

PROCESSED AND REPRODUCED FROM

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Iodometric determination of the sulfate ion. G. P. Luchinskii and V. S. Suzdaleva. *Zusatzblatt Lab. 10*, 263-5(1941).—An adaptation of the Hinman method (*Am. J. Sci. and Arts* 114, 478(1877)) except that an aq. suspension of BaCrO_4 is used as reagent in place of a HCl soln. of BaCrO_4 . The suspension is added to the aq. soln. which is neutral to phenolphthalein, the soln. is heated nearly to boiling and half as much EtOH is added. The ppt. of BaSO_4 + excess BaSO_4 is washed with 30% EtOH and the filtrate is titrated with 0.1 N I soln. Ions which oxidize $\text{S}_2\text{O}_3^{2-}$ or which form insol. Ba salts interfere.

H. Z. Kamich

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

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

Chlorosulfonate chlorides V. Chlorosulfonate chlorides of butan and alloum (A. A. Bochtinskii, *Zh. Obshch. Khim.* (U. S. S. R.) 11, 851 (1941), 7: 1-33, 5312).—Measured amts. of BCl₃ and SiCl₄ are mixed in a mixt. of solid CO₂ and acetone and then measured amts. of uncooled liquid SO₂ are added; white flaky or like ppt. appear immediately. Excess of unchanged BCl₃ and SiCl₄ are immediately drawn from the containers and the white ppt. in the containers is washed with pure and dry pentane. H₂SO₄ was not found in the liquids removed by suction after their decompn. with H₂O. When the products were taken from the vessel and brought to room temp., considerable decompn. with sepn. of liquid was observed. The vessel contg. the B compound was filled with H₂O, transferred to a measuring flask, and made up to the mark with hot water. In the soln. were detd. H₂BO₃, Cl and SO₂. In the soln. contg. the Si compd. were detd. SiO₂, Cl and SO₂. The solid substances had compn. corresponding to BCl₃·2SO₂ and SiCl₄·SO₂, resp. 5 references. A. A. Bochtinskii

ASM - 11 A METALLURGICAL LITERATURE CLASSIFICATION

SUNMI 277-0211

LUCHINSKIY, G.P.

VEITSER, IU. I., and G. P. LUCHINSKIY.

Maskiruiushchie dymy. Moskva, Gos. nauch.-tekhn. izd-vo khim.lit-ry, 1947. 201 p., illus.

Bibliography: p. 195-196.

Title tr.: Smoke screens.

UG47.7.V4

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

In reference to the paper "Vapor pressure over a mixture of chlorosulfonic acid with sulfuric anhydride." G. P. Luchinskii, *Zhur. Priklad. Khim.* 21, 206 (1948). The work of Kurovskaya et al. (1951) is cited. Absorption of SO₂ and ClSO₃H in aqueous solutions gives low results. Luchinskii, loc. cit. 206. The method used to calculate the partial pressure from the total pressure is dubious.
I. Benowitz

KUZ'MINYKH, I.N., professor; LUCHINSKIY, G.P., redaktor; KORNYEVA, V.I.
tekhnikheskiy redaktor.

[Technology of sulfuric acid] Tekhnologiya sernoi kisloty.
Moskva, Gos.nauchno-tekhn.isd-vo khim.lit-ry, 1955. 227 p.
(MLRA 9:1)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni
D.I.Mendeleeva.
(Sulfuric acid)

SERPIONOVA, Yelizaveta Nikolayevna; LUGHINSKIY, G.P., redaktor; SHEPAK, Ye.G.,
tekhnicheskiy redaktor

[Industrial adsorption of gases and vapors] Promyshlennaya adsorbtsiya
gazov i parov. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1956.
190 p. (MIRA 10:1)

(Gases) (Vapors) (Adsorption)

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical
Analysis. Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26163

Author : G.P. Luchinskiy

Title : Physico-Chemical Study of System $H_2O - SO_3$. I. Equilibrium
of Vapor and Liquid Phases in System $H_2O - SO_3$.

Orig Pub : Zh. fiz. khimii, 1956, 30, No 6, 1207-1222

Abstract : The vapor pressure of more than 30 mixtures of the system $H_2O - SO_3$ was measured at the temperature range from 20 to 200° and at their boiling points. The partial pressures of SO_3 , water and H_2SO_4 were computed from the experimental data (taking into consideration the dissociation of H_2SO_4 vapors into H_2O and SO_3 at high temperatures). The formulae expressing the dependence of the complete and partial pressures on the temperature at every composition of the liquid phase are given. The polythermic diagram of boiling of the system is plotted, the dependence of the vapor composition

Card : 1/2

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical B-8
Analysis. Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26163

of the composition of the boiling liquid is shown graphically. The vapors above liquids containing up to 85% of H_2SO_4 consist only of water in the system under study, and the vapors above liquids containing less than 35% of free SO_3 consist only of SO_3 ; in the intermediate region, the vapors above the mixtures contain H_2SO_4 together with water or SO_3 . The vapor contains (in mol%) 22.6 of H_2SO_4 , 0.8 of H_2 and 76.6 of SO_3 at the boiling point of the azeotropic mixture (338.8°) consists of 41.3 of H_2SO_4 , 30.7 of H_2O and 28.0 of SO_3 . Considering the obtained results, the author is of the opinion that the concentration of diluted sulfuric acid to more than 93% of H_2SO_4 is not expeditious, because it should result in considerable losses of the acid. It is not recommended to use acid stronger than 96% for drying gases in order to avoid their contamination with H_2SO_4 vapor (the 94% acid is indicated as the most suitable).

Card : 2/2

LUCHINSKIY, G.P.

LUCHINSKIY, G.P., red.; LUR'YE, M.S., tekhn.red.

[Boron; transactions of a conference on the chemistry of boron and its compounds] Bor; trudy konferentsii po khimii bora i ego soedinenii. Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1958. 189 p. (MIRA 12:4)

1. Vsesoyuznoye soveshchaniye po khimii bora, 1955.
(Boron)

VOL'FKOVICH, S.I., akademik; ROGOVIN, Z.A.; RUDENKO, Yu.P.; SHMANENKOV, I.V.; AVRAMOVA, N.S., red.; LUCHINSKIY, G.P., red.; ZAZUL'SKAYA, V.F., tekhn.red.; POGUDKIN, P.V., tekhn.red.

[General chemical technology; in two volumes] Obshchaia khimicheskaya tekhnologiya; v dvukh tomakh. Pod red. S.I.Vol'fkovicha. Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, Vol.2. 1959. 848 p. (MIRA 12:9)

(Chemistry, Technical)

5 (4)

AUTHOR:

Luchinskiy, G. P.

SOV/76-33-6-17/44

TITLE:

Physico-chemical Investigations of the System $H_2O - SO_3$
(Fizikokhimicheskoye issledovaniye sistemy $H_2O - SO_3$).
II. Reaction Heat of the Components With the Liquid Phase of
Varying Composition in the System $H_2O - SO_3$ (II. Teploty
vzaimodeystviya komponentov s zhidkoy fazoy razlichnogo
sostava v sisteme $H_2O - SO_3$)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6,
pp 1275-1279 (USSR)

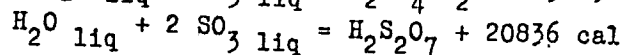
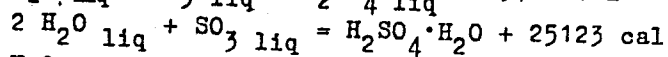
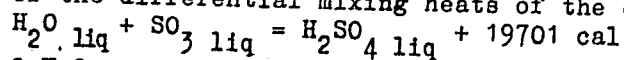
ABSTRACT:

On the strength of investigations carried out in a previous paper (Ref 1) concerning the temperature function of vapor tension in the system $H_2O - SO_3$, the differential evaporation heat of H_2O , H_2SO_4 and SO_3 is determined from the corresponding mixtures, and therefrom the differential mixing heat of these three components with mixtures of varying composition. The integral values may be derived from the results obtained. Results are tabulated (Tables 1, 2). The evaporation heat for

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Physico-chemical Investigations of the System SOV/76-33-6-17/44
 $H_2O - SO_3$. II. Reaction Heat of the Components With the Liquid Phase of
 Varying Composition in the System $H_2O - SO_3$

water amounts to 568.5 cal/g, for anhydrous H_2SO_4 171.5 cal/g and for SO_3 128.6 cal/g. The differential mixing heat of H_2O with H_2SO_4 is specified as being of 630.0 cal/g and that of SO_3 with H_2SO_4 as being of 104.3 cal/g. The formation heats (FH) of the compounds were computed as the sum of the values of the differential mixing heats of the components:



whereas the corresponding (FH) values determined from the elements are the following: 192.27 kcal/Mol, 266.06 kcal/Mol and 297.61 kcal/Mol. There are 3 tables and 11 references, 3 of which are Soviet.

