by plotting the theoretical absorption curves corresponding to the different relative contents of the divalent and trivalent samarium and a corresponding analysis. It is estimated that the divalent samarium may amount to $\sim(35 \pm 5)\%$ of the total number of samarium atoms. Orig. art. has: 3 figures.

Card 2/3

L 12445-65
ACCESSION NR: AP404F596

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR (Institute of Inorganic Chemistry, SO AN SSSK); Institut spetspiavov i metallokeramiki AN UkrSSR (Institute of Special Alloys and Metal Ceramics, AN UkrSSR) 2

SUBMITTED: 17Feb64

ATD PRESS: 3121

ENCL: 00

SUB CODE: SS, IC

NO REF SOV: 008

OTHER: 008

Card 3/3

VAYNSHTEYN, E.Ye.; BLOKHIN, S.M.; PADERNO, Yu.B.

X-ray L-spectra of lanthanum absorption in tetra- and hexaborides
with defect lattices. Fiz. met. i metalloved. 18 no.3:450-451 S
'64. (MIRA 17:11)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR
i Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR.

L 31362-05 EWG(j)/EWP(s)/EWT(m)/EPE(s)/EPA/EWP(t)/EWP(b) Pr-4/Ps-4 TJP(s)
RDN/JD S/0020/64/158/003/0694/0698

ACCESSION NR: AP4046384

AUTHOR: Blokhin, S. M.; Vaynshteyn, E. Ye.

41
39
B

TITLE: Fine structure of the main x-ray L_{III} absorption spectra and final L β ₅ emission line of ytterbium in the oxide and hexaboride

SOURCE: AN SSSR Doklady*, v. 158, no. 3, 1984, 694-696

TOPIC TAGS: ytterbium oxide, ytterbium hexaboride, fine structure, absorption spectrum, emission spectrum, valency bond strength, forbidden zone

ABSTRACT: The fine structure of the emission and absorption spectra of ytterbium L_{III} oxide and hexaboride were used to study the energy structure of the ytterbium valency bond. The energy spectra of the main emission line of the oxide and hexaboride in these two compounds differed. In going from the oxide to the hexaboride there was a significant shift in the long wave value, both in the absorption and emission (by 4 ev) and in the position of the maximum of the last emission line, indicating a change in valency from 3 in the oxide to 2 in the hexaboride. In both

L 31362-65

ACCESSION NR: AP4048384

compounds, the asymmetry index of the emission line approximately for the oxide, the valency band was split, giving rise to a secondary maximum at 4.2 ev from the main maximum. The fine structure in the oxide was straighter and had 1 maximum, while in the hexaboride there were 3 maxima. The absorption and emission spectra of ytterbium in the hexaboride are characterized by their greater mutual overlapping resulting in the presence of a weak absorption maximum from the long wave side of the emission band. The complexity of the filling and the peculiarity of the principle of the wave functions of free electrons forming the valency bands are typical of some of the rare earth and other elements. The width of the forbidden zone E was determined by measuring the energy gap between the short wave edge of the emission and the start of the absorption of the rare earth element in the compounds, which in this case coincided with the inflection point of the absorption curve at half the height of the main maximum: E for the oxide was about 1 ev, and in the hexaboride it was near 0 and never exceeded 0.1 ev. Orig. art. has: 1 figure

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L 31362-65

ACCESSION NR: AP4046384

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdela, na Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Branch, Academy of Sciences SSSR)

SUBMITTED: 22Apr64

ENCL: 00

SUBJECT: [illegible]

NR REF SOV: 006

OTHER: 002

Card 3/3

L 34497-65 EWP(a)/EWP(m)/EWP(t)/EWP(b) IJP(c) 2D/JG
ACCESSION NR: AP5002800 S/0078/65/010/001/0121/0126 22

AUTHOR: Vaynshteyn, E. Ya., Blukhin, S. M., Brill, M. N., Starvy, I. B.,
Paderno, Yu. B. 13

TITLE: X-ray spectral investigation of the valency state of rare earth element atoms in the hexaborides

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 1, 1965, 121-126

TOPIC TAGS: rare earth hexaboride, rare earth element valence, valence determination, x ray absorption spectrum 27

