

RYZHENKOV, V. Ye. Cand Med Sci -- (diss) "Reflexes from carotid chemoreceptors
to the function of the adrenal-gland-cortex." ^{Cortex of the suprarenal glands} Len, 1959. 19 pp (Min of
Health RSFSR. Len Sanitary Hygiene Med Inst), 200 copies (KL, 47-59, 117)

ANICHKOV, S.V.; ZAVODSKAYA, I.S.; RYZHENKOV, V.Ye.

Principle of nervism in pharmacotherapy (effect of neurotropic drugs on vegetative reflexes and the trophic processes of the stomach wall.) Uch. zap. Inst. farm. i khimioter. AMN SSSR 3: 14-23'63. (MIRA 16:9)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.
(AUTONOMIC DRUGS) (STOMACH)

ANICHKOV, Sergey Viktorovich; BELEN'KIY, Maks L'vovich; RYZHENKOV,
V.Ye., red.; VOLKOV, N.V., tekhn. red.

[Pharmacology of the chemoreceptors of the glomus caroticum]
Farmakologiya khimioretseptorov karotidnogo klubochka. Le-
ningrad, Medgiz, 1962. 199 p. (MIRA 15:11)
(CAROTID BODY--INNERVATION) (PHARMACOLOGY)

RYZHENKOV, V.Ye. (Leningrad)

Role of reflexes from the carotid chemoreceptors in the action of nicotine, cerconium, and sodium sulfide on 17-hydroxycorticosteroid secretion by the adrenals in dogs. Probl.endok.i gorm. 5 no.6: 19-23 N-D '59. (MIRA 13:5)

1. Iz kafedry farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V. Anichkov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(ADRENAL CORTEX HORMONES physiol.)

(NICOTINE pharmacol.)

(SULFIDES pharmacol.)

(CAROTID SINUS pharmacol.)

(CHOLINE rel.cpsds.)

(FATTY ACIDS pharmacol.)

RYZHENKOV, V.Ye. (Leningrad)

Reflexes from carotid choline receptors affecting cortical activity of the adrenals [with summary in English]. Probl.endok. i gorm. 5 no.1:39-43 Ja-F '59. (MIRA 12:3)

1. Iz kafedry farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V. Anichkov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(NICOTINE, eff.

on adrenal cortex in intact animals & after excis. of carotid sinus (Rus))

(ADRENAL CORTEX, effect of drugs on,

nicotine, in intact animals & after excis. of carotid sinus (Rus))

(CAROTID SINUS, eff. of excis.

on adrenal cortex reactions to nicotine in animals (Rus))

MIEHURSKIY, S., RYZHENKOV, V.Ye.

**Effect of nicotine on the amount of ascorbic acid in guinea pigs.
Trudy LSGMI 45:42-45 '58 (MIRA 11:11)**

**1. Kafedra gigiyeny pitaniya Leningradskogo sanitarno-gigiyeni-
cheskogo meditsinskogo instituta (zav. kafedroy - dots. Z.M.
Agranovskiy).**

**(NICOTINE--PHYSIOLOGICAL EFFECT)
(ASCORBIC ACID)**

Citrus Fruits

Raising citrus plants Fel. i sem. / No. 3, 1952
19

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

RYZHENKOVA, G.D. [Ryzhankova, H.D.], agronom

Along Lenin's path. Rab. i sial. 36 no. 4:12-13 Ap '60.
(MIRA 14:5)

1. Kolkhoz im. Lenina Shklovskogo rayona.
(Shklov District--Women as farmers)

RYZHENKOVA, M.

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

OP

15

Salt tolerance by cotton. M. T. RYZHENKOVA. *Chemisation Socialistic Agr.* No. 8, 47-56(1012).—The salt concn. in the first 10 cm. of the soil is of primary importance during the process of germination. 1.8% salt concn. was found to be injurious up to 0.9% concn. no injury was noted. For the normal growth of cotton the salt concn. of the first 50 cm. of soil is a detg. factor. The sulfates of Na and Mg were found to be just as injurious as the chlorides. Gypsum at the rate of 0.4% does not depress the growth of the cotton plant but reduces the yield. The Egyptian cotton was found to be more sensitive to salt concn. than the American cotton.
I. S. Tawny

Common Elements

Common Variable Elements

ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION

7 GROUPS

3RD AND 4TH ORDERS

1ST AND 2ND LETTERS

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
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VOLKOVA, L.V.; SHVETS, V.I.; KHANDKAROVA, V.S.; RYZHENKOVA, S.F.;
PREOBRAZHENSKIY, N.A.

Lipides. Part 19: Synthesis of optically active
D-(—)- α -oleoyl- β -linoleoyl-glycerol. Zhur.ob.khim. 33 no.6:
1848-1851 Je '63. (MIRA 16:7)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M.V.Lomonosova.

(Glycerides)

VOLKOVA, L.V.; SHVETS, V.I.; RYZHENKOVA, S.F.; VARVARINA, N.B.; SMOLOVIK,
I.V.; PREOBRAZHENSKIY, N.A.

Lipides. Part 10: Synthesis of mixed α, β -diglycerides containing
residues of higher acids of the aliphatic series. Zhur.ob.khim.
32 no.6:1764-1768 Je '62. (MIRA 15:6)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.
Lomonosova.

(Glycerides) (Acids, Fatty)

BERSHADSKIY, A.Ye.; RYZHEVSKIY, O.N.

RUMF-1 interphase level regulator. Izv.vys.ucheb.zav.;neft' i gaz
6 no.11:97-99 '63. (MIRA 17:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akad. I.M.Gubkina.

RZHEPLINSKIY, G. V.

The Regime of Wave Disturbances in the Antarctic Region

report submitted for the 13th General Assembly IUGG, (Oceanography) Berkeley,
California, 19-31 Aug 63

RYZHEV, Yu. I.

Electric power and equipment in the chemical industry.
From. energ. 13 no.7:1-3 JI '58.