Card 2/3

Physico-chemical Investigations of the System SOV/76-33-6-17/44
H₂O - SO₃. II. Reaction Heat of the Components With the Liquid Phase of
Varying Composition in the System H₂O - SO₃

SUBMITTED: November 2, 1957

Card 3/3

LUCHINSKIY, G.P., doktor khimicheskikh nauk; TOLSTOV, K.S., kand.tekhnicheskikh nauk; KOROLEV, P.A.

Use of hexachloran in insecticidal fumigants. Khim.prom. no.4:235-
237 Ap '61. (MIRA 14:4)

(Cyclohexane)

(Insecticides)

LUCHINSKIY, G. P., prof., doktor tekhn. nauk

[Titanium; information on new engineering materials]
Titan; svedeniia po novym materialam v tekhnike. Ut-
verzhdeno uchenym sovetom 2/VII-62 kak uchebnoe posobie
dlia studentov. Moskva, Mosk. stankostroit. in-t, 1962.
55 p. (MIRA 16:8)

(Titanium)

BLAGOSKLONSKIY, T.I., dots., kand. khim. nauk; LUCHINSKIY, G.P.,
prof., otv. red.

[Organic polymers] Organicheskie polimery. Moskva, Mosk.
stankoinstrumental'nyi in-t, 1964. 101 p. (MIRA 18:8)

LUCHINSKIY, I.I.; BUKHMAN, A.I., kand.med.nauk

Some problems in clinical X-ray diagnosis of Brill-Symers disease (gran follicular lymphoblastoma) in diseases of the gastrointestinal tract. Terap.arkh. 33 no.11:96-99 '61. (MIRA 15:5)

1. Iz rentgenovskogo otdeleniya (zav. I.I. Luchinskiy) Basseynovoy bol'nitsy No.2 (glavnyy vrach I.L. Popkov) Moskovsko-Oskovo-Volzhskogo vodnogo otdela zdravookhraneniya (nauchnyy rukovoditel' - kand.med.nauk P.S. Mironov).
(LYMPHATICS--CANCER) (DIGESTIVE ORGANS--DISEASES)

LIMONCHIK, S.L.; MIRONOV, P.S.; LUCHINSKIY, I.I.

Four surgical interventions in four different sites of cancer.
Vop. onk. 10 no.6:115-116 '64. (MIK. 18:3)

1. Iz khirurgicheskogo otdeleniya (zav. - A.N.Fedorov) Basseynovoy bol'nitsy No.2 Mokovsko-Oksko-Volzhskego vodzdravotdela (ispolnyayushchiy obyazannosti glavnogo vracha - V.G.Kuryshko). Adres avtorov: Moskva, Zh-127, Naberezhnaya Maksima Gor'kogo, d. 22, Basseynovaya bol'nitsa No.2.

BUKHMEN, A.I., kand. med. nauk; LIMONCHIK, S.L.; LUCHINSKIY, I.I.

Hemangioendothelioma of the stomach. Khirurgiia 40 no.12:
126-127 D '64. (MIRA 18:3)

1. Khirurgicheskoye otdeleniye (zav. A.N. Fedorov) i rentgenovskoye
otdeleniye (zav. I.I. Luchinskiy) Basseynovoy bol'nitsy No.2
(glavnyy vrach I.L. Popkev) Moskovsko-Oksko-Volzhskogo
Vodzdruvootdela.

LUCHINSKIY, I.N. (Kiyev); ROZENTSVAYG, A.I. (Kiyev).

Serious shortcomings in an accounting textbook ("Accounting in the railroad industry" by P.A.Motulevich, P.S.Ushakov, I.M.Shukhatovich. Reviewed by I.N.Luchinskiy, A.I.Rozentsvaig). Zhel.dor.transp.39 no.1:94-95 Ja '57. (MLRA 10:2)

1. Starshiy prepodavatel' Vsesoyuznogo zaochnogo instituta inzhenerov zheleznodosozhnogo transporta (for Luchinskiy). 2. Zamestitel' glavnogo bukhgaltera Yugo-Zapadnoy dorogi (for Rozentsvayg). (Railroads--Accounts, bookkeeping, etc) (Motulevich, P.A.) (Ushakov, P.S.) (Shukhatovich, I.M.)

LUGHINSKAYA, L.V., nauchnyy sotrudnik

Immediate and late results of antibacterial therapy of pulmonary tuberculosis. Pat., klin.i terap.tub. no.8:156-161 '58.

(MIRA 13:7)

1. Iz terapevticheskogo otdeleniya (rukovoditel' - starshiy nauchnyy sotrudnik P.P. Pekar') Odesskogo nauchno-issledovatel'skogo instituta tuberkuleza.

(TUBERCULOSIS)

38068. LUCHINSKIY, N. D.

Losses due to friction in vibrating mechanisms.

O POTERYAKH NA TRENIE V KOLEBATEL'NYKH MEKHANIZMAKH. TRCHDY VSESJOYUZ.
NAUCH. - ISSLED. IN-TA MEKHANIZATSII SEL. KHOZ-VA, T. XII, 1949, S. 133-42

LUCHINSKIY, N. D., Prof.

Agricultural Machinery

Recollections about academician Vasilii Prokhorovich Goryachkin. Mekh. elek.
sel'khoz. No. 1, 1953.

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

Luchinskiy, N.D.

LUCHINSKIY, N.D., akademik

Development of theoretical works in the field of agricultural
mechanics. Mekh.i elek.sots.sel'.khoz.no.6:8-9 '57. (MIRA 10:12)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.V.I.Lenina.
(Agricultural machinery)

UCHINSKIY, N.D. prof.

"Separators" by G.I. Bremer. Reviewed by N.D. Uchinskii, Mekh, i
elek. sots. sel'khoz. 15 no.1:63 '58. (MIRA 11:3)
(Separators (Machines))
(Bremer, G.I.)

LUCHINSKIY, N.D., akademik

Kinematic calculation of certain multilinked mechanisms. Mekh.
i elek. sots. sel'khoz. 19 no.3:25-29°61. (MIRA 14:6)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
V.I. Lenina.
(Agricultural machinery)(Machinery, Kinematics of)

GORYACHKIN, Vasilii Prokhorovich, akademik (1868-1935);
LUCHINSKIY, N.D., prof., doktor sel'khoz. nauk, red.;
CHICHEVA, L.I., red.; CHICHEV, Yu.I., red.

[Collected works in three volumes] Sobranie sochinenii v
trekh tomakh. Moskva, Kolos, 1965. 3 v. (MIRA 18:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nau. imeni
V.I.Lenina (for Luchinskiy).

LUCHINSKIY, N. N.

Caterpillars (Vehicles)

Turning caterpillar tractors around. Mekh. elek. sel'khoz. No. 1, 1953.

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

LUCHINSKIY, N.H.

Improving the roadability of automobiles on country roads. Mekh. i elek.
sel'khoz. no.4:86-92 Ap '53. (MLRA 6:5)
(Automobile engineering)

LUCHINSKIY, N.N., Cand Tech Sci -- (diss) "Study of ^a~~one~~
photoelectric dynamometer for ~~the~~ ~~sign~~ alternating
~~torques~~
~~bearing~~ moments . " Mos, 1958, 15 pp with drawings
~~Joint~~
~~United~~ Scientific Council of All-Union Sci Res
Inst of Electrification of Agr) 150 copies
(KL, 29-58, 132)

108100

31820
S/194/61/000/010/011/082
D256/D301

AUTHOR: Luchinskiy, N.N.