ABSTRACT: The X-ray L-absorption spectra of the rare earth element hexaborides and oxides were compared to determine the valency state of the rare earth element in the hexaborides. The L_{III} absorption spectra of the Ce, Nd, Pr and Gd oxides and hexaborides were analogous, with coinciding long wave absorption line maxima, indicating the hexaborides were trivalent, as were the oxides. Differences in the short wave maxima were ascribed to differences in the crystal structure of the oxides and hexaborides. In the case of Eu and Yb, the shift of the absorption edge toward the long wave by the hexaborides in comparison to the

Card 1/2

L 34497-65

ACCESSION NR: AP5002800

oxides indicated the valency was less than 3. The spectra of Sm in SmB_6 were interpreted to indicate the presence of 35-40% divalent Sm distributed among the trivalent Sm. The effect of temperature (-100 to +600C) on the role of divalent Sm is being studied. Orig. art. has: 9 figures and 1 table.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR (Institute of Inorganic Chemistry, Siberian Branch, AN SSSR); Institut metallokeramik i spetsialnykh spлавov AN UkrSSR (Institute of Powder Metallurgy and Special Alloys AN UkrSSR); Odesskiy pedagogicheskiy institut im. K.D. Ushinskogo (Odessa Pedagogical Institute)

SUBMITTED: 11Jun63

ENCL: 00

SUB CODE: IC, GC

NR REF SOV: 007

OTHER: 001

Card 2/2

L 53-86-65 EWT(m)/T/EWP(t)/ENR(b)/ENA(c) ICP(c) JD/JG

ACCESSION NR: AP5908782

S/0126/65/019/003/0371/0374
539.22:669.35

AUTHOR: Blokhin, S. M.; Vaynshteyn, E. Ye.

27
28
B

TITLE: Analysis of the X-ray L-spectra of rare earth elements

SOURCE: Fizika metallov i metallovedeniye, v. 19, no. 2, 1965, 371-374

TOPIC TAGS: x ray analysis, absorption spectrum, shift, L band, rare earth element, valence

ABSTRACT: Data from X-ray analysis of the L-spectra of rare earth elements are studied. It is found that the increase in the valency of rare earth elements in compounds caused by an additional number of electrons of an atom being drawn into the chemical bond reduces its outer $L_{IV, V}$ and inner $L_{II, III}$ energy levels. Calculation of the shifts shows that this reduction is greater in the case of the inner levels. As the effective charge on a rare earth metal atom in the compound increases, there is a shortwave shift in the L_{III} absorption edge and the last $L\beta_5$ emission band. The increase in the valency of rare earth elements, where the 6s

Card 1/2

L 53686-65

ACCESSION NR: AP5009782

and $5d$ electrons are the valence electrons is caused by the transition of a $4f$ electron to a $5d$ state. The $4f$ electrons do not take part in the chemical bond. Ionization of the $4f$ electrons causes a greater shift of levels in atoms of rare earth elements than the ionization of $5d$ or $6s$ electrons. This is explained by the greater shift in the L_{III} absorption edge and the LB_5 emission line with an increase in valency of a rare earth element that the change in the nature of the chemical bond in compounds with an unchanged valency in the metal atoms. Orig. art. has: 1 figure.

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR (Institute of Inorganic Chemistry SO AN SSSR)

SUBMITTED: 16 Jun 64

ENCL: 00

SUB CODE: NP, IC

NO. OF PAGES: 015

OTHER: 000

SAB
Card 2/2

L 13114-66 EWT(m)/ENP(t)/ENP(k)/ENA(b)/ENA(c) IJP(c) JD/HW/JG

ACC NR: AP6000853

SOURCE CODE: UR/0181/65/007/012/3558/3561

AUTHORS: Blokhin, S. M.; Vaynshteyn, E. Ye.; Bertenev, V. M.

