

L 11850-66 EWT(m)/EWP(e)/EWP(b) WH/GS
ACC NR: AT6000510

SOURCE CODE: U1/0000/65/000/000/0382/0386

AUTHOR: Alekseyeva, O. S.; Bokin, P. Ya.; Govorova, R. A.; Korelova, A. I.;
Nikandrova, G. A.

ORG: None

TITLE: Structural changes in lithia-silica and lithia-alumino silica glasses
during crystallization and their effect on mechanical properties

SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomy sostoyaniyu, 4th,
Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy sovesh-
chaniya, Leningrad, Izd-vo Nauka, 1965, 382-386

TOPIC TAGS: lithium glass, silicate glass, aluminum silicate, glass property,
catalyzed crystallization, crystallization, electron microscopy, x-ray analysis,
and mechanical property

ABSTRACT: Two lithia-silica glasses (34.4 and 23.4 mol % of Li₂O) and one
lithia-aluminosilica glass containing a small admixture of potassium oxide and
silver and cerium dioxide catalysts have been investigated. Polished glass
samples (20 x 25 x 3 mm) were crystallized under single or repeated heating to
400-900°C over periods of 4 to 24 hrs. The structure was investigated by stand-
ard (2375 X) and electron (8000 X) microscope, while the composition was checked

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by x-ray phase analysis. Experimentally obtained data cover the crystalline phases, density, microhardness, surface strength, and Young's modulus. Comparative analysis of the results shows that the mechanical properties of the glasses are sensitive to the phase transitions within the glass samples. The electron microscope work was performed by A. D. Piskunova. Orig. art. has: 2 figures and 1 table.

9855

SUB CODE: 11, 20 / SUBM DATE: 22May65 / ORIG REF: 005 / OTH REF: 002

jw
Card 2/2

L 07416-67 EWP(e)/EWT(m) WW/WH
ACC NR: AP6030775 (A)

SOURCE CODE: URG/0363/66/002/009/1636/1645

AUTHOR: Bokin, P. Ya.; Korelova, A. I.; Piskunova, A. D.

27
B

ORG: Institute of Silicate Chemistry im. I. V. Gribenshchikov, Academy of Sciences,
SSSR (Institut khimii silikatov Akademii nauk SSSR)

TITLE: Kinetics of phase transformations and change in microstructure and mechanical properties during the pyroceramization of lithium aluminosilicate glass /5/

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 9, 1966, 1636-1645

TOPIC TAGS: glass property, silicate glass, catalyzed crystallization, ALUMINUM SILICATE

ABSTRACT: The purpose of the study was to determine the rate of formation and the stability limits of primary metastable phases during catalyzed crystallization of one of the compositions of lithium aluminosilicate glasses, to follow their transition to the state of equilibrium, and to identify the accompanying changes in the microstructure of crystallized glasses and their effect on the mechanical properties. Dilatometry, x-ray phase analysis, microscopy and electron microscopy were employed. It was found that the composition of the separating crystals is determined by the heat treatment conditions: a single heating of the glass causes the crystallization of metastable crystalline phases - lithium metasilicate and a β -mucryptite solid solution, which are stable even when exposed to high temperatures for long periods of time. In a double heat treatment, heating in the temperature range below t_g and then at high

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UDC: 666.1:541.65:541.12.017

L 07416-67

ACC NR: AP6030775

temperatures causes the separation of metastable phases. In the case of primary heating at temperatures above t_g , conditions are created in the glass which promote a rapid transformation of the metastable phases into equilibrium ones. Depending upon the composition, form, size of the crystals and the degree to which they fill up the volume of the crystallized glass, a considerable change in its mechanical properties may take place. Orig. art. has: 8 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 09Aug65/ ORIG REF: 007/ OTH REF: 004

Card 2/2 phs

Name: BOKINA, A. I.

Dissertation: Material on the hygienic basis of the permissible content
of sulfate ion in household and drinking water

Degree: Cand Med Sci

Defended at

Affiliation: Acad Medical Sci USSR

Publication

Defense Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 45, 1956

BOKINA, A. I.

Material on physiological foundation for hygienic tolerances of sulfates in drinking water. A. I. Bokina (Acad. Med. Sci., Moscow). *Gigiena i Sanitari*, 1958, No. 2, 7-14.
—Considerable expnl. material with human and animal subjects indicates that a concn. of SO₄ ion in drinking water up to 500 mg./l. is permissible. Concns. higher than double this figure begin to alter the secretory gastric function; very high SO₄ ion content tends to reduce water intake and to induce diarrhea. G. M. Kosolapoff

(D)

Bokunov A.P.

Comparison of the methods of Mett and Gross for assay
the peptic activity. A. I. Bodkin (Inst. Gen. and Fiziol.
iiva, Moscow). ZOLOGICHESKII JOURNAL, No. 2, 30-1 (1958).

Mett's method is simple but erratic. Measuring the length
of the digested eggwhite is subject to individual errors.
Furthermore, due to slowing of diffusion currents the interior
of the column is not entirely accessible to the pepsin action.
In the Gross method there is less chance for error. De-
creasing amounts of trypsin juice are allowed to act upon a
 Na_2CO_3 sol. of casein which are subsequently acidified and
the limit of activity is indicated by the first tube showing
turbidity due to undigested casein. The relation between
the peptic power as determined according to Gross and
Mett can be expressed through the coefficient 0.52.

Iz Fiziologicheskoy laboratorii Instituta obshchey
gigieny (dir - deystvitel'nyy chлен A kademii medici-
SSSR professor A.N. Sysin) A kademii meditsinskikh
kommunal'noy sinskikh nauk iauk SSSR, Moskva.

BOKINA A.I.

KANDROR, I.S.; BOKINA, A.I.

Proof of physiological justification for the officially admissible salt level in drinking water. J. Hyg. Epidem., Praha 1 no.3:278-291 1957.

1. Physiologisches Laboratorium des Instituts fur allgemeine und Kommunalhygiene der Akademie der medizinischen Wissenschaften der UdSSR, Moskau.

(WATER SUPPLY

admissible sodium sulfate content, eff. on gastrointestinal system in dogs)

(SULFATES, eff.

sodium sulfate on gastrointestinal system in dogs in determ. of admissible level in drinking water)

(GASTROINTESTINAL SYSTEM, eff. of drugs on

sodium sulfate in dogs in determ. of admissible level in drinking water)

(SODIUM, eff.

sodium sulfate on gastrointestinal system in dogs in determ. of admissible level in drinking water)

E. K. I. N. A., M. I.
DIPLOMA, A.I.; KANDROR, I.S.

Character of diuresis and the elimination activity (clearance) of the kidneys with different concentration of chlorine and sulfate ions in the drinking water; materials on the physiological determination of hygienic norms of the salt content of drinking waters. Gig. i san. 25 no. 5:14-20 My '60. (MTRA 13:10)

1. Iz Instituta obshchey i kommunal'noy gigiyery imeni A.N. Sysina AMN SSSR.
(KIDNEYS) (WATER SUPPLY)

MALEVSKAYA, I.A.; BOKINA, A.I.

Change in some physiological indices on the water-salt metabolism in adolescents continuously drinking highly mineralized water. Biul. eksp. biol. i mei. 53 no.1:17-21 Ja '62. (MIRA 15:3)

1. Iz fiziologicheskoy laboratorii (zav. - doktor biologicheskikh nauk I.S. Kandror) Instituta obshchey i komunal'noy gigiyeny (dir. - prof. N.N. Litvinov) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.

(WATER METABOLISM)
(BATH REGION-MINERAL WATERS)
(SALT IN THE BODY)

KANDROR, I.S.; BOKINA, A.I.; MALEWSKAJA, I.A.

Evidence for the physiological basis of drinking water salt content standards. III. Data on the influence of different sodium chloride and sulfate concentrations in drinking water on diuresis, on the purifying function of the kidney and on intestinal function. J. hyg. epidem. 6 no.4:407-421 '62.

1. A.N. Sysin-Institut fur allgemeine und Kommunalthygiene, physiologisches Laboratorium, Akademie der medizinischen Wissenschaften, Moskau.

(WATER SUPPLY) (SODIUM CHLORIDE) (SULFATES)
(KIDNEY) (INTESTINES) (DIURESIS)

KANDROR, I.S.; BOKINA, A.I.; MALEVSKAYA, I.A.; PETROV, Yu.L.;
CHERKINSKIY, S.N., red.; SELESKERIDI, I.G., red.;
GONCHAROVA, L.A., tekhn. red.

[Hygienic norms for salt content in drinking water] Gi-
gienicheskoe normirovanie solevogo sostava pit'evoi vody.
[By] I.S.Kandror i dr. Moskva, Medgiz, 1963. 157 p.
(MIRA 17:3)
1. Chlen-korrespondent AMN SSSR (for Cherkinskiy).

*

BOKINA, V.M.; ZARINSKIY, V.A.; SHTIFMAN, L.M.

High-frequency titration. Report No.11: Determination of perchloric acid in its mixture with nitric acid in a glacial acetic acid medium. Zhur. anal. khim. 19 no.5:635-637 '64.
(MIRA 17-9)

Institut geokhimii i analiticheskoy khimii imeni Vernadskogo
AN SSSR, Moskva.

TROJNACKI, Zdzislaw; KLONOWSKI, Henryk; BOKINIEC, Michal

Application of hydrocortisone into the uterine cavity as a therapeutic method in post-inflammatory obstruction of the fallopian tubes. Ginek. Pol. 33 no.1:137-140 '62.

I. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Lublinie Kierownik: prof. dr S. Liebhart.

(FALLOPIAN TUBES dis) (HYDROCORTISONE ther)

LIEBHART, Stanislaw; BOKINIEC, Michal

Selected clinical problems of male sterility. Pol. tyg. lek.
19 no.28:1119-1122 13-20 Jl'64

1. Z I Kliniki Poloznictwa i Chorob Kobiecyci Akademii medycznej w Lublinie; kierownik: prof. dr. med. Stanislaw Liebhart).

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1

TREBICKA-KWIATKOWSKA, Barbara; BOKNIEC, Michal; BROWICZ, Cecylia

Infecticus parotitis and female fertility. Ginek. Pol. 35 no.6z
845-851 N-D '64

1. Z I Kliniki Położnictwa i Chorob Kobiecych Akademii Medycznej
w Lublinie (Kierownika prof. dr.med. S. Liebharts) i z Wojewódzkiej
Poradni Świadomego Macierzyństwa w Lublinie (Dyrektora dr. B.
Włodarski).

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

ZYTKIEWICZ, Anna; BOKINIEC, Michal; CZARKOWSKA, Daniela; PAPIERKOWSKI, Andrzej

Statistical analysis of fetal malformations with special consideration
on some causes. Pol. tyg. lek. 20 no.38:1420-1422 20 S '65.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Lublinie (Kierownik:
prof. dr. med. Stanislaw Liebhart) i z Zakladu Anatomii Patologicznej
AM w Lublinie (Kierownik: doc. dr. med. Maria Rozynek).

KRYZHANOVSKIY, O.M. [Kryzhanov's'kyi, O.M.] (Kiyev); BOKE'T'KO, I.I. (Kiyev);
PUSHCHALOVSKIY, A.D. [Pushchalovs'kyi, A.D.] (Kiyev)

Relay systems in automatic dosing-out and pouring; of liquid metals.
Avtomatyka 9 no.6:44-54 '64. (MIRA 18:1)

BOKIT'KO, M.V.

Device for the vertical pneumatic transport of dry materials. Gor.khoz.Mosk.
21 no.2:35 F '47. (MLRA 6:11)
(Building materials) (Pneumatic tube transportation)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1

BOKIT'KO, M.V., inzhener; ALESHIN, N.I., inzhener.

Mechanization of finishing work. Mekh.trud.rat.8 no.1:30-34
Ja-F '54. (MLRA 7:2)
(Building)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

KIRILLOVA, Aleksandra Grigor'yevna; BOKIT'KO, M.V., nauchnyy red.;
VLADIMIROVICH, A.G., red.; TOKER, A.M., tekhn.red.

[Modern painting methods] Sovremennye metody maliarskikh rabot.
Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1959.
81 p.
(Painting, Industrial)

ACC NR: AT6014271

SOURCE CODE: UF/0000/64/000/000/0007/0018

AUTHOR: Bokiy, . B.

ORG: none

TITLE: General principles for the classification of all possible combinations of elements on the basis of the Periodic Table of the Elements and similarity of the crystal structure of compounds

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut neorganicheskoy khimii. Kristallichеские структуры arsenidov, sul'fidov, arsenosul'fidov i ikh analogov (Crystal structure of arsenides, sulfides, arsenosulfides and their analogs). Novosibirsk, Izd-vo AN SSSR, 1964, 7-18

TOPIC TAGS: arsenide, sulfide, arsenosulfide, chemical compound, crystal chemistry, physical chemistry theory, periodic system

ABSTRACT: General principles were outlined for the classification of all possible combinations of elements on the basis of the Periodic Table of the Elements and similarity of the crystal structure of compounds. The minerals and synthetic compounds were subdivided into orders, families, and genera analogous to biological categories. The proposed classification included the phases of variable composition (continuous solid solutions, daltonides, and berthollides). Physicochemical properties of the compounds not yet synthesized and of undiscovered minerals may be predicted on the basis of the proposed classification. Orig. art. has: 1 figure and 2 tables.
[FSB: v. 2, no. 10]

SUB CODE: 07

Card 1/1

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1

BOKIY, B. V.

Bokiy, B. V. "The basic requirements for establishing a single classification method for underground systems of processing useful hard minerals", in the collection entitled: Voprosy gornogo dela, Moscow, 1948, p. 25-36.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1

BOKII, B.V.

BOKII, B.V. Mining; for use as a textbook for the non-operating departments
of mining colleges Moskva, Ugletekhizdat, 1949. 518 p. (50-31153)

TN145.B58

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

BOKIY, B. V.

Technology

Osnovy gornogo dela (Principles of mining). Moskva, Ugletekhizdat, 1951. 240p.

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

1. BOKIY, B. V., DOCENT
2. USSR (600)
4. Coal Mines and Mining - Donets Basin
7. Remarks on M. L.'s article "Remarks on the term 'complete filling up' in G. I. Goykhman's book 'Review of mining systems in the coal fields of the Donets Basin'." Ugol' 27, no. 11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1

BOKIY, B.V.