TITLE: Measuring torque simultaneously with ohmic resistances and photo-sensors

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 24, abstract 10 A197 (Tr. Vses. n.-i. in-ta mekhaniz. s. kh., 1960, 28, 108-126)

TEXT: Two coaxially placed cylinders having a number of slots cut along their axes were attached to a shaft with their opposite ends. Light from a small lamp placed on the case of the instrument passes through the slots and is reflected by the shaft onto a photocell placed on the same case. With the change in torque a change occurs in the angle of relative rotation of the shaft based sections causing a change in the flux of light on the photocell and the photo-current recorded with an oscillograph. It was shown experimentally that the accuracy of photo-dynamometers equals that of

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Measuring torque simultaneously...

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tensometric methods, and at the same time they are insensitive to bending stresses and the intermediate force graduations are replaced by the filament voltage calibrations. 8 figures. [Abstracter's note: Complete translation.]

Card 2/2

4

VALUYEV, Aleksandr Iosifovich; LUCHINSKIY, P.A., red.; LUGHO, Yu.V., red.
isd-vo; ZNF, Ye.M., tekhn. red.

[Overhead in ferrous metallurgical plants] Nakladnye raskhody v
chernoi metallurgii. Sverdlovsk, Gos. nauchno-tekhn. izd-vo
lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie,
1958. 70 p. (MIRA 11:8)

(Metallurgical plants—Accounting)

VALUYEV, Aleksandr Iosifovich; SKOROKHODOV, Arkadiy Aleksandrovich;
GRANOVSKIY, G.M., retsenzent; LUCHINSKIY, Sh.P., red.;
LUCHKO, Yu.V., red.izd-va; TURKINA, Ye.D., tekhn.red.

[Accounting and analysis of the administrative operations of
a metallurgical plant] Bukhgalterskii uchet i analiz kho-
ziaistvennoi deiatel'nosti metallurgicheskogo zavoda. Sverdlovsk,
Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii.
Sverdlovskoe otd-nis, 1960. 447 p. (MIRA 14:3)
(Steel industry--Accounting)

LUCHINSKIY, V. G. Cand. Med. Sci.

Dissertation: "Vasomotor Reactions of the Skin in Response to Repeated Irritations."
Inst. of Physiology, Acad. Sci. USSR, 21 Jan 47.

SO: Vechernyaya Moskva, Jan, 1947 (Project #17836)

BUKHARIN, V. N.

Tractors

Dynamometry of wheel tractors with integral agricultural machinery. Sel'khoz Mashina no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

15(2)

PHASE I BOOK EXPLOITATION

SOV/2071

Vargin, V. V., Ye. A. Antonova, L. L. Gutorova, Ye. I. Litvinova, V. V. Luchinskiy, Yu. V. Mazurek, V. Ya. Senderovich, and M. V. Serebryakova

Tekhnologiya emali i emalirovaniya metallov (Technology of Enamel and Enameling of Metals) Moscow, Gosstroyizdat, 1958. 397 p. Errata slip inserted. 5,000 copies printed.

Reviewers: G. I. Belyayev, Chief (Dnepropetrovsk Chemical and Technological Institute, Division of Silicate Technology), Candidate of Technical Sciences, Docent, and V. P. Vaulin, Candidate of Technical Sciences; Ed.: V. V. Vargin, Doctor of Technical Sciences;

Ed. of Publishing House: N. A. Gomozova; Tech. Eds: E. M. El'kina, and L. Ya. Medvedev.

PURPOSE: This book is intended for students of technological institutes and may also be useful to engineers and technicians.

Card 1/9

Technology of Enamel and Enameling of Metals

SOV/2071

COVERAGE: In this book the physicochemical, mechanical, thermal, optical, chemical, and electrical properties of enamels and enamel coating are described. General information on raw materials, classification and calculation of enamel compositions and processing methods is given. This book is for the most part a collective effort of faculty members of the Glass Department, Leningradskiy tekhnologicheskoy institute imeni Lensoveta (Leningrad Technological Institute imeni Lensovet). Chapters I, X and XV, and the section Adherence of Enamel to Metal in Chapter III were written by M. V. Serebryakova; Chapters II and III by Ye.A. Antonova, Candidate of Technical Sciences; Chapter IV by V. Ya. Senderovich, Candidate of Technical Sciences; Chapter V and the section Chemical Stability in Chapter III by Professor V. V. Vargin; Chapter VI by Yu. V. Mazurek, Candidate of Technical Sciences; Chapters VII and XVI by Ye. I. Litvinova; Chapters VIII and IX and the section Stress in an Enamel Layer in Chapter III by Engineer V. V. Luchinskiy; and Chapters XVII, XVIII, XIX, and the section Baseless Enamel Coating in Chapter XII by Senior Scientific Worker L. L. Gutorova. Ye. V. Kuklin, V. Ya. Lokshin, N. N. Kholodilin, K. P. Azanov, K. K. Tikhomivov, and V. P. Vaulin are mentioned as having contributed to the development of the Soviet enamel industry. The uses of enamel coatings for protection against corrosion, electric insulation,

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Technology of Enamel and Enameling of Metals

SOV/2071

and for combustion chambers and other parts of jet engines are treated briefly in the introduction. Basic research on enamel is being conducted at Leningrad Technological Institute, Novocherkasskiy politekhnicheskiy institut imeni S. Ordzhanikidze (Novocherkassk Polytechnical Institute imeni S. Ordzhonikidze), Khar'kovskiy politekhnicheskiy institut imeni Lenina (Khar'kov Polytechnical Institute imeni Lenin), Dnepropetrovskiy khimiko-technologicheskoy institut (Dnepropetrovsk Institute of Chemical Technology), Khar'kov Branch Nauchno-Issledovatel'skiy institut khimicheskogo mashinostroyeniya (Scientific Research Institute of Chemical Machinery) and others. There are 9 references; 5 Soviet, 3 German and 1 English.

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AVAILABLE: Library of Congress		
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VARGIN, V.V., prof., doktor tekhn. nauk; ANTONOVA, Ye.A., kand. tekhn. nauk; GUTOVA, L.L., st. nauchn. sotr.; LITVINOVA, Ye.I., kand. tekhn. nauk; LUCHINSKIY, V.V., inzh.; MAZUREK, Yu.V., kand. tekhn. nauk; SENDEROVICH, V.Ya., kand. tekhn. nauk; SEREBRYAKOVA, M.V., st. nauchn. sotr.

[Technology of enamels and the enameling of metals]
Tekhnologiya emali i emalirovaniia metallov. Moskva,
Stroizdat, 1965. 315 p. (MIRA 18:5)

LUCHINSKIY, V. V.

PHASE I BOOK EXPLOITATION

SOV/8060

Vargin, V. V., Professor, ed.

Emalirovaniye metallicheskikh izdeliy (Enameling of Metal Articles). Moscow, Mashgiz, 1962. 546 p. Errata slip inserted. 7500 copies printed.

Reviewer: A. S. Ragozin, Engineer; Ed.: M. V. Serebryakova, Engineer; Eds. of Publishing House: I. A. Borodulina, A. I. Varkovetskaya, and T. L. Leykina; Tech. Ed.: L. V. Shchetinina; Managing Ed. for Literature on Machinery Manufacture (Leningrad Division, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for specialists in enameling, technical personnel of plants, and personnel of scientific research laboratories and institutes. It can also be used by teachers and students of schools of higher education.

COVERAGE: The book provides a brief discussion on raw materials and processes for melting enamels, describes in detail furnaces for melting enamels,

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20

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Enameling of Metal Articles

and offers some recommendations for selection and calculation of furnaces. A special section [Ch. IV, sect. 8] on heat-resistant coatings is included. A flowsheet is given for centralized production of enamels. The properties and preparation of slips are also comprehensively described. The production of new enameled products such as pipelines, architectural and building materials, and aluminum articles is described. Individual chapters were written both by plant personnel and by technical personnel of scientific research institutes and schools of higher education. [See: Table of Contents.] No personalities are mentioned. There are 638 references, mainly Soviet, with many English and some German.