(MIRA 11:10)

1. Glavnyy energetik Ministerstva khimicheskoy promyshlennosti.
(Chemical engineering--Equipment and supplies)

"Reversible Reaction Between Sulfhydryl and Carbonyl Compounds," Biokhim., 11, No. 5,
1946. Mbr., Biochemistry Lab., Sanatorium Barvicha, Moscow, -1946-.

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Reversible reaction between sulfhydryl and carbonyl compounds. A. P. Ryzheva (Barvikh Sanitarium, Moscow). *Biokhimiya* 11, 391-400(1946).—The addn. in aq. soln. of 1 mole of an HS compd. to 1 mole of an aldehyde, pyruvic acid, or a glyoxal (ketones excepted), results in the formation of an unstable, readily dissoed. compd. The addn. products were not isolated, but their existence was proved by the fact that the SH group consumed much less iodine in the presence of aldehydes, pyruvic acid, and glyoxals. H. Priestley

CONCORD ELEMENTS

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

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FROM SYNONYMS AND ALIEN CREDITS

LETTERS

STEELE, GEORGE

GROUPS

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CA

11B

A micromethod for the determination of lecithin in the blood. A. P. Ryshewa. *Lab. Prakt.* (U. S. S. R.) 1939, Sammelband. 64-6; *Chem. Zentr.* 1940, I, 618.—The method of Polano, Schaff and Rothschild (cf. F. Rothschild, *Klin. Wochschr.* 13, 792-3(1936)) for the detn. of lipid P was so modified that a small amt. of blood (0.2 cc.) was sufficient for a colorimetric detn. and this procedure could be substituted for the detn. that employs the step-photometer. Values found for the concn. of lecithin by this method varied from 8.3 to 10.0 mg. per 100 cc. of plasma for healthy individuals and 7.2 to 11.3 mg. per 100 cc. for tubercular individuals with old, destructive pulmonary processes.
M. G. Moore

CHEMICAL ELEMENTS

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ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

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BABICHEV, F.S.; MOKROVA, L.N.; RYZHEVA, L.V.

Benzothiazolylalkylcarboxylic acids and their derivatives.

Part 3: Some 2-benzothiazolylhydroxyalkyl- and oxoalkyl-
carboxylic acids. Zhur.ob.khim. 32 no.2:506-510 F '62.

(MIRA 15:2)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko.
(Acids, Organic)

RYZHEVSKIY, A., inzh. (Penza)

Device for digital measurement of capacitance and resistance.
Radio no.1:44-46 Ja '66. (MIRA 19:1)

RYZHEVSKIY, V.V., prof., doktor tekhn. nauk

Using mathematical methods and computers at open pit mining
operations. Gor. zhur. no.23-8 P '65. (MIRA 18:4)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

1. RYZHEY, I.P.
2. USSR (600)
4. Wheat
7. Obtaining ramosé winter wheat from ordinary soft wheat by scientific breeding.
Dost.sel'khoz. no.1, 1952.

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

RYZHNY, Ivan Petrovich

[Developing winter wheat varieties with large and compound ears]
Vyvedenie sortov ozimoi pshenitsy s krupnym i slozhnym kolosom.
Frunze, Kirgizskoe gos. izd-vo, 1955. 65 p. (MLRA 10:1)
(Wheat breeding)

USSR/Cultivated Plants - Grains

M-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1476

Author : I. Ryzhey

Inst : Not Given

Title : Split Harvest of Winter Wheat

Orig Pub : S. kh. Kirgizii, 1956, No 6, 19-22

Abstract : The results are given of an analysis of varieties of winter wheat, listing their weight per 1000 grains, the nature and glassiness of the grain, the dynamics of dry matter accumulation in the grain, and the amount of albumin in the grain, in relation to their ripeness and periods of harvesting on a portion of the Kirgiz selection station. The quality of the grain, its physical and biochemical properties were paramount during harvesting in the phase of waxy ripeness. It is recommended that the kolkhozes and sovkhoses of Kirgiz carry out split harvesting of winter wheat. It is emphasized that the variety of winter-crop wheat "Pseudomeridionale-122" should be harvested during the complete ripeness, inasmuch as the variety does not appear to transfer its nutritious matter from the chaff into the grain during the waxy ripeness phase.

Card : 1/1

RYZHAI, Ivan Petrovich

[New method for breeding wheat] Osnova novoi metodiki po semenovod-
stvu pshenitsy. Frunze, Ministerstvo sel'skogo khoziaistva Kirgizskoi
SSR, 1958. 26 p. (MIRA 14:8)

(Wheat breeding)

The productivity of wheat flowers depends on flowering time.
Dokl. Akad. sel'khoz. 23 no.1:8-10 '58. (MIRA 11:5)

1. Kirgizskiy institut zemledeliya. Predstavleno akademikom I. Ye.
Glushchenko.

(Wheat)

IVANOV, Yakov Andreyevich, kand. sel'khoz. nauk, nauchnyy sotr.;
RYZHEY, Ivan Petrovich, kand. biolog. nauk, nauchnyy sotr.;
ZAVGORODNYAYA, Yelena Tikhonovna, nauchnyy sotr.; TAPLOVA,
Yekaterina Alekseyevna, nauchnyy sotr.; MOISEYEV, Aleksandr
Nikiforovich, nauchnyy sotr.; ABDUMANAPOLOV, S., red.;
NOSOVETS, F.G., red.; BEYSHENOV, A., tekhn. red.