ORG: Institute of Inorganic Chemistry AN SSSR SO, Novosibirsk
(Institut neorganicheskoy khimii AN SSSR SO)

TITLE: X-ray spectral investigation of the valent state of samarium
in the metal and in the monosulfide

SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3558-3561

TOPIC TAGS: samarium, samarium compound, x ray absorption spectrum,
rare earth element, conduction band

ABSTRACT: In connection with the peculiarities of the electronic structure of the samarium atom, the authors experimentally investigated the x-ray L_{III} absorption spectrum of this element in the metal and in the monosulfide. A thin metallic samarium layer⁶ approximately 10 μ thick was deposited on an aluminum foil⁶ in vacuum; this deposit was then sputtered with aluminum in vacuum. An absorber prepared in this manner was stable in air and had the proper surface density. The L_{III} absorption edge was obtained with a spectrometer (URS-II) with a quartz

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L 13114-66

ACC NR: AP6000853

crystal bent in the (110) plane at a radius of 1,000 mm. The results show that in both substances the rare-earth element atoms are present simultaneously in the divalent and in the trivalent states. In the monosulfide, the concentration of the trivalent ions increases with increasing temperature, and this increase is attributed, in accordance with various published data, to thermal excitation of the 4f electrons in the conduction band. Authors thank V. P. Zhuze and his co-workers for interest in the work and for supplying the samarium monosulfide. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 10Jun65/ ORIG REF: 008/ OTH REF: 008

Card

2/2 HW

VAYNSHTEYN, E.Ye.; BLOKHIN, S.M.; BRIL', M.N.; STARYY, I.B.; PADERNO, Yu.B.

X-ray spectral study of the valence state of atoms of rare-earth elements in hexaborides. Zhur. neorg. khim. 10 no.1: 121-126 Ju '65. (MIRA 18:11)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR i Institut metallokeramiki, spetsial'nykh splavov AN UkrSSR i Odesskiy pedagogicheskiy institut imeni Ushinskogo. Submitted June 11, 1963.

BLOKHIN, S.M.; VAYNSHTEIN, E. Ye.; BERTENEV, V.M.

X-ray spectroscopic study of the valent state of samarium in
a metal and in a monosulfide. Fiz. tver. tela 7 no. 12:3558-3561
D '65 (MIRA 19:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

ACC NR: AP6026694

SOURCE CODE: UR/0181/66/008/008/2420/2426

AUTHOR: Mazalov, L. N.; Blokhin, S. M.; Vaynshteyn, E. Ye.

ORG: Institute of Inorganic Chemistry, SO AN SSSR, Novosibirsk (Institut neorganicheskoy khimii SO AN SSSR)

TITLE: Certain band-structure features of solids in x-ray spectra

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2420-2426

TOPIC TAGS: x ray spectrum, alkali halide, spectral fine structure, titanium oxide, absorption coefficient, K band, L band

ABSTRACT: The relationship between the positions of the extremal points of the band structure and fine structure of x-ray absorption by atoms in solids is studied. To determine to what degree general ideas agree with the theory, a study is made of the fine structure of the K and L atomic spectra of alkali halide crystals, namely the K and L absorption edges of potassium and chlorine in KCl. The characteristic points of the resulting curves are discussed and related to specific transitions. The maxima and minima of potassium and chlorine are interpreted. A comparison is made in a table of the fluctuation of the absorption coefficient in the K and L spectra of chlorine and potassium with the characteristic points of the band structure of KCl. Satisfactory

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ACC NR: AP6026694

results were obtained also for the L_{III} spectra of strontium and the K spectra of titanium in $SrTiO_3$, the K spectra of calcium and boron in CaB_6 , as well as the cubic and hexagonal lower oxides of titanium. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 20,07/

SUBM DATE: 12Jul65/

ORIG REF: 010/

OTH REF: 017

Card 2/2

BLOKHIN, V., konstruktor; KAZARNOVSKIY, F., konstruktor

The SK-4 combine. Sel'mekh. no.3:44-45 '62.

(MIRA 15:3)

1. Kombaynovyy zavod, gor. Taganrog.
(Harvesting machinery)

BLOKHIN, V.

Maintenance and repair of building machinery in the Main Administration for Housing and Public Construction in the City of Moscow, Na stroi. Mosk. 2 no.10:3-6 0 '59.

(MIRA 13:2)

1. Nachal'nik proizvodstvennogo otdela Upravleniya glavnogo mekhanika i glavnogo energetika.

(Moscow--Building machinery--Maintenance and repair)

BLOKHIN, V., arkhitektor

Plant and beauty. Sov. profsoiuzy 17 no.18:45-46 S '61.
(MIRA 14:8)
(Factories--Design and construction)

KIM, N., kand.arkhitektury; BLOKIN, V., arkhitektor

Architect and technological aesthetics. NTO 4 no.10:28-31
O '62. (MIRA 15:9)

1. Zamestitel' direktora Tsentral'nogo nauchno-issledovatel'skogo
instituta promyshlennykh zdaniy Akademii stroitel'stva i
arkhitektury SSSR (for Kim).
(Art and industry)

BLAGIN, V., arkhitektor

Identification code coloring of intrashop piping systems.
Tekh. est. no.3:19-20 Mr '65. (MIRA 18:6)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.