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PART II. THE TECHNOLOGY OF ENAMELING METAL ARTICLES

- Ch. IV. Enameling of Steel Articles (N. S. Smirnov, N. N. Zelenskiy, Ye. M. Oshurkov, B. Z. Pevzner, Ye. A. Antonova, V. V. Luchinskiy, V. P. Vaulin, L. V. Purin, V. V. Vargin, M. M. Karabachinskaya, A. A. Appen, and V. Ya. Lokshin) 102

Card 3/4

LUCHITSKAYA, A.I. [translator]; TITOVA, N.A. [translator]; YAKOVENKO,
M.Ye., red.; KHAR'KOVSKAYA, L.M., tekhn.red.

[Stratigraphic handbook: Vietnam, Laos, Cambodia, Thailand,
Malaya] Stratigraficheski spravochnik: V'etnam, Laos,
Kambodzha, Tailand, Malaia. Moskva, Izd-vo inostr.lit-ry,
1960. 256 p. Translated from the English and the French.
(MIRA 13:10)

1. International Geological Congress. 20th, Mexico.
(Asia, Southeastern--Geology, Stratigraphic)

LUCHITSKAYA, A.I. [translator]; YAKOVENKO, M.Ye., red.; KHAR'KOVSKAYA,
L.M., tekhn.red.

[Handbook of the stratigraphy of India, Pakistan, Nepal, Bhutan,
Burma, and Ceylon] Stratigraficheski spravochnik: Indii,
Pakistan, Nepal, Butan, Birma, TSsilon. Moskva, Izd-vo inostr.
lit-ry, 1960. 491 p. (MIRA 13:11)

1. International Geological Congress. 20th, Mexico, 1956.
(Asia--Geology, Stratigraphic)

ALTUKHOV, Ye.N.; LUCHITSKAYA, A.I.

Cambrian conglomerates in the upper reaches of the Shurmak and Naryn Rivers (Sangilen Highlan, southeastern Tuva). Dokl. AN SSSR 146 no.2:422-425 S '62. (MIRA 15:9)

1. Institut mineralogii, geokhimii i kristalokhimii redkikh elementov AN SSSR. Predstavleno akademikom D.I. Shcherbakovym. (Tuva Autonomous Province—Geology, Stratigraphic)

LUCHITSKAYA, A. I.

Hybridization phenomena of Upper Riphean granitoids in the
Eastern Sayan Mountains. Izv AN SSSR Ser geol. 29 no. 5:25-41
My '64. (MIRA 1:7)

1. Institut mineralogii, geokhimii i kristalokhimii redkikh
elementov AN SSSR, Moskva.

LUCHITSKAYA, A.I.

Characteristics of the distribution of rare elements in Upper Riphean granitoids in the eastern part of the Eastern Syan Mountains. Dokl. AN SSSR 155 no.1:108-111 Mr '64. (MIRA 17:4)

1. Institut mineralogii, geokhimi i kristalokhimi redkikh olementov. Predstavleno akademikom D.I.Shcherbakovym.

LUCNITSKIY, I. V.

Mbr., Inst. Geological Sci., Dept. Mineral Resources, Kazakh Acad. Sci. -1949-.
Geology. Mbr., Chair Petrography, Moscow State Univ., -1949-. Mbr., Chair
Petrography, Moscow State Univ., -1947-.

"The Granite Intrusions of the Malkhan Ridge,"

So: Vest. Moskov. U., No. 4, 1947.

"The Structural Disintegration of the Transbaikial."

SO: Iz. Ak. Nauk SSSR, Ser. Geol., 2, 1948.

"The Growth and Structural Condition of The Mesozoic, Granite Intrusions of
the Upper Amur and the Stanovyy Ridge,"

SO: Dok. AN, 65, No. 2, 1949.

Pa-67T43

LUCHITSKIY, I. V.

USSR/Geology
Tectonics

Mar/Apr 1948

"Structural Disintegration of the Transbaykal," M.S.
Nagibina, I.V. Luchitskiy, 7 pp

"Iz Ak Nauk SSSR, Ser Geolog" No 2

Bases system of structural disintegration of the Trans-
baykal on results of geologic surveys of the past ten
years.

67T43

KOSYGIN, Yu.A.; LUCHITSKIY, I.V.; ROZANOV, Yu.A.

Experiments on gypsum deformations and its geological significance.
Biol. MOIP. Otd. geol. 24 no.2:3-19 '49. (MIRA 11:5)
(Gypsum)

LUCHITSKIY, I. V.

168T46

USSR/Geology - Books

Sep/Oct 50

"Reviews of B. A. Ivanov's Book, 'Coal-Bearing and Other Mesozoic Continental Deposits of the Transbaykal (Works of the East Siberian Geological Administration, Vol XXXII, Irkutsk, 1949)',", V. A. Obruchev; I. V. Luchitskiy

"Iz Ak Nauk SSSR, Ser Geolog", No 5, pp 155-157; 157-160

First review describes contents of book and commends it as first to give detailed, composite description of coal-bearing Mesozoic strata of Transbaykal. Second review severely criticizes Ivanov for presenting only his personal ideas and using factual data out of context.

168T46

1. LUCHITSKIY, I. V.

2. USSR (600)

4. Sok-Sheshmin Uplifts - Geology, Structural

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001030710017-1"

7. Structure of the foundation of the Russian plateau in the region of the Sok-Sheshmin uplifts in the Trans-Volga area. Dokl. AN SSSR 88, No. 6, 1953.

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

LUCHITSKIY, I.V.
LUCHITSKIY, I.V.

Relation of the Devonian volcanogenic series of the Minusinsk intermontane downwarping to the basement rocks. Izv. vost. fil. AN SSSR no.9:24-33 '57. (MIRA 11:1)

1. Zapadno-Sibirskiy filial AN SSSR.
(Minusinsk region--Geology, Structural)

LUCHITSKIY, I.V.

AUTHOR: Luchitskiy, I.V.

11-10-10/23

TITLE: Young Basalts of the Minusinsk Intermountain Depression
(O molodykh basal'takh Minusinskogo mezhgornogo progiba)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957,
10, p 94-97 (USSR)

ABSTRACT: Young postcarboniferous basalts of the Minusinsk depression have been known for some time. In the majority of cases these basalts form dikes and tube-like bodies or necks, and occur very seldom in seams. They are mainly found among Upper Devonian red-colored deposits, but separate dikes protrude also into lower carboniferous deposits. Dikes of basalt have not been discovered in Jurassic sediments. Thus the age of young basalts can be determined by the time interval between the Upper Permian and Triassic periods. The dimensions of dikes vary between tens to hundreds of m at small widths, in rare instances the widths range between 10-15 m. The petrographic composition of young basalts is comparatively uniform and much like typical plateau basalts. The main distinguishing properties are the degree of secondary or crystalline changes and not deviations of the mineral composition. The author. published the mineral composition of basalts from different regions.

Card 1/2

Young Basalts of the Minusinsk Intermountain Depression

11-10-10/23

The process of transfer of clastic material from deep layers - which is connected with basalt intrusions - is supplemented by a medium of fine fragments of peridotites, consisting of idiomorphic grains of greenish olivine and diallage or augite. Young basalts are distributed irregularly in the Minusinsk depression. All known deposits are found in the Chulymo-Yenisey (also called north Minusinsk) depression, where necks and dikes of young basalts surround the Kop'yevskaya anticlinal elevation in the shape of a crescent. There are 1 table, and 6 references, all Slavic (Russian).

ASSOCIATION: Mining-Geological Institute of the West Siberian Branch of the Academy of Sciences USSR, Novosibirsk (Gorno-geologicheskii institut Zapadno-Sibirskogo filiala AN SSSR, g. Novosibirsk)

SUBMITTED: 22 April 1957

AVAILABLE: Library of Congress

Card 2/2

LUCHITSKIY, I. V.

PAVLOVSKIY, Ye.V.; LUCHITSKIY, I.V.

"Geological dictionary," volumes 1, 2. Reviewed by E.V.Pavlovskii,
I.V.Luchitskii. Izv.AN SSSR.Ser.geol. 22 no.3:96-98 Mr '57.
(MLRA 10:5)

(Geology--Dictionaries)

LUCHITSKIY, I.V.