[Field testing of grain, oilseed, and forage crops in the
Kirghiz S.S.R.] Aprobatsiia zernovykh, maslichnykh i kor-
movykh kul'tur v Kirghizskoi SSR. Frunze, Kirghizskoe izd-vo,
1959. 174 p. (MIRA 15:3)

1. Kirghizskiy nauchno-issledovatel'skiy institut zemledeliya
(for Ivanov, Ryzhey, Zavgorodnyaya, Teplova, Moiseyev).
(Kirghizistan--Grain breeding)
(Kirghizistan--Oilseed Plants)
(Kirghizistan--Forage plants)

RYZHEY, I.P., kand.biolog.nauk

Biological principles of the new method of producing wheat seed.
Agrobiologia no.2:258-268 Mr-Apr '59. (MIRA 12:6)

1. Kirgizskiy nauchno-issledovatel'skiy institut zemledeliya,
g. Frunze. (Wheat) (Seed production)

RYZHEY, I.P., kand.biologicheskikh nauk

Formation of durum wheat from soft wheat. Agrobiologia no.5:787
S-O '62. (MIRA 15:11)

1. Kirgizskiy institut zemledeliya, Frunze.
(Wheat breeding)

USSR / Cultivated Plants. Plants for Technical Use. M-5
Sugar Plants.

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73052.

Author : Voskresenskaya, G. S.; Ryzheyeva, O. I.

Inst : Not given.

Title : Condition and Perspectives for Cultivation of Oil-
Bearing Plants in Western Siberia and Krasnoyarskiy
Kray.

Orig Pub: V sb.: Maslichn. kul'tury v vost. r-rakh SSSR. Kras-
nodar, "Sov. Kuban'", 1958, 5-24.

Abstract: No abstract.

Card 1/1

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Safflower

Vegetative hybridization of safflower and sunflower. Sel. i zem. 19 no. 5, 1952

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

RYZARSKIY

RYZARSKIY, I.

"Scare twice before you cut." Zhil stroi. no.10:20-21 0 '61.
(MIRA 14:10)

J. Upravlyayushchiy trustom Kaznetstroy, g. Gur'yev.
(Apartment houses)

BOBKOVA, T.P., prepodavatel' kursov kroyki i shit'ya; GURBO, A.I., prepodavatel' kursov kroyki i shit'ya; ZHIVAYEVA, Ye.I., prepodavatel' kursov kroyki i shit'ya; ZEMSKOVA, O.V., prepodavatel' kursov kroyki i shit'ya; LYSENKO, A.V., prepodavatel' kursov kroyki i shit'ya; MARTOPLYAS, L.V., prepodavatel' kursov kroyki i shit'ya; MARTYNOVA, F.V., prepodavatel' kursov kroyki i shit'ya; PANOVA, V.P., prepodavatel' kursov kroyki i shit'ya; POMINOVA, M.G., prepodavatel' kursov kroyki i shit'ya; RYZHICHKINA, M.I., prepodavatel' kursov kroyki i shit'ya; SYCHEVA, T.A., prepodavatel' kursov kroyki i shit'ya; FILANOVICH, O.F., prepodavatel' kursov kroyki i shit'ya; BRUNEVSKAYA, M., red.; TRUKHANOVA, A., tekhn. red.

[Practical handbook on garment cutting and sewing] Prakticheskoe posobie po kroiike i shit'iu. 4. izd. Minsk, Gos.izd-vo BSSR Red. nauchno-tekhn.lit-ry, 1961. 607 p. (MIRA 14:12)

1. Minskiy Okruzhnoy Dom ofitserov im. K.Ye.Voroshilova i klub im. F.E.Dzerzhiskogo (for all except Brunevskaya, Trukhanova).
(Dressmaking—Pattern design) (Sewing)

2118. Ryzhikov, A.A.

Teoreticheskiye Osnovy Liteynogo Proizvodstva. Mo Skva-Sberdlovsk, Mashchgiz,
(Uralo-Si B. Otd-Nie), 1954. 332s.s. Ill. 23 sm. 8.000 EKZ. 13r. V Per.
(54-56407)p

RYZHNIK

ASST METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

001

Vroloff and Ryzhik. CARBON BLOCKS: THEIR MANUFACTURE AND PROPERTIES. *Opneupory*, 1, 1-10 (1933).

ASST METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTER 2ND LETTER 3RD AND 4TH LETTER MATERIALS INDEX

AS - ST & METALLURGICAL LITERATURE CLASSIFICATION

Vroloff and Ryzhik. CARBON BLOCKS: THEIR MANUFACTURE AND PROPERTIES. *Ognespory*, 1, 4-10 (1933).

PROCESSES AND PROPERTIES INDEX 1ST AND 2ND LETTER 3RD AND 4TH LETTER

COMMON VARIABLE INDEX
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RYZHIK, A.N.; YUKVIDOVA, Zh.M.

New method of conservative therapy in nonspecific ulcerative
colitis. Eksper. khir. 5 no. 2:36-38 Mr-Apr '60. (MIRA 14:1)
(COLITIS)

RYZHNIK, A.N., prof.; VISHNEVSKIY, A.A., prof., zasl. deyatel' nauk, red.;
INBERG, A.I., red.; BASENKO, L.I., tekhn. red.

[Atlas of surgery on the rectum and large intestine] Atlas operatsii na priamoi i tolstoi kishkakh. Pod red. A.A.Vishnevskogo. Moskva, Izdatbiuro tresta "Meduchposobie," 1960. 282 p.

(MIRA 14:9)

1. Zaveduyushchiy proktologicheskim otdeleniyem Gosudarstvennogo onkologicheskogo instituta imeni P.A.Gertsena i nauchnyy rukovoditel' klinicheskoy bol'nitsy no.18 im. Oktyabr'skoy revolyutsii gor. Moskvyy (for Ryzhikh). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Vishnevskiy).

(SURGERY, OPERATIVE—ATLASES) (RECTUM—SURGERY) (INTESTINES—SURGERY)

Ryzhik
SOKOL, G.M.; RYZHIK, A.R.

Controlling home and street accidents in Kharkov. Ortop.travn. i
protez. 17 no.6:130-131 N-D '56. (MLRA 10:2)

1. Iz Ukrainського naučno-issledovatel'skogo instituta ortopedii i
travmatologii im. M.I.Sitenko (direktor - zaslužhennyi deyatel'
nauki professor N.P.Novachenko)
(KHARKOV—ACCIDENTS--PREVENTION)

RYZHNIK, D.I.; VASSERMAN, D.M.