BOKIY, B.V.; TRPLITSKIY, G.A., redaktor; TRAKHMAN, A.I., redaktor;
SEUSHKOVSKAIA, Ye.L., redaktor; SHPAK, Ye.G., tekhnicheskiy redaktor.

[Mining industry] Gernes dele. Moskva, Ugletekhnidat, 1953. 743 p.
(Mining engineering) (MIRA 7:?)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

BOKIY, B. V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Bokiy, B.V.	"Mining" (student manual)	Leningrad Mining Institute

DD: K-BUD64, 7 July 1974

BOKIY, Boris Vyacheslavovich

Gornoje Delo. Izd. 2., Ispr. i Dop. Moskva, Ugletekhizdat, 1954.
547 p. illus., diagrs., tables.
Bibliographical footnotes

BOKIY , B.V.

ANDREYEV, S.Ye.; BOKIY, B.V.; GORODITSKIY, P.I.; GRMYVER, N.S.; SHCHUKIN, A.A.
GERONT'YEV, V.I.; SKOCHINSKIY, A.A.; TERPIGOROV, A.M.; SHEVYAKOV, L.D.;
SPIVAKOVSKIY, A.A.; VYRKHOVSKIY, I.M.; VORONKOV, I.M.; YELANCHIK, G.M.;
KASHIN, N.V.; SLOBODIKIN, M.I.; GUZENKOV, P.G.; ZEMSKOV, V.D.; NOVIKOV, F.S.
OSETSKIY, V.M.; SOSUNOV, G.I.; YASYUKAEVICH, S.M.; KHAN, G.A.; POPOV, V.M.

In memory of Professor Levenson. Gor.zhur. no.9:60 S '55.
(MLRA 8:8)

(Levenson, Lev Borisovich, 1878-1955)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1

BOKIY, Boris Vyacheslavovich; SHUSHKOVSKAYA, Ye.L., redaktor izdatel'stva;
KLADOOVA, Ye.I., tekhnicheskij redaktor

[Fundamentals of mining] Osnovy gornogo dela. Izd. 2-ee, ispr. i
dop. Moskva, Ugletekhsizdat, 1956. 214 p. (MLRA 9:10)
(Mining engineering)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1

BOKIY, Boris Vyacheslavovich; DZHALALBEKOVA, L.A., otv. red.; LEONT'YEVA,
L.B., tekhn. red.

[Coal] Solnechnyi kamen'. Leningrad, Gos. izd-vo detskoi lit-ry,
1957. 25 p. (MIRA 11:12)

(Coal)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

BOKIY, G.V.

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSTEIN, S.A., inzh.; BOIKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BONDARENKO, A.P., inzh.; BUCHINOV, V.K., kand. tekhn. nauk; VENKUNOV, G.P., kand. tekhn. nauk; VOLKOV, A.F., inzh.; GELESKUL, M.N., kand. tekhn. nauk; GORODNICHENOV, V.M., inzh.; DEMENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk; LEPIFANTSIEV, Yu.K., kand. tekhn. nauk; YERASHKO, I.S., inzh.; ZHEDANOV, S.A., kand. tekhn. nauk; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, E.N., inzh.; ZORI, A.S., inzh.; KAPLAN, L.B., inzh.; KATSUROV, I.N., dots.; KITAYSKIY, B.W., inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand. tekhn. nauk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand. tekhn. nauk; MAN'KOVSKIY, G.I., doktor tekhn. nauk; MANKOVSKIY, A.L., inzh.; MINDELI, B.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYKENBURG, V.Ye., kand. tekhn. nauk; POKROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, M.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SEMOVSKIY, V.N., doktor tekhn. nauk; SKIRGELLO, O.B., inzh.; SUKRUT, A.A., inzh.; SUKHANOV, A.F., prof., doktor tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; THUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FEDYUKIN, V.A., inzh.; KHOKHLOVKIN, D.M., inzh.; KHRABROV, N.I., kand. tekhn. nauk; CHEKAREV, V.A., inzh.; CHERNAVKIN, N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANCHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPLUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T.,

(Continued on next card)

ANDROS, I.P.---(continued) Card 2.

red.; SANOVICH, P.O., red.; VOLOVICH, M.Z., inzh., red.; GORITSKIY,
A.V., inzh., red.; POLUYANOV, V.A., inzh., red.; FADEYEV, E.I.,
inzh., red.; CHENCHKOV, L.V., red. izd-va; POMGOROVSKAYA, V.L.,
tekhn. red.; NADENINSKAYA, A.A., tekhn. red.

[Mining; an encyclopaedic handbook] Gornoe delo; entsiklopedicheskii
spravochnik, Glav. red. A.M. Terpigorev. Moskva, Gos. nauchno-
tekhnicheskoe izd-vo lit-ry po ugol'noi promyshl. Vol.4 [Mining
and timbering] Provedenie i kreplenie gornykh vyrabotok. Red-
kollegija (toma: N.M.Pokrovskii... 1958. 464 p. : . (MIRE 11:7)

(Mine timbering) (Mining engineering)

BAKINOV, G.P.; BOIKY, D.N.; BOKIY, O.B.; BORISOV, A.A.; BORISOV, D.F.;
VAYPOLIN, A.P.; GALAEV, N.Z.; GOLOVIN, G.M.; GORODETSKIY, P.I.;
DUBRAVA, T.S.; ZOLOTAREV, N.D.; KAZAKOVSKIY, D.A.; KELL', L.H.;
KOMAROV, V.B.; MAKHNO, Ye.Ya.; MISNIK, Yu.M.; MUSTHL', P.I.;
PISKUNOV, I.N.; SMOLOVSKIY, V.N.; KHANUKAYEV, A.N.; SHABLYGIN, A.I.;
POPOV, V.M.

Aleksandr Mikhailovich Aliamskii; an obituary. Gor. zhur. no.2:
76-77 '58.
(Aliamskii, Aleksandr Mikhailovich, d. 1957)
(MIRA 11:3)

BOKIY, Boris Vyacheslavovich, prof.. Prinimala uchashchiye ZIMINA, Ye.A.,
kand.tekhn.nauk. SHUSHKOVSKAYA, Ye.L., red.izd-va; VINOGRADOVA,
G.V., red.izd-va; BERESLAVSKAYA, L.Sh., tekhn.red.

[Mining engineering] Gornoe delo. Izd.3., ispr. i dop. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1959. 863 p.

(MIRA 13:3)

(Mining engineering)

BOKIY, B.V.

Fiftieth anniversary of the "Zapiski" of the Mining Institute;
historical data. Zap. LGI 40:3-7 '59. (MIRA 14:5)
(Mines and mineral resources—Periodicals)

KILYACHKOV, Anatoliy Petrovich; BOKIY, B.V., prof.; SHUSHKOVSKAYA,
Ye.L., otv.red.; VINOGRADOVA, G.V., red.izd-va; SABITOV, A.,
tekhn.red.

[Opening and mining systems for coal deposits] Vskrytie i
sistemy razrabotki ugol'nykh mestorozhdenii. Izd.2., perer.
i dop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu
delu, 1960. 514 p. (MIRA 14:1)
(Coal mines and mining)

MÜSTEL', P.I.; DYAD'KIN, Yu.D.; BOKIY, B.V.; KELL', L.N.; KOMAROV, V.B.;
SEMEVSKIY, V.N.; BORISOV, D.P.; GOLOVIN, G.M.; USEVICH, I.V.;
DUBRAVA, T.S.; SHABLYGIN, A.I.; ZOLTOAREV, N.D.; GALAYEV, N.Z.;
SIGACHEV, A.Ye.; PANENKOV, Yu.I.; SENUK, D.P.; KOPYLOVA, Ye.V.

Pavel Ivanovich Gorodetskii; an obituary. Gor zhur. no.5:77 My '60.
(MIRA 14:3)
(Gorodetskii, Pavel Ivanovich, 1902-1950)

BOKIY, Boris Vyacheslavovich, prof.; ZIMINA Yekaterina Aleksandrovna,
dots.; SMIRNYAKOV, Vitaliy Vasil'yevich, dots.; TIMOF'EYEV,
Oleg Vladimirovich, dots.; FEDOROV, S.A., prof., retsenzent;
SHMELEV, A.I., red.izd-va; LOMILINA, L.N., tekhn. red.

[Mining engineering and mine supports] Provedenie i kreplenie
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izdat, 1963. 557 p. (MIRA 17:2)

TRUPAK, Nikolay Grigor'yevich; BOKIY, B.V., prof., ratsenzent

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in difficult hydrogeological conditions." Shacht.stroi. 8
no.1:32 Ja '64. (MIRA 17:4)

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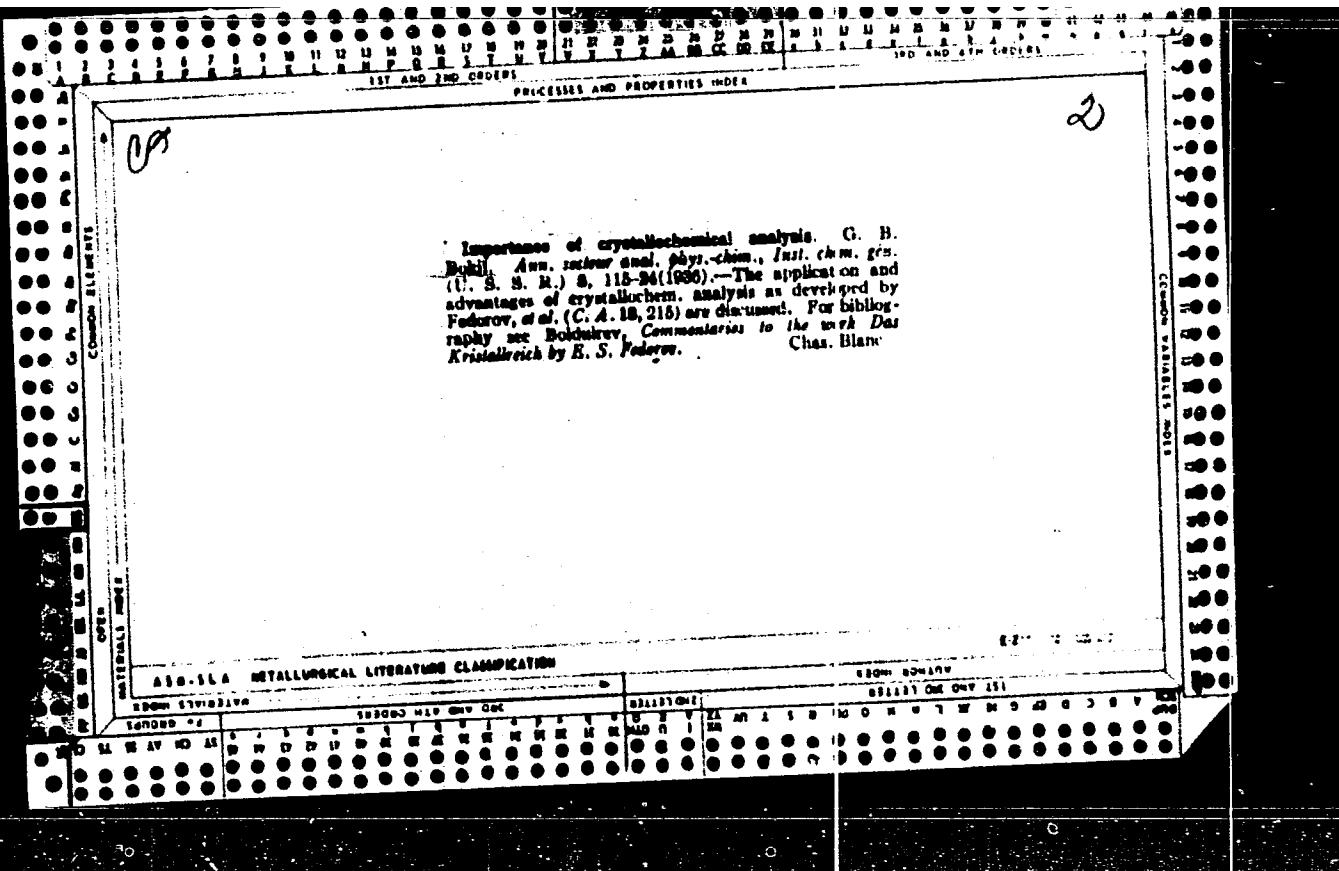
BOKIY, D.N.