Structure of the Minusinsk intermontane depression. *Biul. MOIP*
otd. geol. 32 no.2:65-75 Mr-Apr '57. (MIRA 11:3)
(Minusinsk Basin--Geology)

Luchitskiy, I.V.

AUTHOR:

Luchitskiy, I.V.

20-2-35/50

TITLE:

On the Devonian Volcanogenic Red Bed Formation of the **Minusinsk** Intermountain Downwarping (O devonskoy vulkanogenno-krasnotsvetnoy formatsii Minusinskogo mezhgornogo progiba)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 2, pp. 287 - 289 (USSR)

ABSTRACT:

This formation contains a series of lower Devonian- and Eifel deposits. They are resting upon a lower palaeozoic folded fundament with a crass angular discordance. This series of deposits is to be called Kop'yevskaya. It has a complicated structure. In its more complete cross sections a two-phase development of the volcanic activity can be found. A series of volcanogenic-red accumulations resulted. The first phase is characterized by a system of shells ("pokrovy") and layers of Labrador-porphyrates, trachy-andesites, and partly by plagioporphyries. The second phase consists mainly of basalts and diabas porphyrites. The total development of the volcanic activity proves a displacement of the differentiates of the basaltic magma by not differentiated products of their crystallization. However, in a more favorable structural po-

Card 1/4

20-2-35/50

On the Devonian Volcanogenic Red Bed Formation of the Minusinsk Intermountain
Downwarping

sition plagioporphyries, teschenites, teralite-syenites, and other basic rocks and rocks which are associated with them are formed occasionally which occur mostly as stocks, partly, however, as layers. Between the two phases of volcanic activity there was an intermission period of longer or shorter duration. In the course of the latter lagoony-marine, terrigenous-red, and carbonaceous deposits are accumulated. The latter and the older formations of the first phase are of lower Devonian age. The second phase contains the time interval corresponding to the Eifel age. The cross sections of the volcanogenic-red formation show a facial variability of two types. Firstly the terrigenous-red or carbonaceous deposits replace the volcanogenic formations produced at different times. Secondly certain alterations of the composition of these latter occur in the tectonically different portions of the Minussinian intermountain downwarping. In consequence of this a greater rôle of the acid terms of the differentiation series represented by the plagioporphyries, can be found in the direction of the elevations. Conglomerate packets at the basis and within the cross section prove relatively elevated places from which the material of the lower palaeozoic fold funda-

Card 2/4

On the Devonian Volcanogenic Red Bed Formations of the Minusinsk Intermountain
Downwarping

ment was corroded. Also greater mountain massifs with a relief in the seaming of the downwarping are bound to have existed. Thus total contours of a single through-bend zone indicate the lower Devonian age. Since basalts, diabas-porphyrates, and various differentiation products of the basaltic magma predominate to a great extent, a direct comparing to the porphyry-formations of the Ural-Tyan'-Shan'-geosynclinal regions is excluded. Most similar to the formation in question are analogous formations of Devonian in the Ukrainian synclisis, as well as partly to the Turgay through-bend, furthermore the formation of Kyuinou and partly of Newark in North-America. It would be expedient to treat the question of an elimination of the basalt formation beside the porphyry formation. The first is characteristic of the formation period of plate structures. The mentioned through-bend is to be counted to those inner through-bends of the Epicaledonian Plateau of which it is characteristic that the formation of the deposits forming the through-bend occurs at the cost of the material from the seaming elevations. From this standpoint certain analogies with the synclinals can be derived. There

Card 3/4

20-2-35/50

On the Devonian Volcanogenic Red Bed Formations of the **Minusinsk Intermountain Downwarping**

are 11 references, 10 of which are Slavic.

ASSOCIATION: West Siberian Branch AN USSR
(Zapadno-Sibirskiy filial Akademii nauk SSSR)

PRESENTED: April 23, 1957, by N.S. Shatskiy, Academician

SUBMITTED: April 20, 1957

AVAILABLE: Library of Congress

Card 4/4

LUCHITSKIY, Igor' Vladimirovich; KUZNETSOV, Yu.A., otv.red.; KOPAYEVICH,
N.N., red.isd-va; PRUSAKOVA, T.A., tekhn.red.

[Volcanism and tectonics of Devonian depressions in the Minu-
sinsk intermountainous trough] Vulkanizm i tektonika devonskikh
vpadin Minusinskogo mezhgornogo progiba. Moskva, Izd-vo Akad.
nauk SSSR, 1960. 275 p. (MIRA 13:3)

1. Chlen-korrespondent AN SSSR (for Kuznetsov).
(Minusinsk Basin--Geology)

KOSYGIN, Yu.A.; LUCHITSKIY, I.V.

Principles for delineating old platforms and the position of marginal uplifts in the Siberian Platform. Geol. i geofiz. no.1:52-57 '60. (MIRA 13:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
(Siberian Platform—Geology, Structural)

KOSYGIN, Yu.A.; LUCHITSKIY, I.V.

Boundary structures of ancient platforms. Geol.i geofiz. no.10:42-
49 '61. (MIRA 14:12)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

(Geology, Structural)

LUCHITSKIY, I.V.; BELITSKIY, I.A.; GROMIN, V.I.

Deformation of models of stratified rocks. Dokl. AN SSSR 144
no.5:1126-1128 Je '62. (MIRA 15:6)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
Predstavleno akademikom A.A.Trofimukom.
(Geological modeling)

SHOKHINA, O.I.; LUCHITSKIY, I.V., doktor geol.-min.nauk, otv.red.; SHALINA, L.V., red.; MAZUROVA, A.F., tekhn.red.

[Alkali rocks of the Bulan-kul' massif (Krasnoyarsk Territory)]
Shchelochnye porody Bulan-Kul'skogo massiva (Krasnoyarskii krai).
Novosibirsk, Izd-vo Sib. otd. AN SSSR. 1961. 68 p. (Akademiya
nauk SSSR. Sibirskoe otdelenie. Institut geologii i geofiziki.
Trudy, no.10). (MIRA 15:11)

1. Zaveduyushchiy Krasnoyarskoy kompleksnoy laboratoriyey Instituta
geologii i geofiziki Sibirskogo otdeleniya AN SSSR (for Luchitskiy).
(Bulan-kul' Lake region--Rocks, Igneous)

LUCHITSKIY, I.V.:

Significance of the alkaline modulus for the systematization of igneous rocks. Trudy VSGI Ser.geol. no.5:62-69 '62.

(MIRA 15:9)

1. Krasnoyarskaya kompleksnaya laboratoriya Instituta geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

(Rocks, Igneous--Analysis)

LUCHITSKIY, I.V., red.; BOGOLEPOV, K.V., red.; KOSYGIN, Yu.A., red.; MUSATOV, D.I., red.; SHLYKOVA, O.P., red.; YUNOV, A.Yu., red.; BUSHUYEVA, V.M., red.; VYALYKH, V.I., tekhn. red.

[Tectonics of Siberia] Tektonika Sibiri. Novosibirsk. Vol.2. [Tectonics of Krasnoyarsk Territory] Tektonika Krasnoiarskogo kraia. 1963. 385 p. (MIRA 17:4)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye.

LUCHITSKIY, I.V.; KRYLENKO, L.I.

Alkali modulus in ultrabasic rocks. Dokl. AN SSSR 149 no.4:
945-947 Ap '63. (MIRA 16:3)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
Predstavleno akademikom V.S.Sobolevym.
(Rocks, Igneous)

VOLOKHOV, I.M.; DOVGAL', V.N.; KOSYGIN, Yu.A.; KUZNETSOV, V.A.;
LUCHITSKIY, I.V.; POSPELOV, G.L.; POLYAKOV, G.V.; PINUS, G.V.;
SOBOLEV, V.S.; TROFIMUK, A.A.; SHAKHOV, F.N.

Professor IUrii Alekseevich Kuznetsov, Corresponding Member of the
Academy of Sciences of the U.S.S.R.; on his 60th birthday. Geol.
i geofiz. no.4:135-140 '63. (MIRA 16:10)

KUZNETSOV, Yu.A.; LUCHITSKIY, I.V., red.