Course and treatment of catarrhs of the upper respiratory tracts
and nonspecific pneumonia in children. Sbor. nauch. trud. TashGMI
22:94.99 '62. (MIRA 18:10)

1. Kafedra detskikh bolezney sanitarnogo fakul'teta (zav. kafedroy
prof. I.S.Aleksandrova) Tashkentskogo gosudarstvennogo meditsinskogo
instituta.

RYZHNIK, D. L.

1410. Use of folic acid in treatment of children's diseases. K. G. Titov and D. L. Ryzhnik *Pediatr. Zh.* 1955, 1, 49-54. *Soviet Zh. Biol.* 1955, Abstr. No. 51957. In cases of anaemia consequent upon a deficient diet, producing hypo- or avitaminoses or upon tuberculosis, the therapeutic effect of folic acid was found to be completely reliable. As a rule the haemoglobin and erythrocyte counts were restored in the course of 2-3 weeks. Erythropoiesis is inhibited by folic acid, the number of cell divisions of the erythroblasts decreases and they mature more readily. Leucopoiesis also returns to normal. Together with the improvement in intracellular fermentative processes, the appetite and wt. increase. (Russian)

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Tashkent Med Inst

Spetsial'nyye funktsii. Sobraniye formul i uspomogatel'nykh tablits. M.-L., G.II (1936),
1-160

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.,
Merkushevich, A. I.,
Pashevskiy, P. K.
Moscow-Leningrad, 1948

RYZHIK, I. M.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 629 - I

BOOK

Call No.: AF467797

Authors: RYZHIK, I. M. and GRADSHTEYN, I. S.

Full Title: TABLES OF INTEGRALS, SUMS, SERIES, AND PRODUCTS. 3d ed.
revised

Transliterated Title: Tablitsy integralov, summ, ryadov i
proizvedeniy. 3 izd. pererabotannoye

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and
Theoretical Literature

Date: 1951

No. pp.: 464

No. of copies: 15,000

Editorial Staff

Editors: B. S. Vilenskaya, Yu. V. Geronimus, S. N. Akhlamov,
G. N. Nelidova, L. O. Secheyko

Contributors: S. B. Stechkin, A. Ya. Dubovitskiy, I. N. Bronshteyn

PURPOSE: The book is dedicated mainly to scientific workers and re-
search engineers in the field of physico-mathematical sciences to
fill a long-felt absence of a suitable reference book.

TEXT DATA

Coverage: In the preface to the first edition, the authors state that
the book presents a compendium of formulae with little explanatory
text. In the preface to this third edition, prepared by I. S.

Tablitsy integralov, summ, ryadov i proizvedeniy.
3 izd. pererabotannoye

AID 629 - I

Gradshteyn, after the death of I. M. Ryzhik, the author mentions the substantial changes made in the book and in its plan. The text is divided into an introduction, eight chapters, an index of special functions, lists of symbols, and literature. The introduction covers finite sums, numerical series, function series and some differential formulae. Ch. 1 includes elementary functions: binomials and exponential, trigonometric, hyperbolic, logarithmic, inverse trigonometric and inverse hyperbolic functions; ch. 2 gives indefinite integrals of rational, algebraic, exponential, trigonometric, logarithmic, inverse, and special functions; ch. 3, definite integrals of elementary functions; ch. 4, definite integrals of special functions: elliptic, Euler, cylindrical, spherical, etc.; ch. 5, integral transformations: Fourier, Laplace, Hankel; ch. 6 and 7, special functions and integrals (elliptic, exponential, Euler, cylindrical, Mathieu), polynomials, degenerated hypergeometric, Riemann's ζ functions, Bernoulli polynomials; Ch. 8, numerical tables of functions: Lobachevskiy's $L(x)$, Bernoulli, Riemann, Euler and constants of Euler and Catalan. Special symbols and designations are used in the subject index.

No. of References: Total number 40, 1867-1951, of which 27 are in Russian, 5 in English, 4 in French, 4 in German.

Facilities: None

RYZHIK, I. M. and GRADSHTEYN, I. S.

Tables of Integrals, Summations, Progressions, and Products, State Publishing
House of Technical-Theoretical Literature, Moscow-Leningrad, 1951.

Book-CS-G-EG-1205

RYZ

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0

*Ryžik, I. M., i Gradštejn, I. S. *Tablicy integralov, summ, ryadov i proizvedenij.* [Tables of integrals, sums, series and products.] 3d ed. Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow-Leningrad, 1951. 464 pp. 20.45 rubles.

Table of contents: Introduction; Elementary functions; Indefinite integrals; Definite integrals of elementary functions; Definite integrals of special functions; Integral transforms; Special functions; Numerical tables. The material is mostly from standard sources with the sources indicated; e.g., Bierens de Haan, *Nouvelles tables d'intégrales définies* [Amsterdam, 1867], Magnus and Oberhettinger, *Formeln und Sätze* . . . [Springer, Berlin, 1948; these Rev. 10, 38], Whittaker and Watson, *A course of modern analysis* [Cambridge, 1927].

SO: MATHEMATICAL REVIEWS (unclassified)
Vol. 14, No. 7, July-Aug. 1953, pp.609-712.

RYZHIK, IOSIF MOYSEYEVICH

Science

Tables of integrals, sums, series and products Moskva, Gos. izd-vo tekhniko-teoret.
lit-ry, 1951.

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

RYZ

APPROVED FOR RELEASE: Thursday, September 26, 2002

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APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446520009-0

Mathematical Reviews
Vol. 14 No. 7
July - August 1953
Analysis

* Ryzik, I. M., i Gradštein, I. S. Tablitsy integralov, summ, ryadov i proizvedenii. [Tables of integrals, sums, series and products.], 3d ed. Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow-Leningrad, 1951. 464 pp. 20.45 rubles.
Table of contents: Introduction; Elementary functions; Indefinite integrals; Definite integrals of elementary functions; Definite integrals of special functions; Integral transforms; Special functions; Numerical tables. The material is mostly from standard sources with the sources indicated; e.g., Bierens de Haan, Nouvelles tables d'intégrales définies [Amsterdam, 1867], Magnus and Oberhettinger, Formeln und Sätze . . . [Springer, Berlin, 1948; these Rev. 10, 38], Whittaker and Watson, A course of modern analysis [Cambridge, 1927].