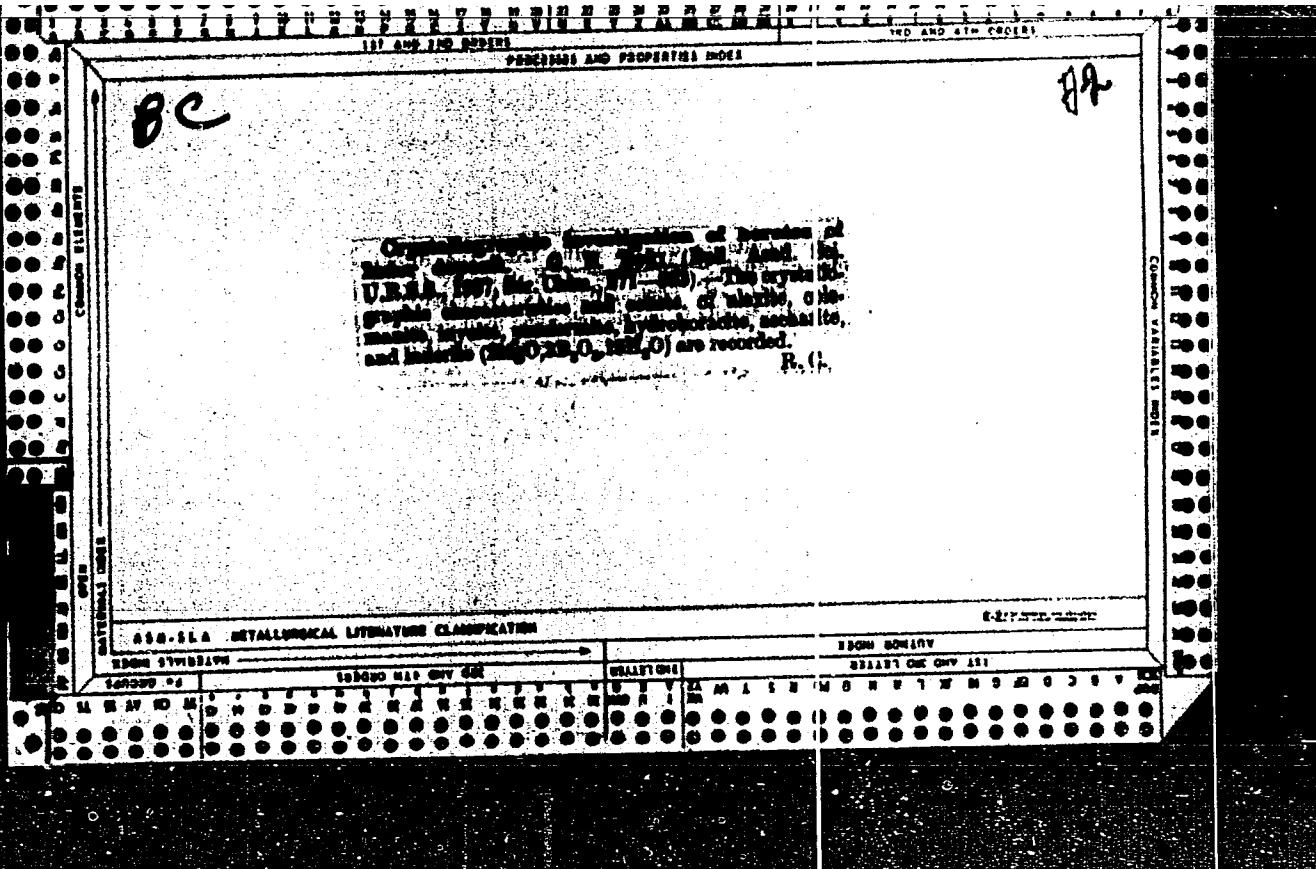
Shortcomings of two pamphlets ("One hundred and fifty-eight eggs from a laying hen per year" and "Our work practices in raising ducklings" by K.A. Kitaitsev, E.P. Trukhina. Reviewed by D.N. Bekii).
Ptitsevedstvo 8 no.10:42 O '58. (MIRA 11:10)

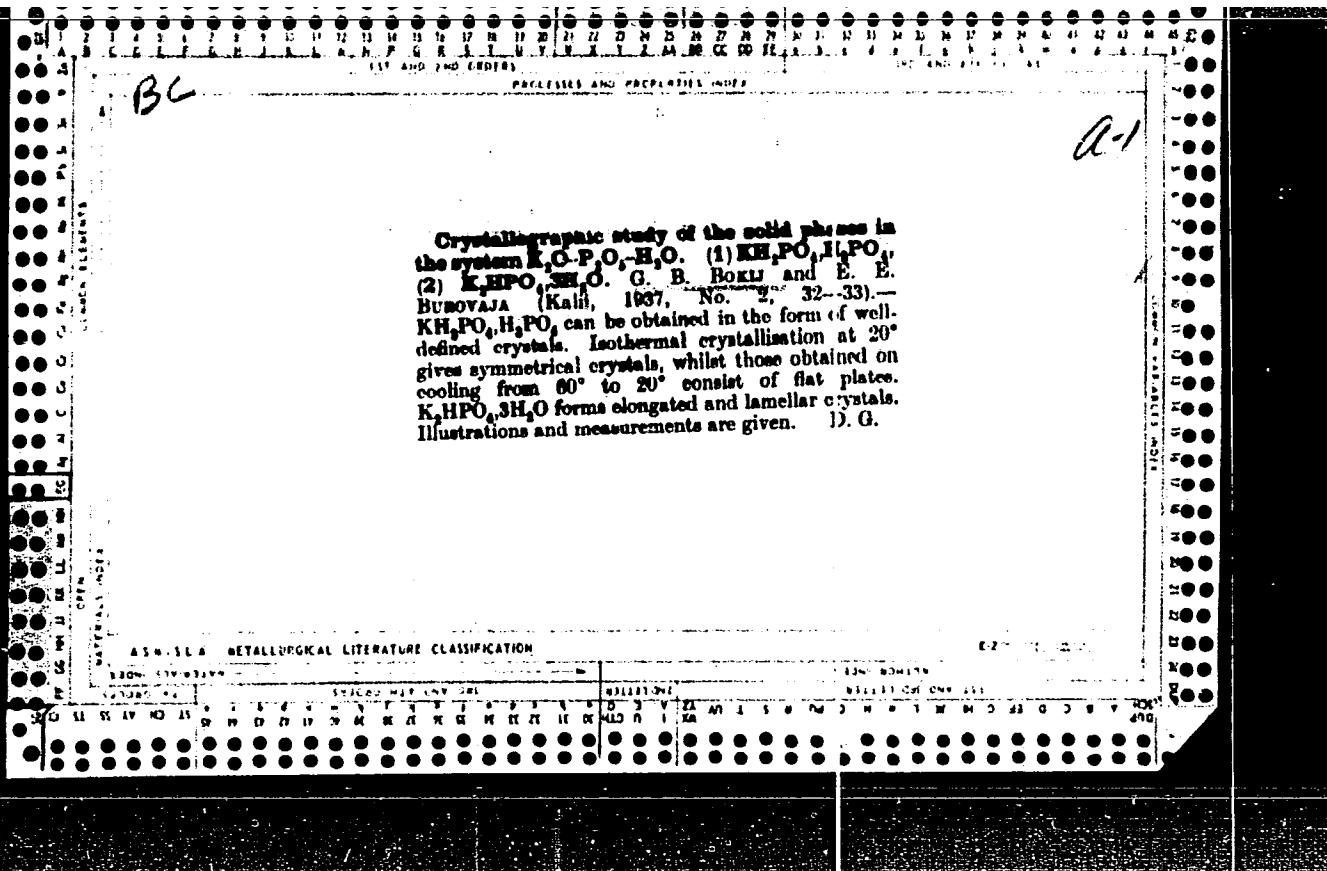
1. Glavnyy zootekhnik sovkhoza "Mamine," Sverdlovskiy oblasti.
(Poultry) (Kitaitsev, K.A.) (Trukhina, E.P.)

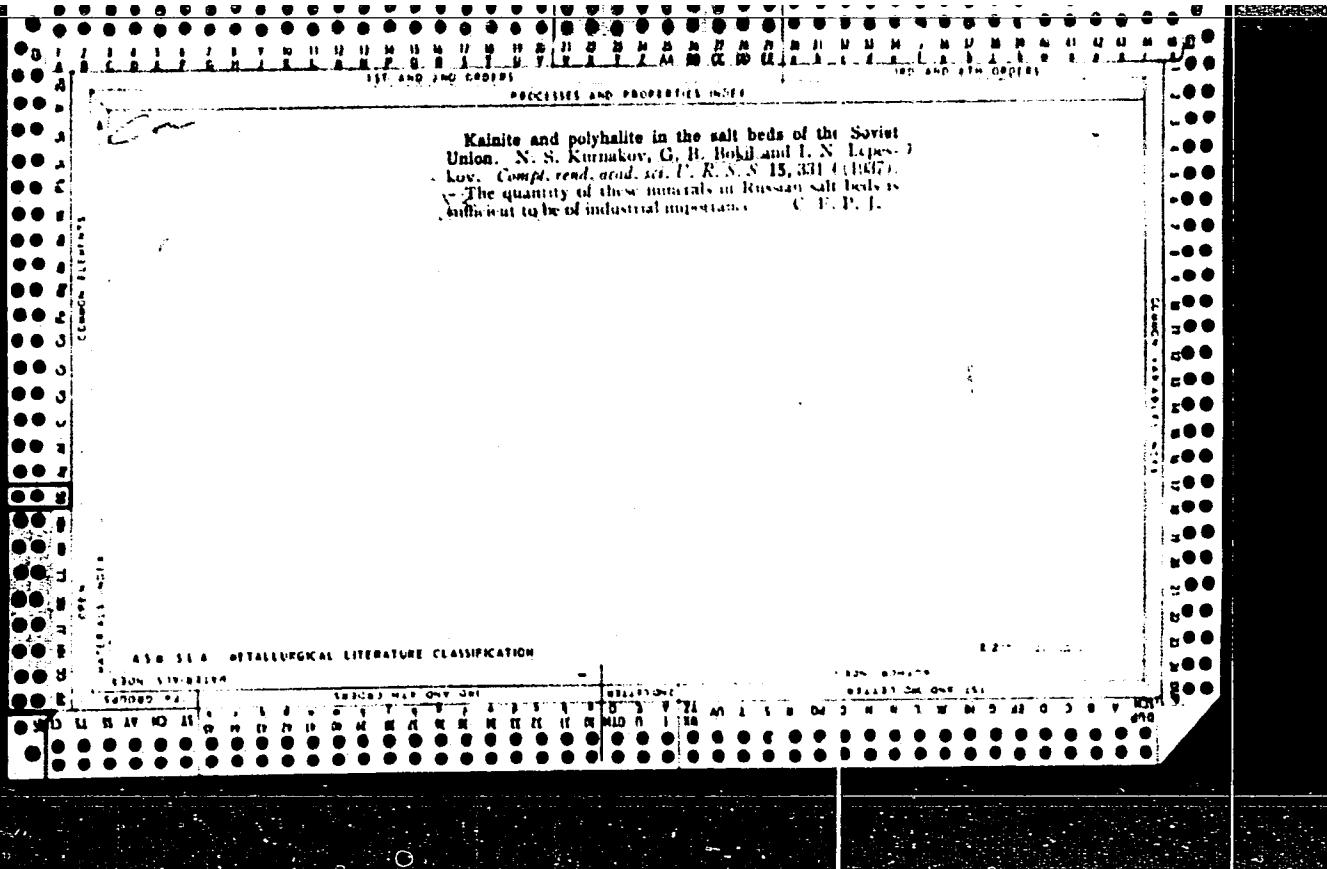
BOKIY, D.N., zootehnik

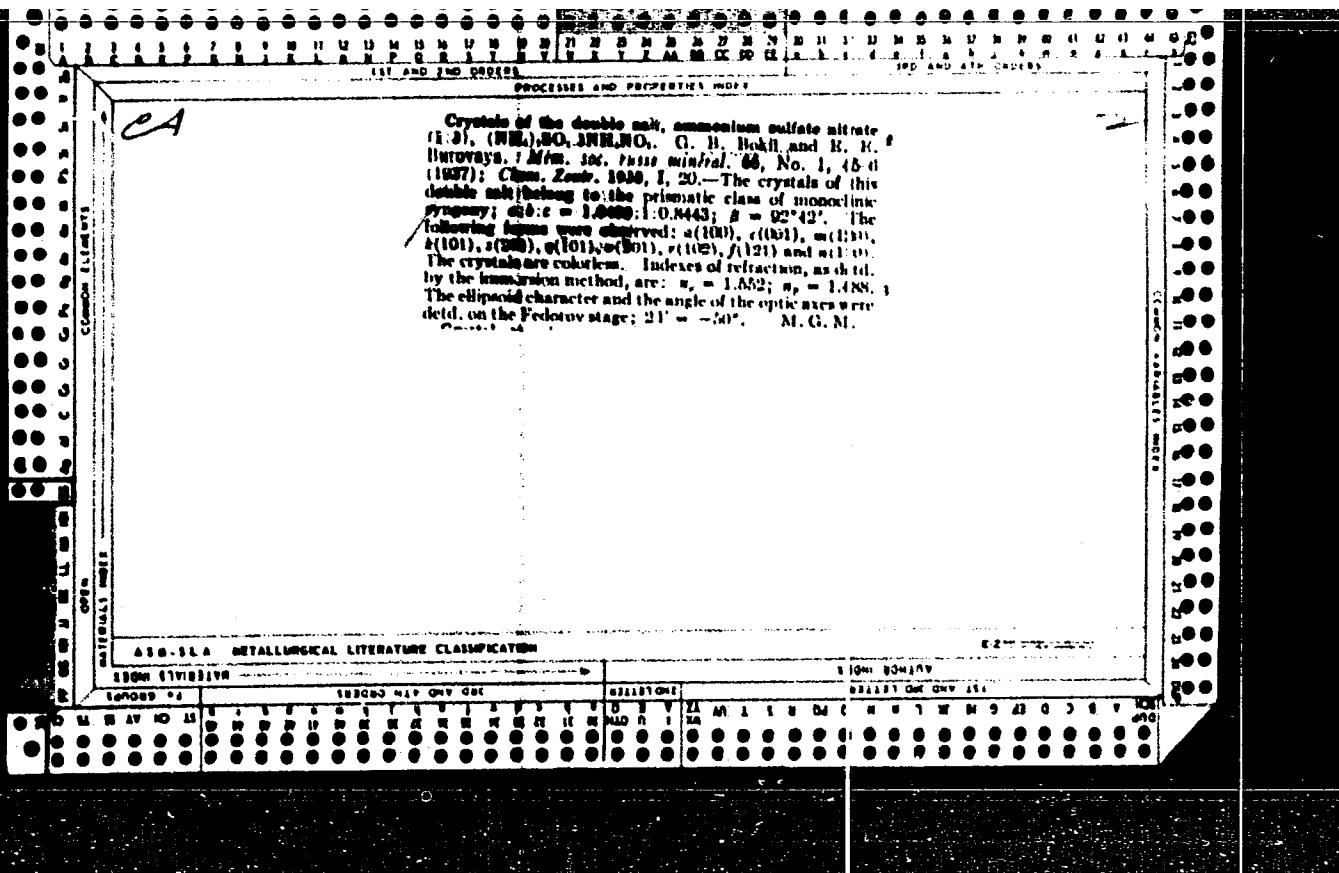
Effect of laying conditions on egg yields of poultry. Ptitsevod-
stvo 9 no.7:13-14 Jl '59. (MIRA 12:10)
(Eggs--Production)