[Main types of igneous rock formations] Glavnye tipy mag-
matischeskikh formatsii. Moskva, Izd-vo "Nedra," 1964. 386 p.
(MIRA 17:7)

LUCHITSKIY, I.V.

Basic problems of paleovolcanology and volcanic formations. Trudy
Lab. paleovulk. Kazakh. gos. un. no.2:5-12 '63.

(MIRA 17:11)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

LUCHITSKIY, I.V.

Types of the formation of alkali rocks in Siberia. Trudy Inst. geol.
i geofiz. Sib. otd. AN SSSR no.33:165-183 '63.

(MIRA 17:11)

LAPIN, Boris Nikolayevich; LUCHITSKIY, I.V., otv. red.;
MARENINA, T.Yu., red.

[Atlas of the structures of Devonian volcanic rocks in
the Gornyy Altai] Atlas struktur devonskikh vulkano-
gennykh porod Gornogo Altaia. Moskva, Nauka, 1965. 125 p.
(MIRA 18:11)

LUCHITSKIY, M.G.

Device for preparing cable suspenders. Avtom., telem. i sviaz' 4
no. 4:34-35 Ap '60. (MIRA 13:6)

1. Brigadir dorozhnykh elektrotekhnicheskikh masterskikh L'vovskoy
dorogi.

(Electric lines)

(Railroads--Communication systems)

LUCHITSKIY, M.G., master

Template for marking-out holes for pins. Avtom., telem. i sviaz'
5 no.11:39 N '61. (MIRA 14:11)

1. Elektrotekhnicheskiye masterskiye L'vovskoy dorogi.
(Railroads--Repair shops)

VAYNSHTEYN, B.S., kand. ekon. nauk; LEYKINA, K.B.; MINTS, M.G.;
LUCHINSKIY, S.M.; KIYEVSKIY, V.G., kand. ekon. nauk;
VINER, S.A.; BINIAURISHVILI, I.I.; GUREVICH, M.S.;
ZIKEYEV, B.V., kand. tekhn. nauk; RUBINOV, N.Z.;
SARYCHEV, V.S., kand. tekhn. nauk; APARIN, I.L.;
KRINITSKAYA, M.Ye.; DZIKOVSKIY, G.I.; ZEL'TSER, R.Ya.;
GOL'DENBERG, I.L.; ISAKOVSKIY, I.G.; DEMIDOVA, S.N.,
inzh., red.

[Economic efficiency of capital investments and the
introduction of new equipment in construction] Ekonomiche-
skaia effektivnost' kapital'nykh vlozhenii i vnedrenia
novoi tekhniki v stroitel'stve. Moskva, Stroizdat, 1965.
235 p. (MIRA 18:8)

1. Moscow. Nauchno-issledovatel'skiy institut ekonomiki
stroitel'stva. 2. Rukovoditel' sektora ekonomicheskoy
effektivnosti novoy tekhniki Nauchno-issledovatel'skogo
instituta ekonomiki stroitel'stva, Moskva (for Kiyevskiy).
3. Sektor ekonomicheskoy effektivnosti novoy tekhniki
Nauchno-issledovatel'skogo instituta ekonomiki stroitel'-
stva, Moskva (for all ~~except~~ Demidova).
4. Nauchno-issledo-
vatel'skiy institut ekonomiki stroitel'stva, Moskva (for
Demidova).

LUCHITSKIY, I.V.; GROMEN, V.I.; BUNAGIN, S.S.

Joint deformation of clay and carbonate rocks under experimental conditions and nature. Geol. i geofiz. no.7:78-82. '64.

(NIRA 18:3)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

TEST AND 2ND CRITERIA PROPERTIES AND PROPERTIES INDEX TEST AND 3RD CRITERIA

Petrographical particularities of Tyuya-Muyun radioactive deposits in Fergana.

V. J. LUSHCHAKII. *Tras radium et mineris radioactivis, acad. sci. U. R. S. S. R.*, 21-50(1950); cf. C. A. 17, 3060. - At the beginning of the Kirgis Atau River are strongly developed sediments which are of light gray color. They are formed by an aggregate of quartz and feldspar of uniform grain structure. Quartz is found in small irregular grains. Microcline is represented by large irregular grains which are evenly distributed throughout the strata. Plagioclase and oligoclase appear in the form of sharply defined plates with (010) cryst. grains and are included in microcline. Brown biotite, which often is transformed into chlorite or green hornblende, occurs in large quantities. These deposits are of Lower Carboniferous age.

A. C. Noh

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1950s 1960s 1970s

MATERIALS INDEX

PROPERTY INDEX

TEST AND 3RD CRITERIA

PROCESSES AND PROPERTIES INDEX

Investigations in the region of limestone contacts of the Kirghiz-Ata ridge in Fer-
 gana. V. I. LUCASOVSKI. *Trav. radium et minerat. radiactivit. acad. sci. U. R. S. S. S.*
 II, 201-03 (1920). -- The purpose was to det. the geological and mineralogical character
 of the limestone contacts. These contacts are of interest, because certain traces of Cu
 ore are found, and the Cu ore in turn is usually found in connection with U compds.
 Particular minerals found are hornblende, porphyrite and hornblende-granites. Along
 the line of contact of syenitic-dioritic magma which formed the ridge of Kirghiz-Ata with
 Paleozoic limestones pronounced changes took place, as well as within the limestones
 which were exposed to different changes, as well as in the magma which in the middle part
 of the ridge gave birth to syenites and at the ends of the ridge gave birth to various
 diorites, among which the most important roles are played by hornblende and diorites.
 The first minerals formed during this process were ferric calcite rocks. Later, there
 appeared plagioclases. Considerably younger are the ore minerals as, for instance,
 magnetite. During contact metamorphism no change took place which was due to the
 influence of pressure. The chief role has been played by the high temp. of the magma.
 Secondary changes in contact minerals took place chiefly in granite, which gave during
 its transformation 2 new secondary minerals: serpentine and chlorite. During these
 changes, hydrothermic agents were of considerable importance. A. C. NOG

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A.S.M. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

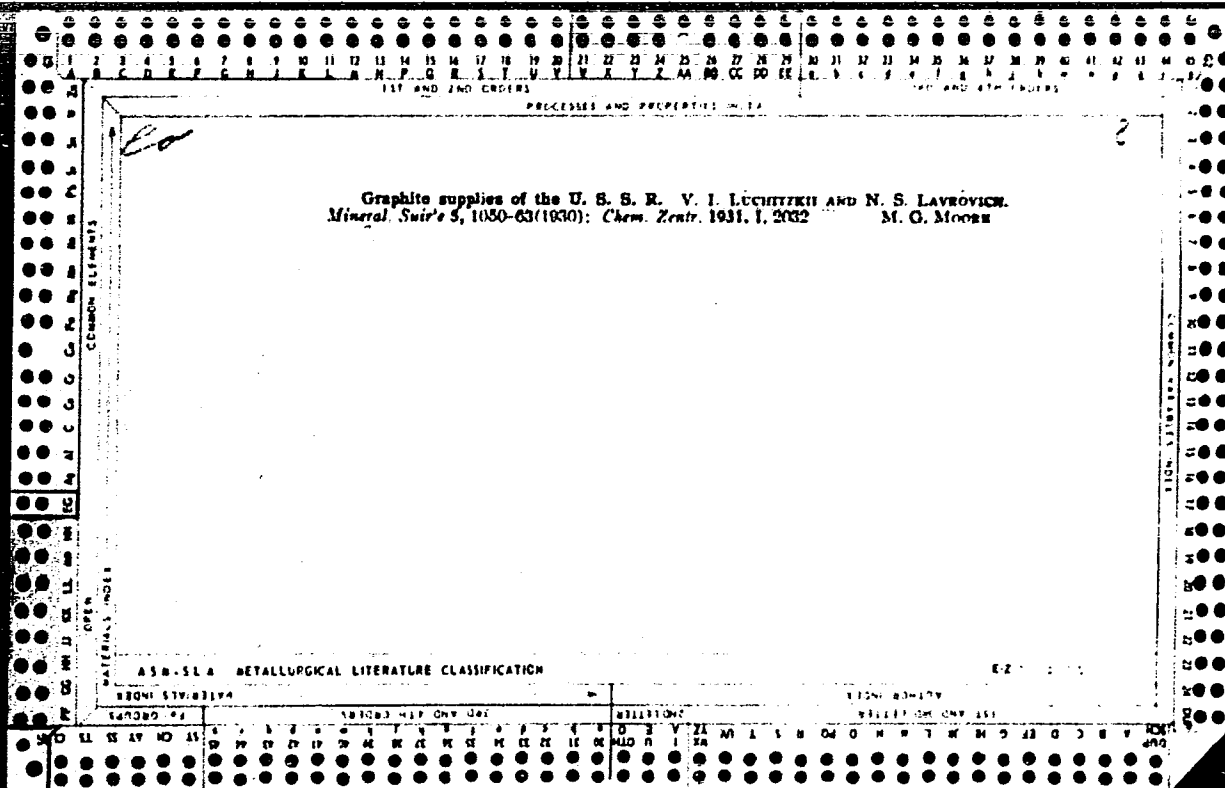
Microfilm frame containing a document page. The page is titled "Luchitskiy, V. I. KAOLINS OF UKRAINIA. *Third Int. Econ. Mineral. Mt. (U.S.S.R.), 1928* [41] 3-244." The text describes kaolin deposits in Ukraine, mentioning 43,151,000 tons residual and 5,897,300 tons sedimentary deposits. It details the chemical composition of the kaolin, including percentages of SiO₂, Al₂O₃, Fe oxides, CaO, TiO₂, and Mn oxides. The text also discusses the process of kaolinization in the Ukrainian crystalline formation, noting it occurred in two stages: (1) in Pre-Cambrian times and (2) in the Pre-Devonian period.