GRADSHTEYN, Izrail' Solomonovich; RYZHIK, Iosif Moiseyevich; Primali
uchastiye: GERONIMUS, Yu.V.; TSEYTLIN, M.Yu.; LAPKO, A.F.,
red.; KRYUCHKOVA, V.N., tekhn. red.

[Tables of integrals, sums, series, and products] Tablitsy in-
tegralov, summ, riadov i proizvedenii. Izd.4., 'perer. pri
uchastii I.U.V.Geronimusa i M.IU.Tseitlina. Moskva, Gizmatgiz,
1962. 1100 p. (MIRA 15:9)

(Mathematics—Tables, etc.)

Ryzhnik, L. A. - "Data on the toxicologic evaluation of hydrolyzed and sulfite alcohols as solvents," In symposium: Issledovaniya v oblasti prom. toksikologii, Leningrad, 1948, p. 164-88 - Bibliog: 17 items

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

RYZHIK, L.A., kand. med. nauk

Current state of dust control in the crushing departments of
dressing plants of ferrous and nonferrous metallurgy. Bor'ba
s sil. 6:136-139 '64 (MIRA 18:2)

1. Gosudarstvenny nauchno-issledovatel'skiy institut gigiyeny
truda i professional'nykh zabolevaniy Ministerstva zdravookhra-
neniya RSFSR, Leningrad.

VILYAVIN, G. D.; RYZHIK, L. Ye.

Results of penicillin therapy of erysipeloid. Sovet. med.
no.8:30 Aug 1951. (CJML 20:11)

1. Moscow.

RYZHNIK, L.Ye.

ARIYEVICH, A.M., professor; RYZHIK, L.Ye.

Nonmycotic erosion appearing between the fingers. Vest.ven.i derm.
no.2:26-28 Mr-Ap '54. (MLRA 7:4)

1. Iz 'Sentral'nogo kozhno-venerologicheskogo instituta Ministerstva
zdravookhraneniya SSSR (direktor - kandidat meditsinskikh nauk N.M.
Turanov). (Skin--Diseases)

RYZHIK, M.A.

Quality index of the performance of a cam with a flat follower.
Teor. mash. i mekh. no. 96/97:91-97 '63. (MIRA 17:1)

RYZHIK, M.A.

Selection of optimum purity for frictional surface finishes.
Avt. trakt. prom. no.5:20-22 My '55. (MIRA 8:8)

1. Kutaiskiy avtozavod.
(Surfaces (Technology))

RYZHIK, M.A.

Saddle truck with a semi-dump trailer for hauling cotton. Avt. 1
trakt. prom. no.2:6-8 F '56. (MIRA 9:6)

1. Kuttaisskiy avtozavod.
(Automobiles--Trailers)

RYZHNIK, M. A.

2

U S S R .

11768* Problem of the Choice of the Optimum Smoothness of Finish of Friction Surfaces. K. voprosu o vybere optimal'noi chistoty obrabotki trashchikhatai poverkhnosti. (Russian) M. A. Ryzhik. *Automobil'naya promyshlennost'*, 1955, no. 5, May, p. 20-21.
Polishing and grinding prescriptions established in connection with dimensions and rotations of parts; wear tests. Photographs. 4 ref.

[Handwritten signature]

RYZHNIK, M. A.

Nov/Dec 1946

USSR/Cams

Engines, Gasoline

"Modification of the Profile of Gas Distributor Cams to Prevent Abrasion of the Plunger," M. S. Khanin, M. A. Ryzhik, 3 pp

"Avtomobil'naya Promyshlennost'" No 11/12

Detailed discussion, with diagrams and formulas, of modified profile of cams to prevent abrasion and, to increase usefulness of plungers.

FA 12F37

L 9935-60

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

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61
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ACC NR: AT5028237 DS/JD/WH/JW SOURCE CODE: UR/2631/65/000/006/0011/0017
JG

AUTHOR: Smirnov, M. V.; Ryzhik, O. A. 44,55

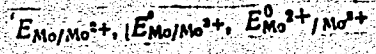
ORG: Institute of Electrochemistry, Ural Branch, Academy of Sciences SSSR (Akademiya nauk SSSR, Ural'skiy Filial, Institut Elektrokhemii) 44,55

TITLE: Equilibrium between molybdenum and its ions in molten lithium chloride 27,55 18 27 27

SOURCE: AN SSSR. Ural'skiy filial. Institut elektrokhemii. Trudy, no. 6, 1965. Elektrokhemiya rasplavlennykh solevykh i tverdykh elektrolitov (Electrochemistry of fused salts and solid electrolytes), 11-17

TOPIC TAGS: molybdenum, lithium chloride, electrode potential 74,55

ABSTRACT: In order to determine the dependence of electrode potentials of molybdenum in a chloride melt on the nature of the alkali metal cations, the authors used the emf method to study the equilibrium between molybdenum and molten lithium chloride containing from 0.27 to 2.49 wt. % Mo in the range of 620 - 950C. Expressions were obtained for the temperature dependence of

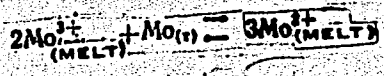


L 9935-66

3

ACC NR: AT5028237

and of the equilibrium constant of the reaction



2) 11115
in molten lithium chloride. The thermodynamic parameters of certain reactions occurring on mixing molten chlorides of alkali metals with lower molybdenum chlorides were determined. Orig. art. has: 4 figures and 1 table.