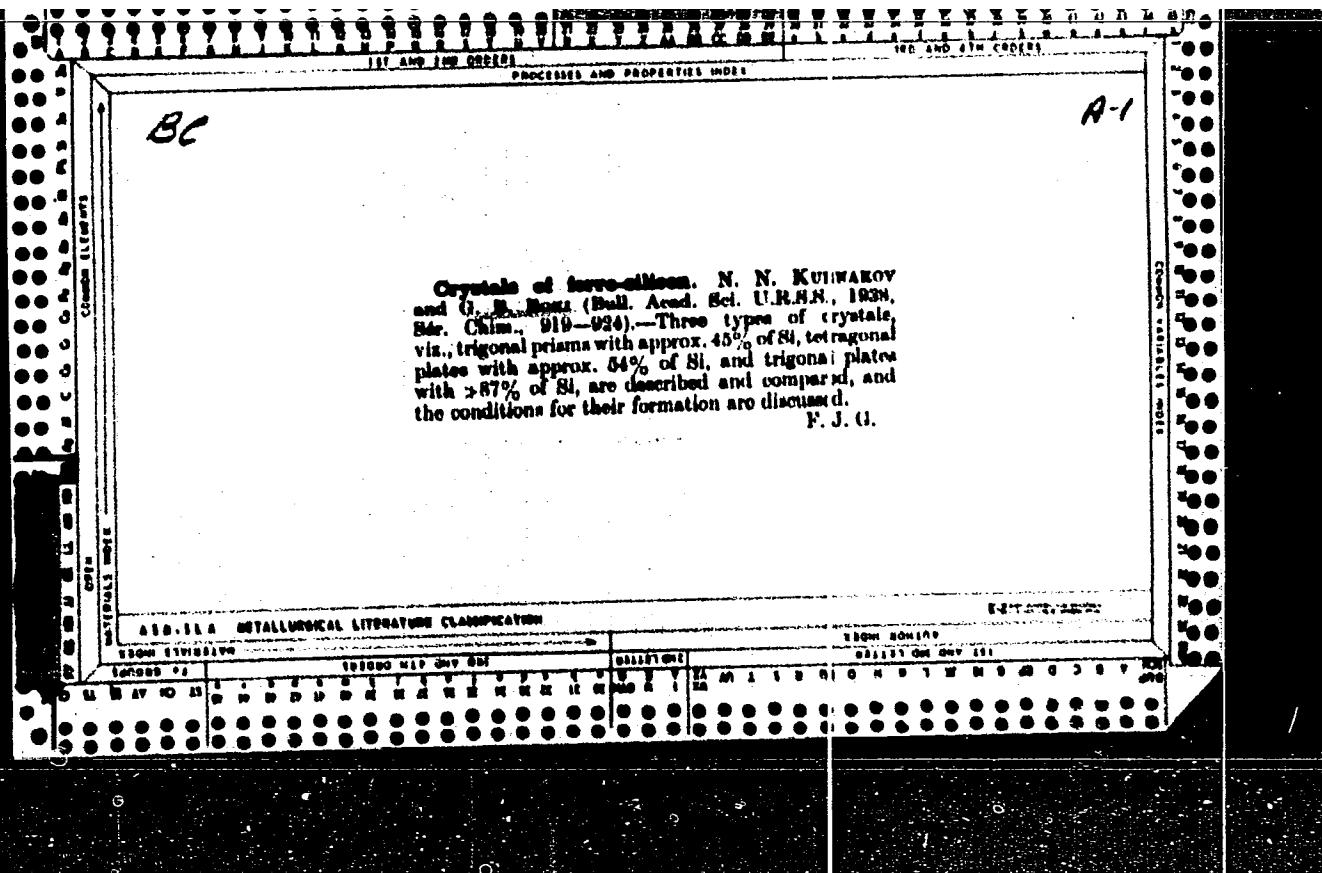


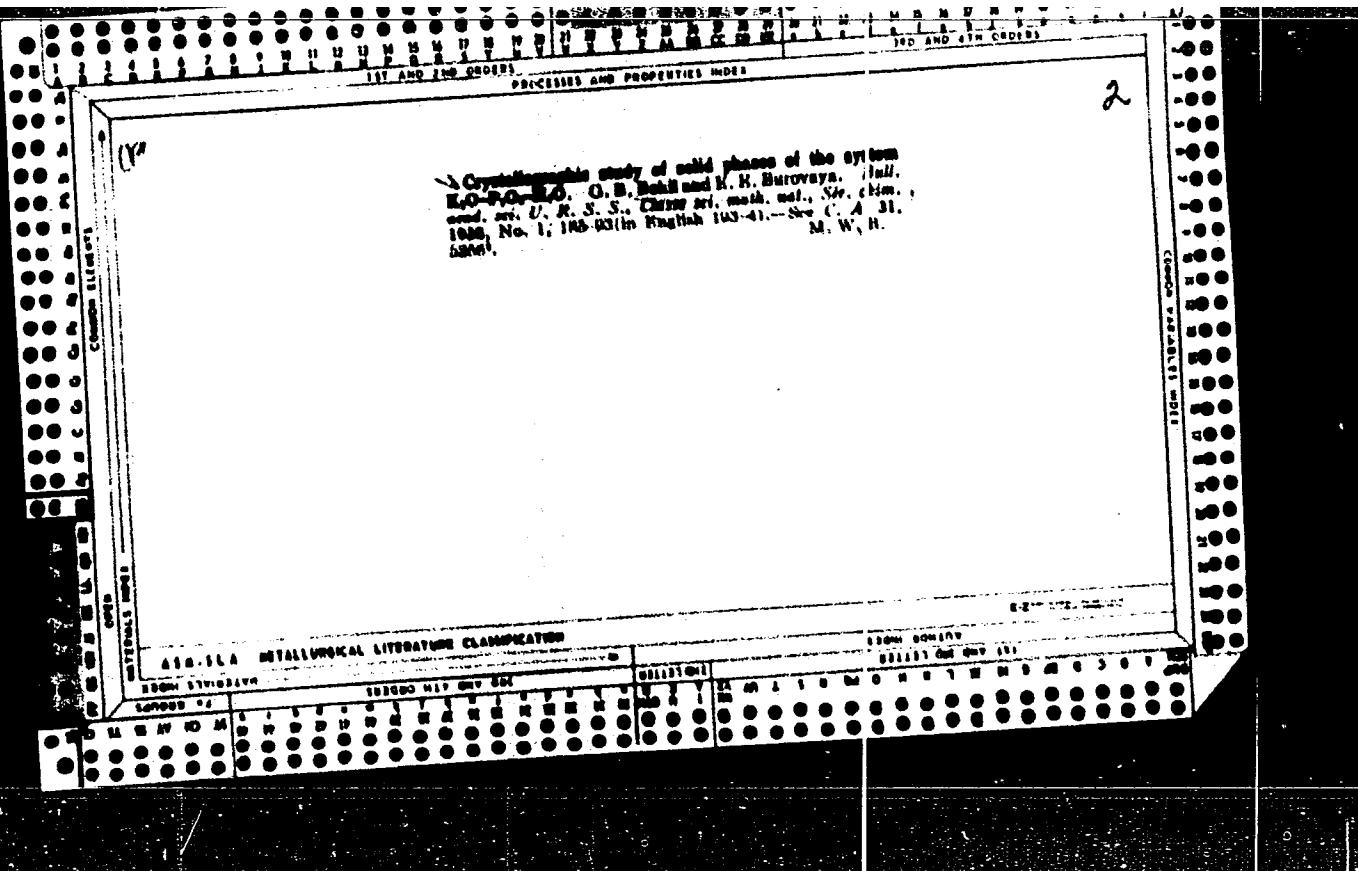


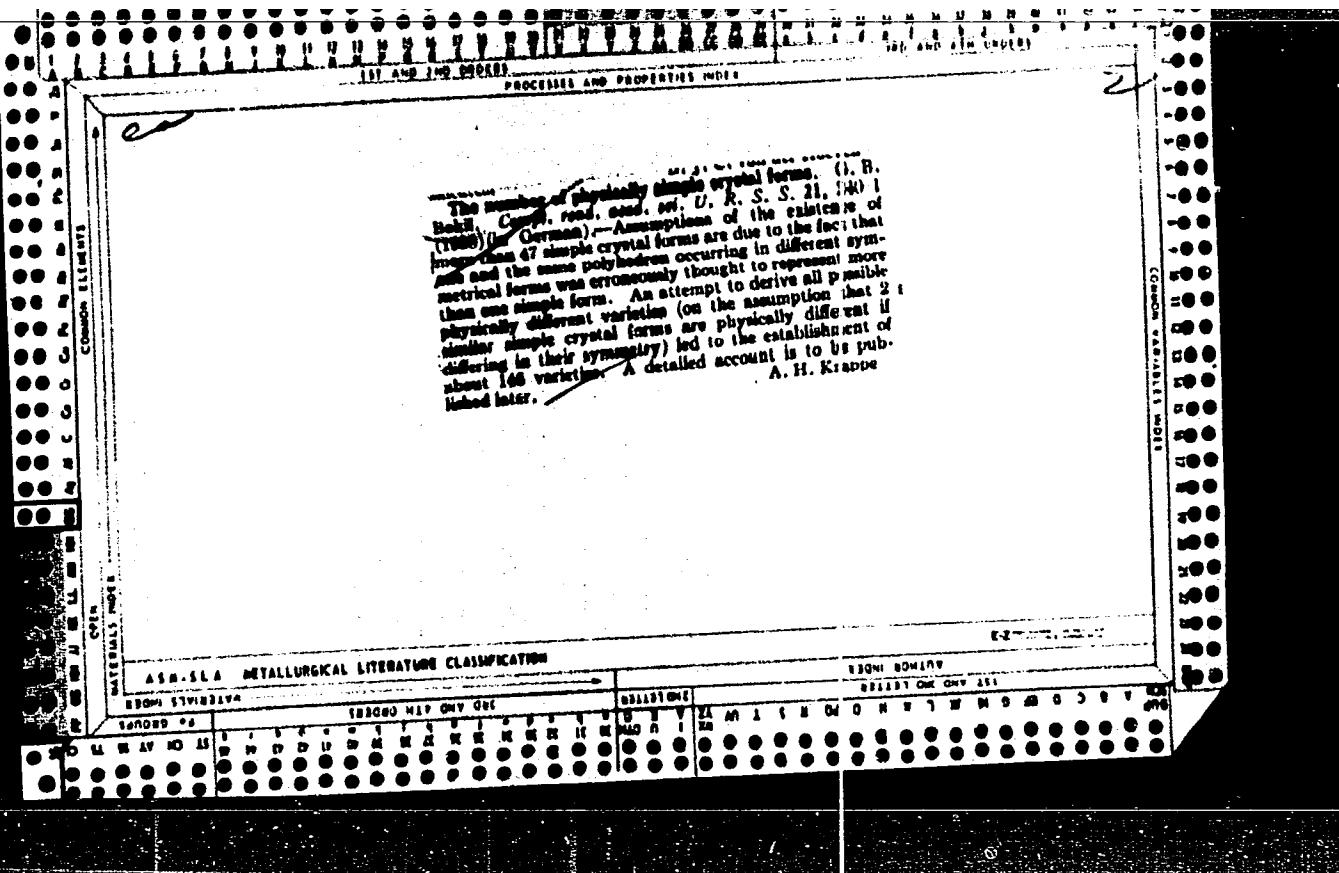










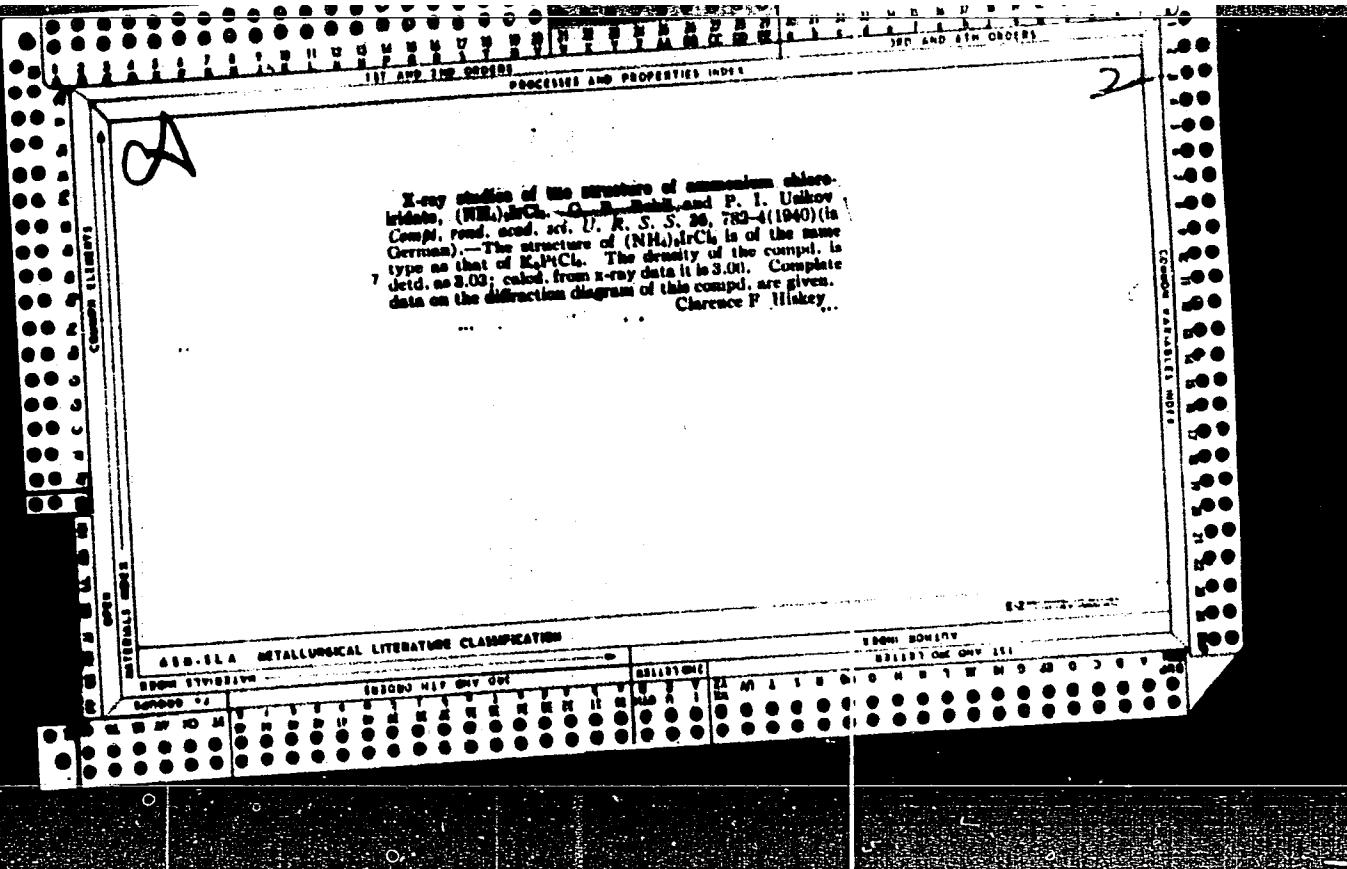


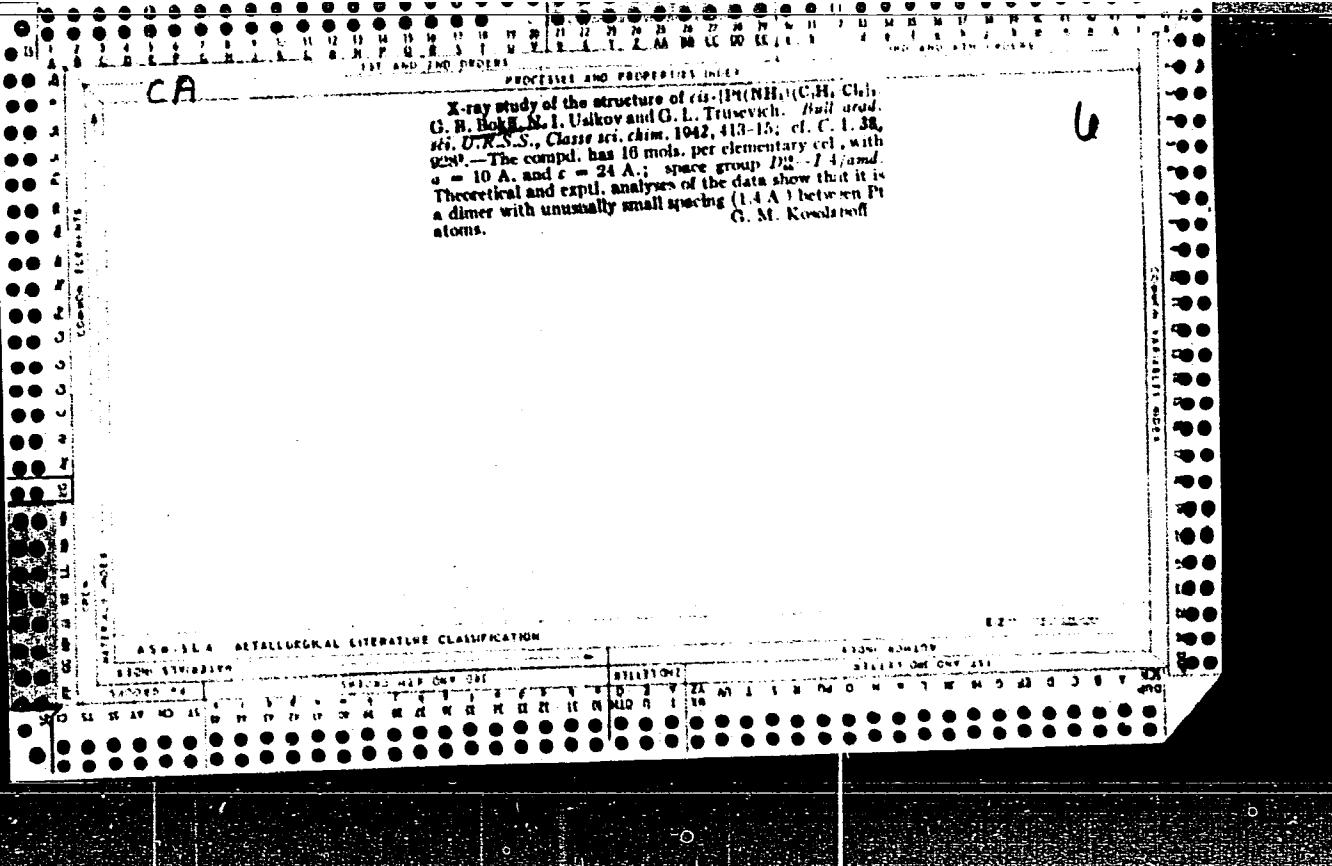
M
3
CRYSTALS OF SILICO CHROMIUM. N. N. KURNAKOV AND G. B. BOKY (COMPT. REND. (DOKL.) ACAD. SCI. U.R.S.S., 1940 (N.S.) 26 (4) 358-361)--(In English.) Some specimens of silico-chromium from the Cheliabinsk Ferr-Alloy Works, as well as some synthetic alloys of similar composition, were examined and hexagonal crystals were found in the range 33-39 wt.-% silicon, with hexagonal crystals on either side. The silico-chromium analysed about silicon 33-36, chromium 39-45, iron 22%--NBV

Institute of General & Inorganic Chem., AS

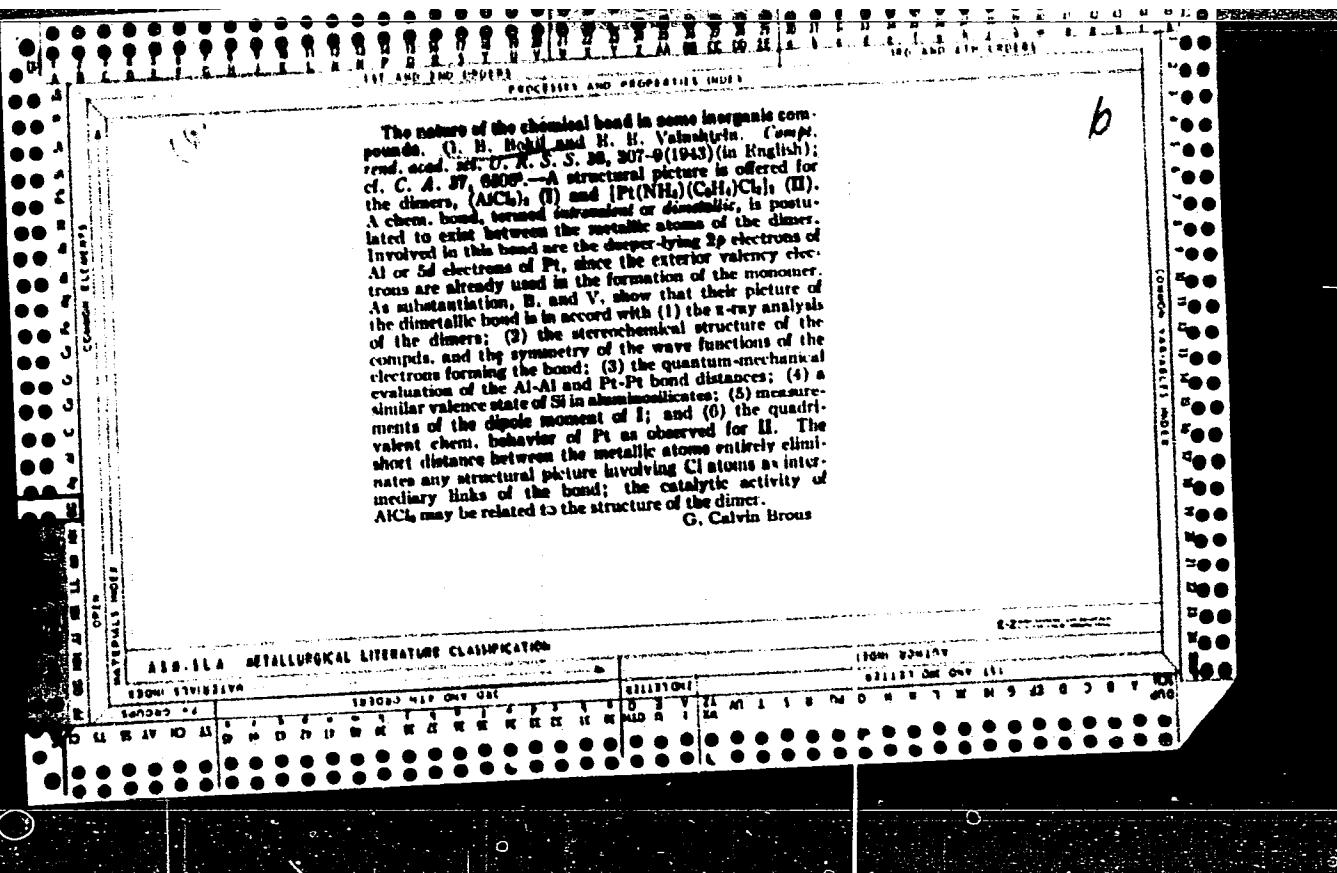
AIAA-METALLURGICAL LITERATURE CLASSIFICATION

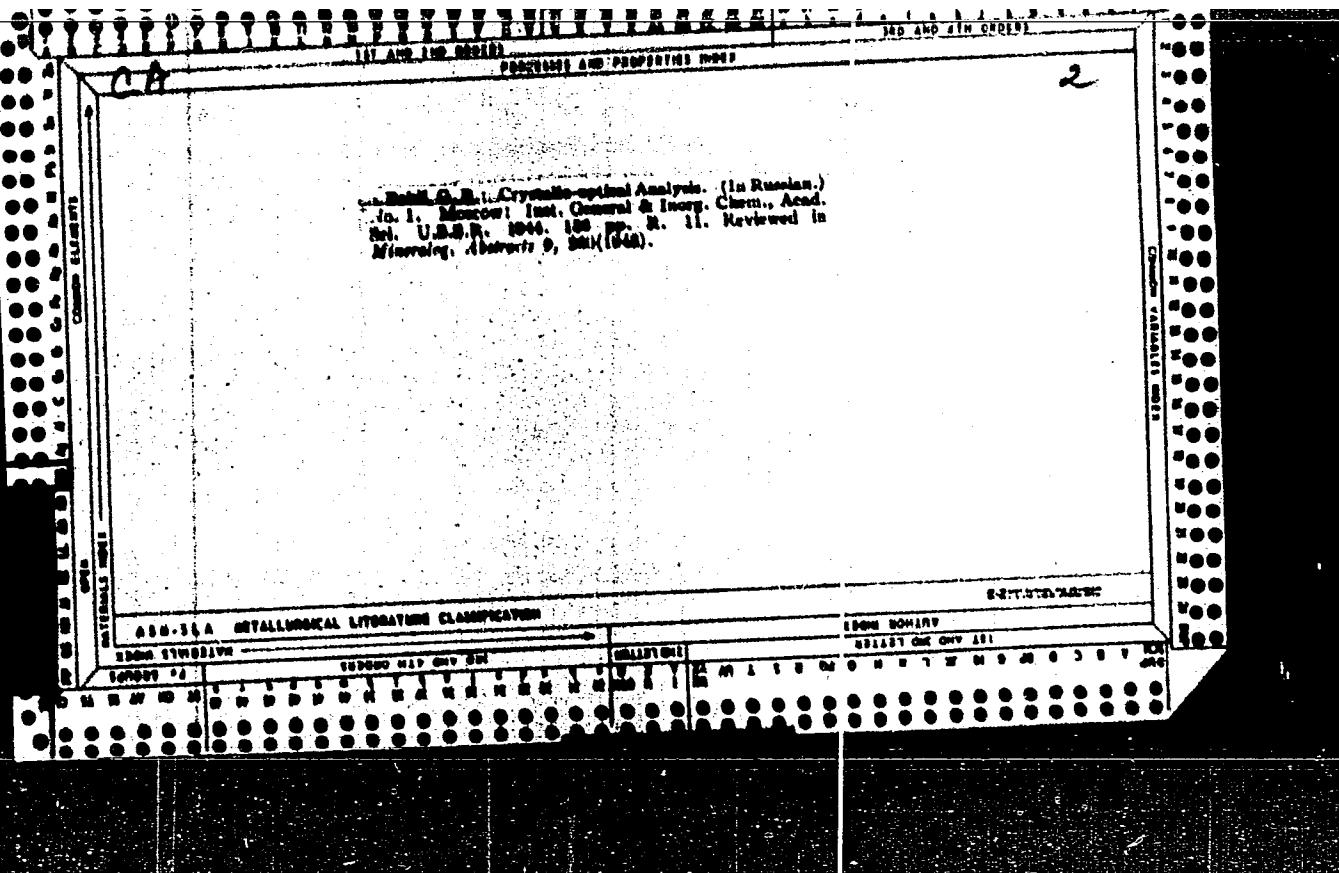
EDITION 12





Crystal chemistry of the Laves phases. G. H. Bohr and E. E. Vainstein (Compt. rend. Acad. Sci. U.R.S.S., 1943, **49**, 133-135; Vainstein (Compt. rend. Acad. Sci. U.R.S.S., Cl. Sci. Chem., 1943, 241-247).—The intermetallic compounds which do not fit into the scope of the classical ideas of valency (Laves phases) have the formula AB_6 or AB_2B' .—The structures of Laves phases are characterised by co-ordination no. (18, 6), but each B atom has six B atoms as its closest neighbours; this accounts for the fact that similar structures are not observed in binary compounds. These structures permit no variation in the ratio between the radii of the components; contact of univalent spheres occurs with $R_A : R_B = 1:3.8$ and the A-B distance $(a/8)\sqrt{11}$. The experimental value for $R_A : R_B$ lies between 1.11 and 1.33 (calc. val. 1.09-1.34). Contrary to the views of Schuize, polarisation plays an important role, although mutual polarization may sometimes be disguised by the influence of individual characters of the electronic structures of constituent atoms of the Laves phase. Elements participating in Laves phase formation are classified as (a) elements acting as A component only (Na, K, Ca, Ti, Ag, Pb, V, Cr, Mo, Re), (b) elements acting as B components only (Zn, Be, Cu, Ni, Al), and (c) those capable of acting as either A or B (Mn, Fe, Cu, Au, Bi, Mg). Laves phases should not be regarded as an independent group of intermetallic compounds, and the term should be applied only to a definite type of crystal structure. W. R. A.