LUCHITSKIY, Vladimir Ivanovich, 1877

The hydrogeological regions of the Ukraine, Kyiv, 1930. 29P. (51-45310)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001030710017-1"

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LUCHITSKII, V. I.

LUCHITSKII, V. I. Poleznye iskopaemye Ukrainy. Moskva, Gosgorizdat, 1933. 158 p.

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SO: LC, Soviet Geography, Part 1, 1951, uncl.

CIA-RDP86-00513R001030710017-1"

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Kaolin. V. J. Luchitskii and A. P. Chicherin. *Trans. Inst. Econ. Mineral. (U. S. S. R.)* 10-year Vol. 1933, 125-54; cf. C. A. 23, 3064.—A review of the kaolin deposits in U. S. S. R., methods of refining, chem. and phys. properties, uses and improvements in mining and working. Chas. Blanc

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Salt domes, gases and petroleum. V. I. Luchitzkil. *Mineral. Sibir' 6*, No. 7, 1-2(1933).—Test borings in the Pomen and Isachek regions, North Poltava, disclosed deposits of rock salt and gases. The high elevation of the salt deposits above the sea level indicates doming (Shatskil). By analogy with the salt domes of U. S. A., the deposits must be of great magnitude and overlie petroleum deposits. The presence of He in gases is suggested by the location of the deposits in Permian-Carboniferous strata. Chas. Blanc

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Petrography of the Ukraine. V. I. Luchitski and P. I. Lebedev. *Petrog. Inst. Acad. Sci. U. S. S. R.*, Petrography of U. S. S. R., Ser. 1, Regional Petrog. No. 3, 324 pp.(1934); *Mineralog. Abstracts* 6, 315-16. A summary of the petrography of the metamorphic and igneous rocks of the Ukrainian Pre-Cambrian block. A summary is combined with an account of an original research on the gabbro-anorthosite-charnockite complex of Volhynia and on the alkali complex of the Azov region. Two hundred and fifty analyses are tabulated. I. F. S.

COMMON ELEMENTS

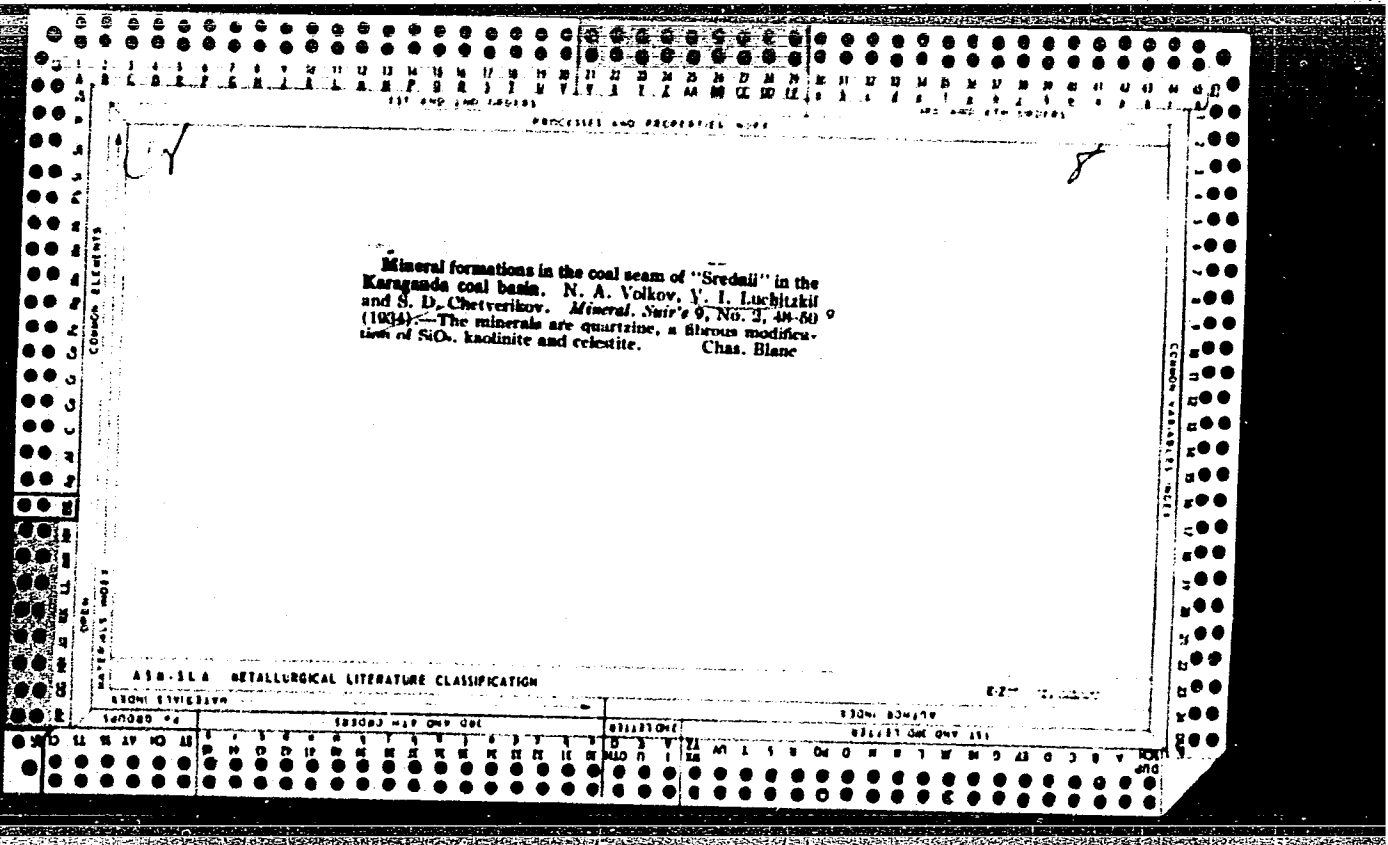
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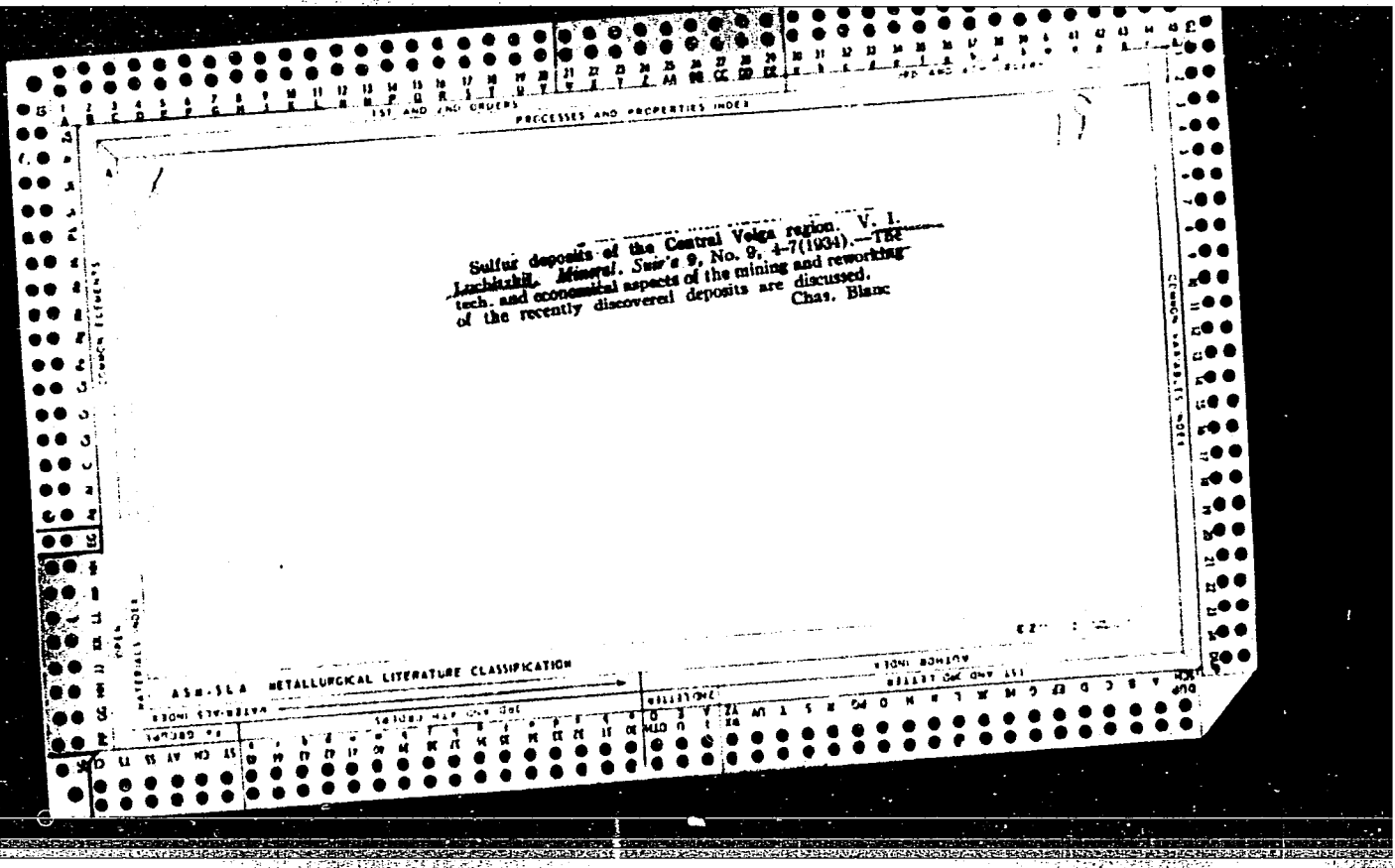
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LUCHITSKI^Y, Vladimir Ivanovich, 1877-