SUB CODE: 07 / SUBM DATE: None / ORIG REF: 011

L 3781-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5014138

UR/0365/65/001/003/0335/0337
669.28 : 620.193.43

57
54
B

AUTHOR: Smirnov, M. V.; Ryzhik, O. A.; Savochkin, Yu. P.
44,55 44,55

TITLE: Electrochemical corrosion of molybdenum in a chloride melt
44,55 44,55

SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 335-337

TOPIC TAGS: molybdenum, corrosion, potassium chloride

ABSTRACT: The stationary potentials of molybdenum are measured with respect to a chlorine comparison electrode in thoroughly purified molten potassium chloride. The experiments were done at 790-920° in a helium-filled hermetically sealed capsule. The empirical equation for the temperature relationship of the stationary potential of molybdenum in a KCl solution with regard to the thermoelectromotive force between the molybdenum and carbon electrodes is

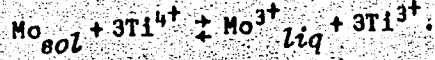
$$E_{st} = -2.082 + 2.47 \cdot 10^{-4} \cdot T \pm 0.004 \text{ v.}$$

Calculations show that corrosion rates in the 800-950° temperature range are of the order of 10^{-7} a/cm² in pure KCl. However, when easily reduced impurities are

L 3781-66

ACCESSION NR: AP5014138

present in the potassium chloride (e. g. tetravalent titanium), molybdenum is strongly corroded as a result of the reaction



In molten salt solutions, molybdenum may also be corroded by contact deposition of less noble metals due to a reduction in free energy when solid solutions or inter-metallic compounds are formed. Orig. art. has: 1 figure, 2 formulas.

ASSOCIATION: Ural'skiy politekhnicheskii institut im. S. M. Kirova (Ural Poly-technical Institute)

SUBMITTED: 14Oct64

ENCL: 00

SUB CODE: MM, GC

NO REF SOV: 008

OTHER: 002

BC
Card 2/2

SALYENOV, M.V.; RYZHIK, G.A.; KAZANTSEV, G.N.

Diffusion of trivalent molybdenum in a medium of fused alkali metal chlorides. Elektrokhimiya 1 no.1:59-62 Ja '65. (MIRA 18:5)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova.

SMIRNOV, M.V.; RYZHIK, O.A.

Inertness of metal electrodes in fused salt electrolyte. Izv.
vys. ucheb. zav.; tsvet. met. 8 no.1:86-89 '65.

(MIRA 18:6)

1. Ural'skiy politekhnicheskiy institut.

L 48969-65 EPA(s)-2/EWT(m)/EPF(c)/EWA(d)/EWP(t)/EWP(z)/EWF(b)/EPF(n)-2
ISP(c) JD/WW/JG

ACCESSION NR: AP5007749 S/0364/65/001/001/0059/0062

AUTHOR: Smirnov, M. V.; Ryzhik, O. A.; Kazantsev, G. N.

TITLE: Diffusion of trivalent molybdenum in a medium of fused chlorides of alkali metals

SOURCE: Elektrokimiya, v. 1, no. 1, 1965, 59-62

TOPIC TAGS: molybdenum, chloride, alkali metal, diffusion coefficient

ABSTRACT: The diffusion of molybdenum in dilute solutions of its trichloride in fused chlorides of alkali metals was studied. The concentration of molybdenum in these melts did not exceed $5 \cdot 10^{-4}$ g-equiv/cm³. Therefore the interaction of its ions was significant only with a salt solvent. The chronopotentiometric method with polarization of the electrode by a current with a constant density higher than the maximum diffusion density was used to measure the diffusion coefficient of the dilute component of the melt. The tests were conducted in hermetically sealed cells in which the gas chamber was filled with thoroughly purified helium (see fig. 1 of the Enclosure). The solvent electrolytes were previously recrystallized chlorides

L 48969-65

ACCESSION NR: AP5007749

of ¹lithium, ¹potassium, and ¹cesium and also eutectic LiCl-KCl. The diffusion coefficient of trivalent molybdenum was calculated according to the equation

$$D = 1.37 \cdot 10^{-6} \left(\frac{MI}{3apS} \right)^2 \tau \text{ cm}^2/\text{sec}$$

where a is the concentration of molybdenum in weight %; M is the molecular weight; I is the strength of current in amperes; S is the area of the cathode in cm^2 ; ρ is the density of the electrolyte in g/cm^3 . As the cation radius of the alkali metal increases, the rate of diffusion of the trivalent molybdenum decreases. The values of the activation energy are linearly related to the inverse magnitudes of the cation radii of the salt solvents. It is suggested that the diffusion process occurs through "jumping" of the molybdenum cations from one point of the quasi-lattice of the fusion to another. Orig. art. has: 3 figures.

ASSOCIATION: Ural'skiy politekhnicheskii institut imeni S. M. Kirova (Ural Poly-technical Institute)

SUBMITTED: 15Sep64

ENCL: 01

SUB CODE: MM, GC

NO REF SOV: 013

OTHER: 003

Card 2/3

L 48969-65

ACCESSION NR: AP5007749

ENCLOSURE: 01

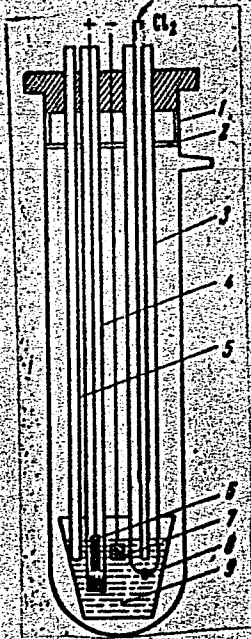


Fig. 1. Cell for measurements: 1--quartz glass test tube; 2--fluoroplastic screen; 3--quartz capsule with chlorine comparison electrode; 4--quartz jacket with diaphragm; 5--chromel-alumel thermocouple; 6--carbon anode on a molybdenum current feeder; 7--platinum cathode; 8--alumina crucible; 9--test electrolyte

Card 3/3

SKIBA, O.V.; SMIRNOV, M.V.; RYZHIK, O.A.