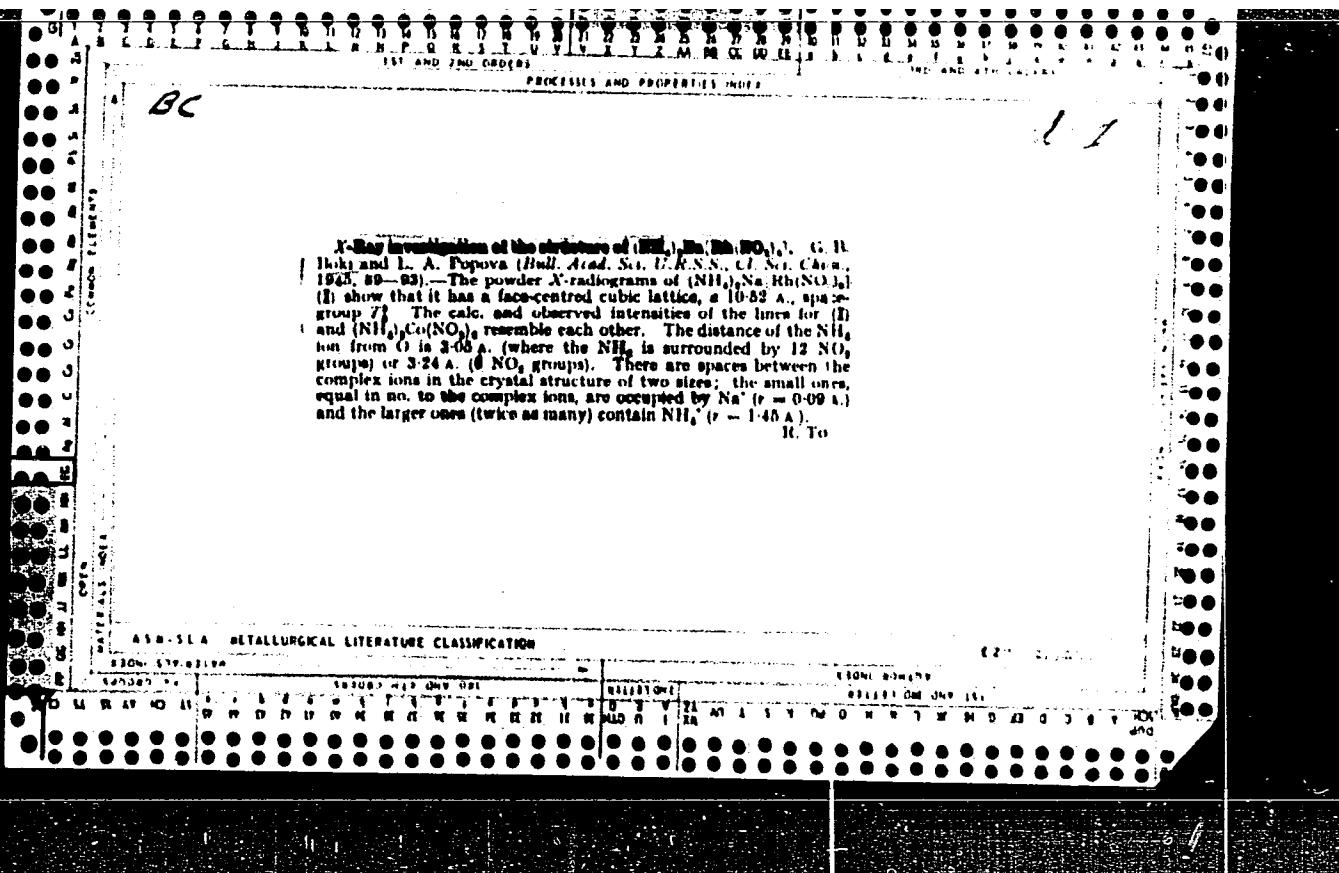




171 2 Motel 14. 7.

L. B.

Classification of the structures of complex compounds. G. B.
Bokh (Bull. Acad. Sci. U.R.S.S., Cl. Sci. Chim., 1944, 370-381).—
A classification of binary complex (inorg.) compounds is proposed.
The main distinction is into types having three-dimensional, planar
and linear complexes. Subdivision is based on, amongst other
factors, electronic structure and co-ordination no. The proposed
system, though not as widely applicable as that based on the prin-
ciple of closest packing, is deemed to be simpler and more descriptive.
V. B.



CA

1

Crystallographic investigation of the salt $\text{Ba}(\text{O}_2\text{P}_2\text{O}_7)_2 \cdot 3\text{H}_2\text{O}$. G. B. Reid, Trudy Inst. Kras. O., 34 WO, no. 2, 1957, No. 8, 19-20; Chern. Akad. Nauk S.S.R., 1957, No. 11, 19-20; Chern. Akad. Nauk S.S.R., 1957, No. 12, 681. The calcium crystals are readily attacked in the air. Compressive measurements showed triclinic symmetry and pronounced asymmetry: $a = 1.112(1)$; $b = 1.055$; $c = 0.917$; $\alpha = 94^\circ 15'$; $\beta = 93^\circ 46'$; $\gamma = 100^\circ 15'$. Optical properties: $n_\perp = 1.730$, $n_\parallel = 1.776$, $n_0 = 1.760$. Optical birefringence: $\Delta n = +0.03$. M. G. Moore.

C9

Crystallographic investigation of complex compounds of metals of the platinum group. V. G. B. Bodil and M. N. Lyasbenko. *Zhdy Inst. Krist.* 1947, No. 3, 31-8; cf. C.A. 43, 4535. Optical and geometric data, useful for identification, are reported for the crystals of 12 compounds. *cis-Diamminodinitroplatinum*, $[\text{Pt}(\text{NH}_3)_2\text{N}_2\text{O}_4]$, forms thin, pale-yellow needles 6×0.1 mm.; monoclinic symmetry; $a = 0.621$; $c = 1.630$; $\beta = 101^\circ 20'$; observed forms [001], [101], [110]. Twin formation is frequently observed in an immersed preparation; $n_1 = 1.700$, $n_2 = 1.742$, $n_a = 1.711$; $2V = 80^\circ$; $\omega/\delta = 42.5^\circ$. *cis-Ethylenediaminodichloroplatinum*, $[\text{Pt}(\text{C}_2\text{H}_4\text{N}_2\text{Cl}_2)]$, forms greenish-yellow 10×0.5 mm. showing tetragonal symmetry; $a/c = 1.2362$; observed forms [001], [101], [100]. Uniaxial, pos.; $n_1 > 1.785$, $n_2 = 1.722$. *cis-Ethylenediaminodibromoplatinum*, $[\text{Pt}(\text{C}_2\text{H}_4\text{N}_2\text{Br}_2)]$, forms tetragonal crystals which show only the forms [001] and [100]. Uniaxial, pos.; $n_1 > 1.700$, $n_2 = 1.770$. *Trisubcarbonylplatinum pyridinium monohydrate*, $\text{C}_2\text{H}_5\text{NH}_3^+[\text{Pt}(\text{CO})_3]^{\text{II}}\text{H}_2\text{O}$, forms orange needles 2×0.2 mm.; trigonal, rhombohedral; $a/c = 1.014$. Uniaxial, pos.; $n_1 > 1.745$, $n_2 = 1.688$. The crystals appear to be isomorphous with *tris(ethylenediaminopyridinium) monophosphate*, $[\text{Pt}(\text{C}_2\text{H}_4\text{N}_2\text{Cl}_2)]$. Because of the oblique extinction, the poorly formed needles were assumed to be triclinic. $n_1 > n_2 > 1.730$; $n_a = 1.688$; $2V = -45^\circ$.

trans-Pyridineaminodinitroplatinum, $[\text{Pt}(\text{C}_2\text{H}_4\text{N}_2\text{Cl}_2\text{O}_4)]$, long, fine, white crystals which show direct extinction. $n_1 = 1.750$, $n_2 = 1.696$, $n_a = 1.624$; $2V = -78^\circ$. *Ethylenediaminodimethylaminodinitrochloroplatinum*, $[\text{Pt}(\text{C}_2\text{H}_4\text{N}_2\text{CH}_2\text{NH}_2\text{N}_2\text{O}_4\text{Cl}]$. The fine, yellow platelets show no definite edges. $n_1 = 1.750$, $n_2 = 1.740$, $n_a = 1.670$; $2V = -40^\circ$ measured on the Fedorov stage. *cis-Pyridinediethylenedichloroplatinum*, $[\text{Pt}(\text{C}_2\text{H}_4\text{Cl}_2)^2\text{Cl}_2]$, $(n_1 = 1.80)$, $n_2 = 1.750$, $n_a = 1.700$; $2V = -78^\circ$. *cis-Pyridinediethylenedichloroplatinum*, $[\text{Pt}(\text{C}_2\text{H}_4\text{Cl}_2\text{NC}_2\text{H}_5\text{Cl}_2)]$, forms greenish-yellow, thin needles. $n_1 = 1.07$, $n_2 = 1.014$, $n_a = 1.002$; $2V = 24^\circ$. The orthorhombic system is indicated because of the direct extinction. *trans-Pyridineethylenedichloroplatinum*, $[\text{Pt}(\text{C}_2\text{H}_4\text{NC}_2\text{H}_5\text{Cl}_2)]$, to my fine, light-yellow needles with $n_1 = 1.785$, $n_2 = 1.608$. Direct extinction indicates orthorhombic symmetry. *cis-Dimethylethylenedichloroplatinum*, $[\text{Pt}(\text{C}_2\text{H}_4\text{Cl}_2\text{N}_2\text{Cl}_2)]$. Twin crystals are frequently found among the orthorhombic platelets, the twinning plane being at an angle of 20° to the extinction. $n_1 > 1.82$, $n_2 = 1.700$, $n_a = 1.601$. *trans-Diamminodichloroplatinum*, $[\text{Pt}(\text{Cl}(\text{NH}_3)_2)]$, forms a yellow powder in which fine rhombohedra or needles can be distinguished under the microscope. In the rhombohedra the extinction is symmetrical; in the needles it is oblique. They belong to the monoclinic system. $n_1 > 1.700$, $n_2 = 1.678$, $n_a = 1.700$; the angle between n_1 and the needle axis $\approx 19^\circ$. *cis* lies in the long diagonal of the rhombohedra. *trans*: *cis*

BOKIY, G. B.

USSR/Chemistry - Gerhardt's Salt
Chemistry - Analysis

May/Jun 1947

"Investigation of the Structure of Gerhardt's Salt by Harmonic Analysis,"
N. V. Belov, G. B. Bokiý, L. A. Popova, 10 pp

"Izv Ak Nauk Otd Khim Nauk" No 3

Determination of lattic constants, number of molecules in the unit cell,
parameters of atoms, interatomic distances, and distances between the
nearest atoms, for Gerhardt's salt ($\text{Pt}(\text{NH}_3)_2\text{Cl}_4$ -trans).

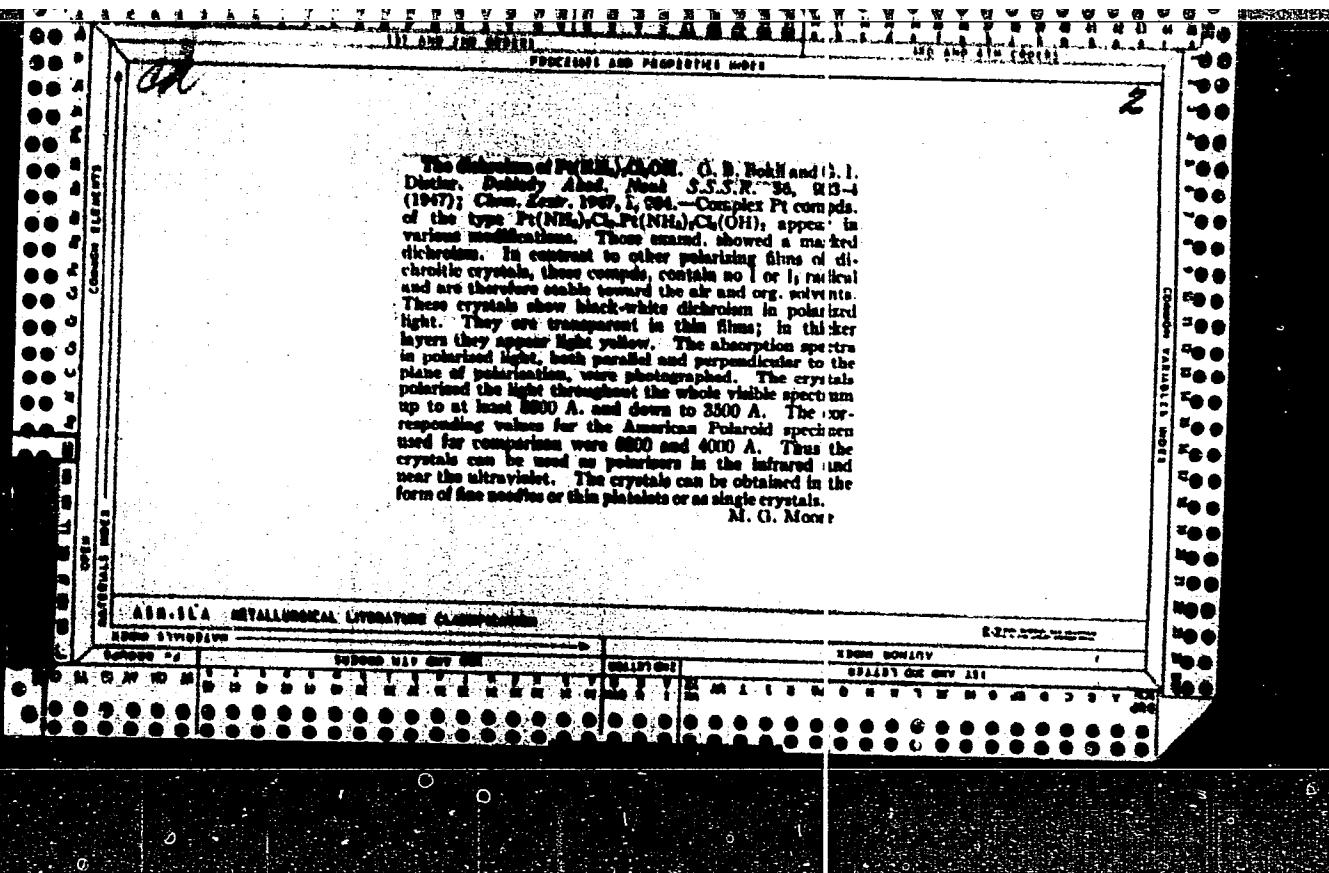
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THE N.S. KURNAKOV INST. OF GENERAL : INORGANIC CHEM., AS USSR

CA *b*

X-ray study of the structure of Gerard salt. N. V. Belov, V. B. Bokii, and G. I. Trusovich. Izvest. Akademii Nauk SSSR, Otdelenie Khimicheskikh Nauk, No. 1, 1965. Platiny i ikh sljedovatel'nye soderzhanii v rudyakh platina i iridija. Moshkov, A. M., Inst. Obshchey i Neorg. Khimii, Akad. Nauk SSSR. (Ann. sistem platina, Inst. Khim. Akad. Nauk SSSR) (Ann. system platinum, Inst. Chem. Acad. Sci. USSR). No. 20, 124-31 (1967); cf. Cox and Preston, J. Am. Chem. Soc., 79, 5200 (1957). Crystalllographic data for $[Pt(NH_3)_6]Cl_2$ are reported. M. Hinchliffe, J. Am. Chem. Soc., 79, 5200 (1957).