The petrographic provinces of the U.S.S.R. Leningrad. Ob"edinennoe nauchno-tekhnichskoe izd-vo NKTPSSSR. Glavnaia red. geologorazvedochnoi i geodezicheskoi lit., 1936. 704 p.

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V. G. Orlowski. In memoriam. V. I. Luchitskii.
Soviet Geol. S, No. 10, 111(1938).—Soviet geologist and
mineralogist. F. H. Rathmann

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ca

The young effusive deposits of Eastern Hiberbaikal.
V. I. Luchitskij and M. S. Nagibina. *Bull. soc. naturalistes Moscou, Sect. géol.* 16, No. 1, 29-35 (in French 35) (1938).—A study of the mode of deposition, formation and petrographic compn. of liparites and the minerals accompanying them show that they are younger than the basalts. The chem. compn. of the felsitic and other liparites, and other phys. properties are given.
J. S. Joffe

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The ultrabasic rocks of eastern Transbaikalia, A. I. Luchitski, *Compt. rend. acad. sci. U. R. S. S.* 1971, 211: 711-713 (in English). Serpentinized peridotites and serpentinites were discovered near Gaisaur in the form of dikes and small stocks. The former are composed mainly of olivine (largely serpentinized to chrysotile and magnetite) and hornblende, with small quantities of plagioclase. The analysis gave SiO₂ 33.48, TiO₂ 0.17, MgO 1.05, Fe₂O₃ 7.91, FeO 3.17, MgO + CaO 31.00, MnO 0.21, Na₂O and K₂O not found, H₂O 0.74, loss on ignition 12.23, P₂O₅ 0.09 and total 100.04%. This peridotite is a representative of the schrieveite-cordierite group of Rosenbusch (*Mikroskop. Physiognomie. Mineralogische Zeitschrift*, II, 1(1907)); owing to its peculiarly high olivine content and absence of pyroxene I. propose to set it as a singular representative of hornblende peridotites under the name *gaisaurite*. D. W. Peacor

METALLURGICAL LITERATURE CLASSIFICATION

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CA

Tin formations of the northwestern part of the Ukrainian crystalline ridge. V. I. Luchinskii and M. A. Minakov. *Soviet Geol.* 9, No. 4-5, 142-51 (1939); *Russ. Revue. Zhur.* 1939, No. 9, 21.—Cassiterite and considerable amts. of topaz and ilmenite were found in 43 out of 64 samples taken. The ilmenite contained $Ta_2O_5 + Nb_2O_5$ and V_2O_5 . Cassiterite was also found at great depths and in "artificial" samples. Cassiterite originated from the decomp. granites and the pegmatite and quartz veins. W. R. Hunt

ASR-51A METALLURGICAL LITERATURE CLASSIFICATION

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Petrographic composition and age of the crystalline rocks of the Boenaki (Moscow District) porous springs. V. I. Luchitskii and I. Yu. Polovinkins. *Soviet Geol.* 1943, No. 10, 11-12. Cordierite, sillimanite, garnet, biotite, feldspar and kyanite deposits closely resembling those of the Southern Ukraine and of Karelia are described. They are Proterozoic. F. H. Rathmann

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

LUCHITSKI^Y, Vladimir Ivanovich, 1877-

Petrography; a textbook. 6. perer. izd. Moskva, Gos. izd-vo geol. lit-ry, 1947-49.
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Alkali metasomatism in the region of the Ukrainian massive. V. I. Luchitskii. *Doklady Akad. Nauk S.S.S.R.* 55, 49-52 (1947); *Chem. Zentr.* (Russian Zone Ed.) 1949, I, 478.—The work of recent years has shown that alkali metasomatism is of common occurrence in the region of the Ukrainian massive. Rocks with alkali preponderancy are also found at several other places in the U.S.S.R., such as the area of the magnetic anomaly of Kursk, East Transbaikalia, Karelia, and the Kola peninsula. In biotite-hornblende-granites and -diorites (Rapikivi type), which are significantly younger than the migmatites and amphibolites through which they erupted, phenomena of intensive alkali (Na) metasomatism are observed, whereby CaO in plagioclases and K₂O in K feldspars have been replaced extensively by Na₂O. Furthermore the Na metasomatism led to the formation of aegirine from Mg-Ca-pyroxenes, to the transformation of ordinary hornblende into alkali hornblende (arfvedsonite, hastingsite, riebeckite, and less frequently crossite). In foyaites K₂O was almost completely replaced by Na₂O, whereby some rare elements (Zr, Ce, La, Dy, etc.) were concd. The alkalic rocks are at the present time of general interest for their formation is frequently connected with a concn. of valuable elements such as Ce, La, Nb, Ta, and locally also of Th, U, Ra, and others.

F. W. Hoffmann