Polarization of the uranium anode in the electrolysis of a
mixture of potassium and sodium chlorides. Trudy Inst.
elektrokhim. UFAN SSSR no.3:41-48 '62. (MIRA 16:6)

(Electrodes, Uranium)
(Alkali metal chlorides)
(Polarization(Electricity))

38683

S/149/62/000/003/005/011
A006/A101

AUTHORS: Nichkov, I. F., Ryzhik, O. A., Raspopin, S. P.

TITLE: The effect of thorium on electrode potentials of bismuth in alkali-metal chloride melts

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no. 3, 1962, 113 - 116

TEXT: To investigate the effect of the cation of a strong complex-forming salt upon bismuth behavior in alkali metal chloride melts, equilibrium potentials of bismuth were measured in such melts, containing thorium and bismuth, at various temperatures (950 - 1,100 K). An equimolar mixture of potassium and sodium chlorides with 3.1 weight percent ThCl_4 and 1.7 weight percent BiCl_3 was used as an electrolyte. After melting the mixture was refined by electrolysis. The emf of the cell were measured every 25 - 30 minutes for 6 - 8.5 hours. The electrolyte temperature was maintained within $700 - 850 \pm 5^\circ\text{C}$. After the experiment the thorium and bismuth content of the electrolyte were analyzed. For comparison, the temperature dependence of a bismuth electrode without ThCl_4 , determined pre-

Card 1/2

S/149/62/000/003/005/011
A006/A101

The effect of...

viously, is given. It appears that bismuth potentials in a KCl-NaCl-ThCl₄-BiCl₃ melt are by about 80 mv more positive than corresponding values in the same melts without thorium tetrachloride. The introduction of a strong complex-forming agent, such as thorium, affects the interaction of Bi³⁺ and Cl⁻ ions, which becomes weaker. The $\text{BiCl}_2^+ + 2\text{Cl}^- \rightleftharpoons \text{BiCl}_4^-$ equilibrium is shifted to the left. Consequently the Bi potential in such melts becomes more positive. There is 1 figure. ✓

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

SUBMITTED: December 20, 1961

S/020/61/141/005/011/018
B103/B110

AUTHORS: Nichkov, I. F., Ryzhik, O. A., and Rasporin, S. P.

TITLE: Interaction of bismuth chloride and chlorides of the alkali metals

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 5, 1961, 1113-1116

TEXT: The nature of the interaction of BiCl_3 with KCl and NaCl was determined between 700 and 850°C. The equilibrium potentials of metallic bismuth were measured for this purpose in electrolytes of different BiCl_3 contents in quartz test tube (Fig.). Electrolytically purified Bi was added after complete fusion of the equimolar chloride mixture. BiCl_3 was produced in the electrolyte by anodic dissolution of a part of the Bi contained in the crucible. A molybdenum electrode was placed in the electrolyte contained in the quartz test tube such that the crucible served as diaphragm separating anolyte and catholyte. The test tube was evacuated and filled with purified helium. The Bi potentials were measured related to the chlorine reference electrode by a highly resistant ППТВ-1 (PPTV-1) potentiometer, a galvanometer having a sensitivity of

S/O20/61/141/005/011/018
B103/B110

Interaction of bismuth chloride ...

10^{-9} a per scale division was used as null detector. The melt was heated by an autotransformer and its temperature was kept constant by the two measuring instruments. A decrease of the emf-values between the Bi and the Cl electrode was found with decreasing temperature; these values were measured at different temperatures in melts containing 1.13 (1), 3.05 (2), and 12.06 (3) % by weight of Bi. The points experimentally found fall satisfactorily on the straight lines satisfying the following empirical equations: $E_1 = 1.446 - 2.95 \cdot 10^{-4} T$ v; $E_2 = 1.412 - 2.90 \cdot 10^{-4} T$ v; $E_3 = 1.378 - 3.00 \cdot 10^{-4} T$ v. The measured values included besides the electrochemical potential difference desired the thermo-emf between molybdenum and carbon conductors with reversed sign. Its temperature dependence is: $E_T = 0.008 - 0.17 \cdot 10^{-4} T$ v. If the thermo-emf between the graphite bar of the Cl electrode and the Mo conductor to Bi is considered, the Bi equilibrium potentials related to the Cl reference electrode are identical. It is concluded from the values measured that the equilibrium potential of metallic Bi related to the Cl reference electrode is expressed by the thermodynamic Nernst equation. This means that the liquid Bi electrode is reversible as to the Bi^{3+} ions in chloride melts. These

Card 2/5

Interaction of bismuth chloride ...

S/020/61/141/005/C11/018
B103/B110

behave as ideal solutions in the BiCl_3 concentration range investigated.

On the assumption that this ideal behavior continues in the entire BiCl_3 concentration range up to pure melted BiCl_3 , the emf of the cell

$\text{Bi}|\text{BiCl}_3(\text{melt})|\text{Cl}_2, \text{C}$ should be $E_e = 1.338 - 3.376 \cdot 10^{-4}T$ v, calculated on

the basis of the authors' experimental data. The temperature dependence of the emf of such a cell is (calculated on the basis of Ref. 9, see below):

$E_T = 1.254 - 5.750 \cdot 10^{-4}T$ v. The difference $E_e - E_T = 0.084 - 2.374 \cdot 10^{-4}T$ v

is mainly due to the fact that the melts cease to be ideal solutions at high BiCl_3 concentrations. This means that changes in concentration are

accompanied by a regrouping of the Bi ions; the nature of this regrouping is determined by $E_e - E_T$. It corresponds to the change of the isobaric

potential on transition from pure melted BiCl_3 to its dilute solutions

which behave as ideal solutions: $\Delta Z_{\text{mix}} = -3F(E_e - E_T) = (-5811 - 16.42T)\text{cal/mole}$

It is evident that the mixing of the salts entails an interaction in which heat ($\Delta H_{\text{mix}} = 5.61$ kcal) is evolved and the entropy ($\Delta S = 16.42$ cal/deg·mole)

Card 3/5

Interaction of bismuth chloride ...