The diesters of Pt(NH₂)₂Cl₂O₄. O. B. Nohil and I. J. Dichter, *Doddy Abstr. Meet. S.S.R.*, 36, 913-4 (1947); *Chem. Zentral.* 1947, I, 684.—Complex Pt compds. of the type: Pt(NH₂)₂Cl₂Pt(NH₂)₂Cl₂(OH) appear in various modifications. These diesters showed a marked dichroism. In contrast to other polarizing films of dichroic crystals, these compds. contain no I or L radical and are therefore stable toward the air and org. solvents. These crystals show black-white dichroism in polarized light. They are transparent in thin films; in thicker layers they appear light yellow. The absorption spectra in polarised light, both parallel and perpendicular to the plane of polarization, were photographed. The crystals polarized the light throughout the whole visible spectrum up to at least 3800 Å. and down to 3500 Å. The corresponding values for the American Polaroid specimen used for comparison were 3800 and 4000 Å. Thus the crystals can be used as polarizers in the infrared and near the ultraviolet. The crystals can be obtained in the form of fine needles or thin platelets or as single crystals.



BOKIY, G.B.

Bokiy, G.V. - "A crystallographic study of an isomorphic cluster of astrakanite",
Vestnik Mosk. un-ta, 1948, No. 10, p. 175-80, - Bibliog: 5 items.

SO: U-3042, 11 March 1953, (letopis 'nykh Statey, No. 10, 1949).

BOKIY, G. B.

Bokiy, G. B. - "Electronic and atomic polarization of the complex compounds of a membrane," Vestnki Mosk. un-ta, 1948, No. 11, p. 155-64 ----
Bibliog: 14 items

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

CA

Crystallography of complex compounds. G. B.
British Journ. Silvano Plessey & Druggists Blago ed.
Xemal. Jour. Obozrev i Neorg. Khim., Akad. Nauk
S.S.R. No. 31, 190-200 (1948).—General survey of the
subject with particular reference to the work done by B.
M. Hora

CA

A possible new form of isomerism in inorganic compounds.
G. B. Bokil, Izvest. Sektora Platiny i Drugikh Metalov, Tsvet. Metal. i Neorg. Khim., Akad. Nauk S.S.R. No. 23, 90-3 (1949).—In the new form of isomerism, for which the name "orientational isomerism" is suggested, the isomers differ in the orientation of the additives with respect to each other as well as to the central atom. The little work done in this field is briefly reviewed. M. Hoseh

A 6

X-ray investigation of the structure of Gros salt, $[\text{Pt}(\text{NH}_3)_4\text{Cl}_2]\text{Cl}_2$. G. B. Bokil and M. A. Porai-Koshits, *Sovetsk. Plutiny i Drugikh Blagorod. Metal., Inst. Obshchego i Neorg. Khim., Akad. Nauk SSSR* No. 24, 32-33 (1949).—The crystal structure was determined by X-ray methods. The lattice constants are $a = 7.44 \text{ \AA}$ and $c = 7.08 \text{ \AA}$. There are 2 mols. of $[\text{Pt}(\text{NH}_3)_4\text{Cl}_2]\text{Cl}_2$ per unit cell. The space group $D_{4h} = P\bar{3}m$. Parameters of atoms are, in fractions of axis and in \text{\AA}, resp.: Pt (2) $x = y = z = 0$, $x = y = z = 0$; NH_3 (8) $x = y = 0.194$, $z = 0$, $x = y = 1.44$, $z = 0$; Cl_1 (4) $x = y = 0$, $z = 0.281$, $x = y = 0$, $z = 2.05$; Cl_2 (4) $x = 0.5$, $y = 0$, $z = 0.25$, $x = 3.72$, $y = 0$, $z = 2.00$. Within the complex $\text{Pt}(\text{NH}_3)_4\text{Cl}_2$ the distances between the atoms are $\text{Pt-NH}_3 = 2.03$, $\text{Pt-Cl} = 2.25$, $\text{NH}_3-\text{NH}_3 = 2.80$, and $\text{NH}_3-\text{Cl} = 3.04 \text{ \AA}$. The distances between atoms of adjacent complexes are $\text{NH}_3-\text{Cl} = 3.65$, $\text{Cl}-\text{Cl} = 3.48 \text{ \AA}$. The distances between atoms in the complex and ions in the outer sphere are: $\text{NH}_3-\text{Cl}^- = 3.30$, $\text{Cl}-\text{Cl}^- = 3.73 \text{ \AA}$. The Cl^- have a coordination no. of 12; the 8 NH_3 are closer than the 4 Cl . The smallest distance between Cl^- in the outer sphere is 3.99 \AA . M. Horsch

CA

Crystal structure of $[P(NH_3)_6]Cl_4$. G. B. Bolli and M. A. Poral-Kobits. *Doklady Akad. Nauk S.S.R.* R. 66, 337-9 (1949).—The yellow salt described by J. Gros (*Ann. chem. Pharm.*, 27, 249 (1838)) is uniaxial, $n_{\perp} > 1.85$, $n_{\parallel} = 1.73$. By Debye-Scherrer diagrams, the lattice is tetragonal, space group $I432$, $a = 4.7 \text{ mm}$, $c = 7.44 \pm 0.04$, $\epsilon = 7.94 \pm 0.04$ Å. The structure is derived from that of K_4PCl_6 (Swing and Pauling, *J. Am. Chem. Soc.* 75, 2063) through replacement, in each complex, of 4 coplanar Cl atoms by 4 NH₃ groups, and of the outer K⁺ ions by Cl⁻ ions; this gives the *Strukturite* type $J_4 = K_4O_4Cl_6$ (Strukturberichte 3, 122, 487 (1913-38)). The atom coordinates in the elementary cell are, in fractions of the axes (in Å. units): Pt(2) $x = y = z = 0$; NH₃(8) $x = y = -0.194$ (1.88), $z = 0$; CI (4) $x = y = 0$, $z = 0.281$ (2.23); Cl⁻ (4) $x = 0.5$ (3.72), $y = 0$, $z = 0$ (2.00). Distances (in Å.) within the complex, Pt-NH₃ = 2.43, Pt-Cl = 2.25, NH₃-NH₃ = 2.86, NH₃-Cl = 3.04. Distances between neighboring complexes, NH₃-NH₃ = 4.16, NH₃-N_{IL} = 4.84, NH₃-Cl = 3.65, Cl-Cl = 3.48. Distances between atoms of the complex and other ions, NH₃-Cl = 3.12, Cl-Cl = 3.73 Å. The coordination no. of Cl⁻ ions is 12, with 8 NH₃ groups nearer than 4 Cl atoms. The least distance between Cl⁻ ions is 3.99 Å. N. Thon

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206020019-1"

137 APPENDIX C PART II STRUCTURE AND PROPERTIES INDEX		138 APPENDIX C PART II STRUCTURE AND PROPERTIES INDEX
<p>C A</p> <p>Crystal structure of Chugayev's salt. (I. B. Bokil and L. A. Dugava. Doklady Akad. Nauk SSSR No. 77, 73 (1940). Crystals of $[Pt(NH_3)_5Cl]Cl_2 \cdot H_2O$ are uniaxial, pos., with very small birefringence, both axes lying between 1.718 and 1.722. The elementary cell is rhombohedral with $a_0 = 12.07 \pm 0.03$ Å, $\alpha = 116^\circ 12'$, which, in the hexagonal system, corresponds to $a = 20.00 \pm 0.03$, $c = 6.61 \pm 0.03$ Å. The no. of mols. in the elementary cell is 3 in the rhombohedral, and 9 for the primitive hexagonal cell. The space group is $C_{\bar{3}m}$. From Patterson projections on the xOy and xOz planes, the Pt atoms occupy the positions (in the hexagonal system) $x \approx 0$, $x \approx 0$, $2240 + (000, 1/3, 1/3, 1/3, 1/3)$, where $x = 0.120$. The atom parameters (position in parentheses) in axis fractions [in Å] are: Pt(96), $x = 3.481$ [0.243, 0.113]; Cl₁ outer (96), $x = 3.081$, $y = 3.244$ [0.2, 8, 0.251, 0.185]; Cl₁ inner (96), $x = 1.010$, $z = 1.170$ [0.050, -0.223]; (NH₃)₅(96), $x = 1.880$, $z = 1.532$ [0.092, 0.231]; (NH₃)₅(96), $x = 3.830$, $z = 1.390$ [0.172, 0.163]; (NH₃)₅(96), $x = 3.380$, $z = -1.532$ [0.105, 0.231]; (NH₃)₅(96), $x = 4.000$, $y = 6.270$, $z = 0$ [0.239, 0.257, 0]; H₂O (96), $x \sim 4.00$, $z \sim 0.08$ [~ 0.243, ~ 0.012]. Distances between atoms within the complex are: Pt - N = 2.00, Pt - Cl = 2.30, N - Cl = 2.82, N - Cl = 3.04 Å. The outer Cl₁⁻ (96) has the coordination no. 8; the distances between Cl₁⁻ and the N atoms lie within 3.26-3.30 Å. The outer Cl₁⁻ (96) has, with respect to NH₃ groups, the coordination no. 8; the distances Cl₁⁻ - N lie within 3.24-3.42 Å. If the coordination no. of the outer ions is calc'd. with respect to all inner-sphere addends, it is = 9, the 9th place being occupied by the inner Cl. The distance Cl₁⁻ - Cl = 3.78, i.e., is slightly less than Cl₁⁻ - Cl₁⁻ = 3.80 Å. N. Thom.</p>	2	
ABSTRACT METALLURGICAL LITERATURE CLASSIFICATION		
E-2770-10000		
139M SUBDIVISION	139M SUBDIVISION	139M SUBDIVISION
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Bokiy, G. B., ed.

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Novye issledovaniya po kristallo-grafii i kristallokhimi: (New studies on crystallography and crystalchemistry) Moskva, Izd-vo inostrannoy Lit-ry, 1950

v.

BOKIY, G. B. and POPOVA, L. A.

"X-Ray Examination of the Structure of Chugajev Salt," Iz. Sekt.
plat. i blag. met., No.25, 1950

BOKIY, G. B.

Science

Practical course in X-ray structure-analysis; Depushcheno Ministerstvom
vysshego obrazovaniia SSSR v kachestve uchebnogo posobiia dlia vysshikh
uchebnykh zavedenii. Moskva, Izd-vo Moskovskogo Universiteta, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1951 Unclassified.

Precise determination of the atomic coordinates in the
structure of Gerhardt's salt, trans-(NH₃)₂Cl₂Pt. G. N. Tishchenko,
M. A. Poral-Koshits, and G. N. Tishchenko. Izv. Akad.
Nauk S.S.R., Otdel. Khim. Nauk 1951, 481-6.—X-ray
methods were used to study the structure of
(NH₃)₂Cl₂Pt. The Pt-NH₃ distance is 2.00 Å; the Pt-Cl
distance is 2.30 Å.

Electrographic study and crystal chemistry of K_2PbCl_6 and K_2PbBr_6 . G. B. Bokii, B. K. Vlaschenko, and N. I. Kharlamova. (Izv. Akad. Nauk S.S.R., khim. i gorno-lesnaya promst., No. 1, p. 111, 1951.) — Preliminary details of the lattice constants for $K_2PbCl_6 \cdot H_2O$, based on Roentgen photographs. The following values were obtained: $a = 31.0$, $b = 8.1$, and $c = 4.54$. These data agree well with those obtained photoelectrically. The X-rayographic part of the work was stopped and the electrographic method used. For these data, micrographs of the order of $10^3 \times 10^4$ cm. diam., recorded on a cathodoluminescent screen, were used. During removal of salts of various sizes from the cathodoluminescent film in vacuum, without substantial structure changes, the mounting of the salts on a (0.15%) solution of agar in a petri dish was stopped at a temp. of 60° to obtain a sample of the salt under a hood placed under the cathodoluminescent film. By slowly drying the salt under a microscope, pictures can be obtained that correspond to a planigraphic picture. After one day, samples can be obtained as plaques from the monocrystalline. The periods of both $K_2PbCl_6 \cdot H_2O$ and $K_2PbBr_6 \cdot H_2O$ were determined by the methods of X-ray diffraction. The periods of the two salts are identical. The periods of the salts of the $K_2PbCl_6 \cdot H_2O$ complex were determined by the methods of X-ray diffraction. The structures of the salts were determined by the methods of X-ray diffraction. The structures of the salts were determined by the methods of X-ray diffraction.

BOKTY, G. B.

LC

PA 187T89

"The Crystalllochemistry of the Transitional Series
or the Ammoniates of Quadrivalent Platinum," G. B.
Bokty, Inst of Gen and Inorg Chem, Acad Sci USSR
"Iz Ak Nauk SSSR, Ser Fiz" vol XV, No 2, pp 170-
175

LC

Gives pictures and tables of 10 complex chloroam-
moniates of quadrivalent platinum, as the result
of crystallographic and structural investigations.
Steric diagrams show positions of atoms (Cl, Pt,
N, H, O, K). Bokty's lecture was ~~attended by~~ by
S. Zhdanov Moscow, and N. V. Belov, Moscow.

187T89

USSR/Physics - Crystallography, X-ray Mar/Apr 51
(Contd)

Submitted at 3d All-Union Conference on Use of
X-rays in Study of Materials held 19 - 24 Jun 50
in Leningrad.

187T89

BOKIY, G. B.

Science

Academician Ye. S. Fedorov, founder of contemporary crystallography Moskva,
Znanie, 1952.

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

ECKIY, G. B.