BLOKHIN, V.G.
BABENKO, L.V.; DAVYDOVA, M.S.; ZAKORKINA, T.N.; BLOKHIN, V.G.; VORONKOV, N.A.;
NAUMOV, R.L.; KHIZHINSKIY, P.G.

Characteristics of an area of endemic tick-borne encephalitis in the construction zone of the Krasnoyarsk Hydroelectric Power Station and development of measures for the protection of workers against ticks; preliminary report. Med.paraz.i paraz.bol. 27 no.1:6-14 Ja-F '58.

(MIRA 11:4)

1. Iz sektora entomologii Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P.G.Sergiyev, zav. sektorom - prof. V.N.Beklemishev) i Omskogo Instituta epidemiologii, mikrobiologii i giiyeny.

(ENCEPHALITIS, epidemiology

tick-borne encephalitis in construction zone, protection of workers (Rus))

BLOKHIN, V.I.

Production line for cutting out rubber forms. Kauch.i rez. 20
no.7:46-49 J1 '61. (MIRA 14:6)

1. Zavod "Krasnyy treugol'nik,"
(Rubber industry—Equipment and supplies)

YERMOLAYEV, N.P.; KOVALENKO, G.S.; KROT, N.N.; BLOKHIN, V.I.

Photometric determination of neptunium by means of xylenol
Orange. Zhur. anal. khim. 20 no.12:1333-1340 '65.

(MIRA 18:12)

1. Submitted February 3, 1964.

BLOKHIN, V. N.

BLOKHIN, V. N.

Plastic surgery in total and partial defects of fingers and wrist.
Khirurgiya, Moskva No. 11, Nov. 50. p. 51-7

1. Of the Central Institute of Traumatology and Orthopedics
(Director—Honored Worker of Science Prof. N. N. Priorov) of the
Ministry of Public Health USSR.

OTDEL 20, 3, March 1951

BLOKHIN, V.N., dotsent

Use of plastics in arthroplasty of the hip joint. Ortop.travm.
protez., Moskva no.1:18-24 Ja-F '55. (MLBA 8:10)

1. Iz Tsentral'nogo instituta travmatologii i ortopedii (dir.-
chlen-korrespondent AMN SSSR prof. N.N.Priorov)
(HIP, surgery,
arthroplasty, acrylic prosthesis)
(ACRYLIC RESINS,
coxarthroplasty)

BLOKHIN, V.N., dotsent

Pathogenesis and therapy of contractures of the hand and fingers.
Ortop.travm. i protez. no.5:34-39 S-0 '55. (MLRA 9:12)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. -
chlen-korrespondent AMN SSSR prof. N.N.Priorov)
 - (HAND, wounds and injuries
 - burns causing contractures, pathogen. & ther.)
 - (FINGERS, wounds and injuries
 - burns causing contractures, pathogen. & ther.)
 - (BURNS
 - hand & fingers, causing contracture, pathogen. & surg.)

BLOKHIN, V.N.; BOGDANOV, F.R.; YAZYKOV, D.K.

Seventh Congress of Orthopedists in the German Democratic Republic
held on May 7-17, 1957. Ortop.travm. i protez. 18 no.6:65-71
N-D '57. (MIRA 11:4)

(GERMANY, EAST--ORTHOPEDIA--CONGRESSES)

BLOKHIN, V.N., dotsent

Reconstruction of the hand and fingers by means of Filatov's
graft, bone transplant, cartilage, or plastics. Khirurgiia
35 no. 5:35-40 My '59. (MIRA 13:10)

1. Iz Tsentral'nogo instituta travmatologii i ortopedii (dir. -
deystvitel'nyy chlen AMN SSSR prof. N.N. Priorov).
(HAND—SURGERY) (TRANSPLANTATION OF ORGANS, TISSUES, ETC.)