USSR/Geophysics - Crystallography

Sep 52

"New Method of Determining the Structure of Complex Compounds," G. B. Bokiy and S. S. Batsanov, Chair of Crystallography and Crystallochemistry

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 6,
pp 89-94

Second in a series of articles. The first article (ibid No 2, 1952) was devoted to the crystallo-optic soln of the geometric configuration of complex compds. The author presents soln of interatomic distances from refractions of complex ions.

275T66

BOKIY, G. B.

PA 243T79

USSR/Geophysics - Crystallography, History Oct 52

"From the History of Russian Crystallography: Publishing of Ye. S. Fedorov's Scientific Works," I. I. Shafranovskiy and G. B. Bokiy, Chair of Crystallography and Crystallochemistry

"Vest Moskov U, Ser Fiz-Mat i Vest Nauk" No 7,
pp 129-147

Continuation of authors' works on history of Russian crystallography. Purpose of article is to publicize Ye. S. Fedorov's works in commemoration of the 100th anniversary of his birth.

243T79

BOKIY, B. G.

BOKIY, B. G.

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Inorganic Chemistry

1/2

New method for the determination of the structure of
complex compounds. G. I. Bokil and S. S. Tarkov.
Zhur. Nauk. Univ. Tomsk. Ser. Fiz. Mat. i Estestv.
Nauk. No. 1, 147-53 (1952); cf. ibid. 1948, No. 11.—A
crystal-optic method is given for the distinction of cis and
trans configurations in complex salts, e.g. Cleve's and Ger-
ard's salts, and related compds. For $\lambda = \text{NaD}$ and $\lambda = \infty$,
the ionic refractions in crystals are computed from the

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3

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G. B.
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Lorentz-Lorentz equation. The ionic refractions in the gaseous state and in crystals show great differences. For a series of crystalline hydrates, the mol. refraction of the water of crystal could also be computed, namely 3.28 while in liquid state H_2O has for $\lambda = \infty$ the mol. refraction 3.59, and in the vapor state 3.66. In the chemistry of complex Pt compds., the introduction of the refraction value for gaseous H_2O brings about erroneous results, because crystal hydrates of this group are usually low in H_2O . For the following complex salts of Pt^{IV} the refractive indexes have been detd. for C, D, and F light in the visible range, and with Cauchy's equation extrapolation to $\lambda = \infty$ was carried out to calc. R_{∞} , and the ionic fractions of the complex anions: [Pt(NH₃)₄]Cl₄.H₂O; trans-[Pt(NH₃)₂Cl]₂Cl; trans-[Pt(NH₃)₂Cl]₂H₂O; cis-Pt(NH₃)₂Cl₄; trans-Pt(NH₃)₂Cl₄; trans-K₂Pt(NO₂)₂Cl₄; cis-K₂Pt(NO₂)₂Cl₄; trans-Pt(NH₃)₂Cl₄; [Pt(NH₃)₂(NO₂)₂]₂.H₂O; (NH₃)₂PtCl₆. The calc'd. ionic refractions for the complex anions, and $\lambda = \infty$ are: NH₃-Pt^{IV}-NH₃ (12.18); NH₃-Pt^{IV}-Cl (15.60); Cl-Pt^{IV}-Cl (16.93); NO₂-Pt^{IV}-NO₂ (21.85); NO₂-Pt^{IV}-Cl (20.72); NO₂-Pt^{IV}-NH₃ (17.11). The previous calcns. of Yakunin (C.A. 44, 10477) of 1' same and other complex anion refractions (for $\lambda = NaD$) are discussed and corrected. Geometrical isomers can be distinguished by the R_{∞} and R_{∞}^2 values calcd., e.g., from crystallooptical measurements. For the detsns. of the constitution of the complex salts of Pt^{IV} it is only necessary to det. the refractive indexes for C, D, and F light, to extrapolate to ($n_{\infty} = (a_1 n_0 - a_2 n_D + a_3 n_F)/(a_1 - a_2 - a_3)$) and to calc. the mol. refraction. From this value, the Pajans-Joos-Pauling data of cationic refraction are used to det. the R values of the complex anion, and the values $a = R_d/M$; $n^2 = (1 + 2a)/(1 - a)$, and the differences Δa and Δa^2 . The latter values show for $\lambda = \infty$ a much better agreement with the exptl. detsns. in a special case of bismuth, than the same difference detd. for $\lambda =$

W. Bit 4

BOKIY, G. B.; SHAFRANOVSKII, I. I.

Scientists

Some forgotten articles of E.S. Fedorov. Zap. Vses. min. ch., 81, No. 3, 1952

Monthly List of Russian Accessions, Library of
Congress, December 1952. Unclassified

BOKIY, G. B.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, Nt. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Bokiy, G. B. Shafranovskiy I. I.	Works on the Scientific achievements, life, and public activities of Ye. S. Fedorov	Moscow State University imeni M. V. Lomonosov

SO: W-30604, 7 July 1954

BOKIY, G. B.

Chemical Structure

Determination of the structure and structural formulas of organic compounds based on crystallo-chemical data. Izv. AN SSSR. Otd. khim. nauk No. 1, 1953.

Demonstrates that the employment of new exptl data, derived from the measurement of interatomic distances in mols of org compds, presents the possibility of characterizing and compd by means of single and unique structural formula. Ascertained that the reciprocal effect of atoms can substantially change the interatomic distances in mols; consequently, in detg the structural formula, this effect has to be taken into account. Further shows that, to represent structural formulas which are in agreement with the symmetry of mols in aromatic compds (with condensed benzene nuclei), the existence not only of simple and double bonds but particularly of intermediate or sesqui-bonds must be considered.

258P2

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

BOKIY, G. B.

Chemical Abst.
Vol. 48
Apr. 10, 1954
General and Physical Chemistry

Structure of the complex ion $(Co(NO_3)_4(NH_3)_2)^-$. G. B. Bokil and R. A. Gillingskaya. Izv. Akad. Nauk S.S.R. Otdel. Khim. Nauk 1953, 238-41; J. Wells, C.A. 51, 1670. The cryst. salts $Ag(Co(NO_3)_4(NH_3)_2)$, $K(Co(NO_3)_4(NH_3)_2)$, and $NH_4(Co(NO_3)_4(NH_3)_2)$ were examd. by x-ray diffraction in order to det. the configuration of the anion. The interat. distances Co-N (amminia), Co-N (nitro), N-O, and O-O are 1.95 ± 0.03 , 1.06 ± 0.03 , 1.25 ± 0.03 , and 2.15 ± 0.03 Å., resp. The anion has the trans configuration. J. W. Lowerberg, Jr.

Inat. Gen.+Inorganic Chem. im. Kurnakov. A.S. USSR

BOKIYA, PROF G. B.

USSR/Physics - Crystallography

Apr 53

"Review of 'New Investigations in Crystallography and Crystallochemistry,'" (V. A. Frank-Kamenetskiy, reviewer)

Usp Fiz Nauk, Vol 49, No 4, pp 628-630

Reviewed book presents abridged translations fo foreign articles processed by G. D. Vigdorovich, A. S. Anishkina, B. V. Nenart, T. L. Khotsyanova, V. M. Koshin, N. D. Katsenelenbaum, Yu. G. Zagalskiy, and N. A. Pobedimskaya, with preface by Prof. G. B. Bokiya the editor.

267192

DOKIY, G.B.

X-ray analysis of $K_3[Fe(NO_2)_6Cl]$ and $K_3[Fe(NO_2)_6Br]$.
C. E. LOONT AND R. A. GILLIGAN. *J. Am. Chem. Soc.*, 55, 673 (1933); *J. Am. Chem. Soc.*, 59, 6140 (1937).
 $K_3[Fe(NO_2)_6Cl]$ (I) and $K_3[Fe(NO_2)_6Br]$ (II) were prepared by a method described earlier (Dutet, Z. A., *J. Am. Chem. Soc.*, 23, 495 (1891)). Both compds. belong to the monoclinic system and for I: $a = 1.020$; $b = 0.788$ and $\beta = 112^\circ 41'$; for II: $a = 0.938$; $b = 0.774$ and $\beta = 120^\circ 25'$. The Fe atoms occupy the positions (000, 1/3, 1/4) and are at the centers. Therefore, the Cl (or Br) which belongs to a single layer are trans to one another. The interatomic distances are given. The form of the complex is close to the "normal" (B_3 , $loc. cit.$) form.
J. Roy. Soc. Chem. Leach

BOKIY, G.B.

USSR.

The determination of the structural type of $KCo(NO_3)_4 \cdot (NH_3)_4$, G. B. Bokil and E. A. Gilinskaya. *Doklady Akad. Nauk S.S.R.* 88, 461-4 (1953); *Science Abstr.* 56A, 943 (1953); cf. *C.A.* 48, 3730f.—The K, NH₃, and Tl salts with the ion $[Co(NO_3)_4(NH_3)_4]^-$ (known previously to be isomorphous) were found to have the complex ion in the trans configuration. The K salt has the space group $P\bar{3}21$, with dimensions 11.27, 12.70, and 6.72 Å. (?) and the NH₃ salt has dimensions 11.43, 13.82, and 6.73 Å. (?) with the same space group. Comparison of observed and calcd. as indicated the trans configuration. From Patterson projections the parameters (x, y, z) of the heavy atoms were found to be Co (0.161, 0.187, 0.250) and K (0.004, 0.031, 0.250). The positions of the light atoms were found by packing considerations, refinement of projections and by comparison with the Ag salt, known to be trans but not isomorphous. R.D.H.

BOKIY, G.B.

System of atomic radii of metals. Doklady Akad. Nauk S.S.R. 89, 459-62
'53. (MLRA 6:3)

(CA 47 no.22:11825 '53)

(PA 56 no. 671:7845 '53)

(AERB-Trans- 11/3/5/417)

BOKIY, G. B.

USSR/Chemistry - Oxidants, Peroxidic
Compounds

1 Aug 53

"Crystal-Chemical Investigation of the Compound
 $\text{Ag}_7\text{NO}_{11}$," G. B. Bokiy, N. N. Smirnova, Inst of Gen
and Inorg Chem im N. S. Kurnakov, Acad Sci USSR

DAN SSSR, Vol 91, No 4, pp 821-823.

On the basis of X-ray data, assumes that compd contains
peroxide ions. Presented by Acad S. I. Vol'fkovich
26 May 53.

2725

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
General and Physical Chemistry

Refraction of the hydrogen bond. C. B. Rokin and S. I. Battaglia. *Deblady Akad. Nauk S.S.R.* 62, 117-80 (1953). Comparison of refractions of NH_4 salts with corresponding K salts shows that the NH_4 salts (such as NH_4Cl , NH_4Br , and NH_4I) show a constantly greater refractive difference than the K salts (such as KCl , KBr , and KI). The difference is 1.07 for chloride, 0.00 for bromide, and 0.02 for iodide. The values of refraction at infinite wavelength were extrapolated according to Wulff (C.A. 21, 4140). Similarly the nitrates, perchlorates, sulfates, and selenates of K and NH_4 show a similar, though greater, difference: 1.62, 1.61, 1.78, and 1.81, resp. The increment is ascribed to H-bond formation. In the latter group the link $\text{NH}_4^+ - \text{O}^- = 1.68 - 0.98 = 0.70$ units. Division by the no. of H atoms shows that increment of refraction of H bond $\text{N}-\text{O}^-$ is 0.171 units. Cf. Palermi and Curri (C.A. 43, 6042). G. M. Kosolapoff

BOKIY, G. B.

Vvedeniye v kristallokhimiyu (Introduction to crystallochemistry) Moskva, Izd-vo
Moskovskogo Universiteta, 1954. 489 p. illus., diagrs., tables.

SO: N/5
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BOKIY, G. B.

USSR/Physics - Crystallography of Sulphides

FD-1251

Card 1/1 : Pub. 129-13/25

Author : Bokiy, G. B.; and Pobedimskaya, Ye. A.

Title : Crystallochemistry of Sulphides

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 1, 99-106,
Feb 1954

Abstract : Describe the crystallography of the simple sulphides of monovalent elements (and their closest analogs); also that of the structure of the sulphides of alkali metals. Note the polymorphism of the sulphides of monovalent copper and silver. Depict the crystalline structures of cubic modifications of copper and silver sulphides (and their analogs). Discuss the crystalline structure of noncubic minerals and nonminerals (compounds of monovalent metals with sulfur, selenium and tellurium). Compute the solid solutions of the sulfides of monovalent copper, silver, gold and thallium (also the selenides). Thank N. L. Katsenelenbaum for the lattice constants.

Institution : Chair of Crystallography and Crystallochemistry

Submitted : July 10, 1953

USSR/Chemistry - Molecules, History

FD-675

Card 1/1 : Pub. 129 - 10/25

Author : Bokiy, G. B.; and Batsanov, S. S.

Title : Problem of the concept of "molecule"

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, Vol. 9, No. 3,
71-74, May 1954

Abstract : A historical outline concerning the concept of "molecule."
Discuss the various terms "molecule," "particles," "corpuscles,"
etc. and their definitions.

Institution : Chair of Crystallography and Crystalllochemistry

Submitted : February 4, 1954

USSR, G. S.

USSR/Chemistry - Physical

FD-1147

Card 1/1 Pub. 129-11/23

Author : Bokiy, G. V.; Batsanov, S. S.

Title : A new method for determining the structure of complex compounds (Third article)

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 7, 87-96, Oct 1954

Abstract : Work deals with the refractometric determination of the geometric configuration of complex cobalt compounds. Six tables; graphs. Twenty-eight references (nine USSR)

Institution : Chair of Crystallography and Crystal Chemistry

Submitted : March 31, 1954

USSR/Chemistry - Inorganic

FD-1608

Card 1/1 : Pub. 129-11/23

Author : Bokiy, G. B.; Lyashenko, M. N.; Batsanov, S. S.

Title : A new method for determining the structure of complex compounds

Periodical : Vest. Mosk. un., Ser fizikomat. i yest. nauk, 9, No 8, 75-78,
Dec 1954

Abstract : Determined the geometric configuration of the cis and transisomers
of Pt(NH₃)₂Cl₂ and the transisomer of Pt(NH₃)₂(NO₂)₂ by comparing
the molecular refraction as calculated by the Lorentz and Lorenz
formula with the experimentally determined values. The refractive
indices used were values obtained by extrapolating to infinite wave-
length. Three tables. Seven references (six USSR).

Institution : Chair of Crystallography and Crystal Chemistry, Geology Faculty

Submitted : March 31, 1954