S/020/61/141/005/011/018
3103/3110

increases. Thus, it is proved that the bonds between the Bi^{3+} ions and the chloride anions become stronger and that complex groups of the anion type are formed. The short-range order of the ions in the melt is altered by the Bi^{3+} ions. The remaining Bi^{3+} ions bind the Cl ions stronger than this is done by the ions of the alkali metals. Probably for this reason, Bi is found in dilute solutions mainly in the form of anion complexes of the $\text{BiCl}_n^{(n-3)-}$, where $n > 3$. With regard to the change of the isobaric

potential, known in itself (Ref. 9, see below), it is stated that this value can equally be calculated from ΔZ_{mix} by extrapolation to the temperature 298°K , whereby the latent heat (2.6 kcal/mole) and the melting entropy (5.2 cal/deg·mole) have to be considered. $\Delta Z\text{BiCl}_4^-$ was found to be

-6.56 kcal/mole. It is concluded that Bi is contained in form of anion complex groups in the melts mentioned: BiCl_4^- . There are 3 figures and

11 references: 8 Soviet and 3 non-Soviet. The three references to English language publications read as follows: Ref. 9: W. Hamer, M. Maltberg, B. Rubin, J. Electrochem. Soc. 103, 8 (1956); Ref. 10: Noies, Holl, Vitti, J. Am. Chem. Soc., 22, 2526 (1917); V. Latimer, Gkislitel'noye sostoyaniye

Card 4/5

Interaction of bismuth chloride ...

S/020/61/141/005/011/018
B103/B110

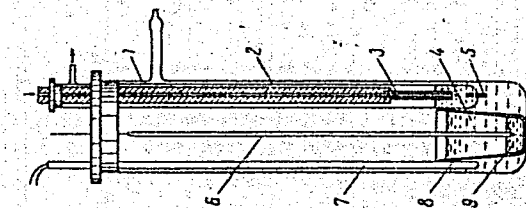
elementov i ikh potentsialy v vodnykh rastvorakh (Oxidative state of elements and their potentials in aqueous solutions), IL, 1954.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova
(Ural Polytechnic Institute imeni S. M. Kirov)

PRESENTED: July 14, 1961, by V. I. Spitsyn, Academician

SUBMITTED: July 10, 1961

Fig.



Card 5/5

RYZHIK, S.D., inzhener

Device for unloading dry substances from platforms and open cars. Mekh.trud.rab. 9 no.5.15-17 My '55. (MIRA 8:7)
(Loading and unloading)

USSR/Miscellaneous - Building materials

Card : 1/1 Pub. 71 - 13/17
Authors : Ryzhik, S. D., Engineer
Title : Production of ferro-concrete materials for housing construction
Periodical : Mekh. trud. rab. 4, 33 - 36, June 1954
Abstract : The production of ferro-concrete materials for construction of residential dwellings, is described. Illustrations.
Institution : ...
Submitted : ...

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0"
RYZHIK, S.D., inzhener.

Reinforced concrete block plant for residential buildings. Mekh.trud.
rab. 8 no.4:33-36 Je '54. (MLRA 7:6)
(Precast concrete construction)

RYZHIK, V.L.; BRAVO, A.L.; EYGENBROT, I.M.

Automatic control system for parallel operating welding units
depending on the loads in buses. Avtom.i prib. no.1:12-18
Ja-Mr '62. (MIRA 15:3)

1. Trest "Sevzapmontazhavtomatika".
(Electric welding) (Automatic control)

ARTYNTSIV, O.F. (Moskva); RYZHIK, V.M. (Moskva)

Investigating the process of the displacement of oil by water in
heterogeneous pools. Izv. AN SSSR. Mekh. no.5:175-181 S-0 '65.
(MIRA 18:10)

BAN, Akosh; BOGOMOLOVA, Antonina Fedorovna; MAKSIMOV, Valeriy
Aleksandrovich; NIKOLAYEVSKIY, Viktor Nikolayevich;
OGANDZHANYANTS, Vladimir Grigor'yevich; RYZHIK, Viktor
Mikhaylovich; CHERNYI, I.A., red.; KAYESHKOVA, S.M., ved.
red.; POLOSINA, A.S., tekhn. red.

[Effect of the properties of rocks on the fluid flow in them]
Vliianie svoistv gornyykh porod na dvizhenie v nikh zhidkosti.
[By] A. Ban i dr. Moskva, Gostoptekhizdat, 1962. 274 p.
(MIRA 16:2)

(Oil reservoir engineering)

KOROVYAKOVSKIY, I.G., inzh.; CHERNUSSKIY, A.I., inzh.; BARTALOG, A.F., inzh.;
SHCHAVLINSKIY, V.A., inzh.; RYZHIK, V.M., inzh.

RLND-150 type separators with two reversible columns. Energ. i
elektrotekh. prom. no.3:21-23 J1-S '64.

(MIRA 17:11)

RYZHIK, V.M. (Moskva)

Shape of the steady boundary of flooding gas from a two-layer bed.
Izv. AN SSSR. Otd. tekhn. nauk. Mekh. i mashinostr. no. 5:40-48 '60.

(MIRA 13:9)

(Gas flow)

(Oil field flooding)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446520009-0
CIA-RDP86-00513R001446520009-0"

RYZHIN, V.M. (Moskva)

Oil displacement by water in a porous medium with low-permeability
inclusions. Izv. AN SSSR. Mekh. i mashinostr. no. 1:126-132 J.-F
'64. (MIRA 17:4)

VEZIROV, D.Sh. (Moskva); RYZHIK, V.M. (Moskva)

Displacement of oil by water from fractured porous media. Izv.
AN SSSR Mekh. i mashinostr. no.6:152-159 N-D '64.

(MIRA 18:2)

IL'SHTEYN, A.M., doktor tekhn. nauk; LIBERMAN, Yu.M., kand.
tekhn. nauk; MEL'NIKOV, Ye.A., kand. tekhn. nauk; RAKHIMOV, V.,
kand. tekhn. nauk; RYZHIK, V.M., kand. fiz.-matem. nauk

[Methods of calculating pilars and ore blocks of chambers in
ore deposits] Metody rascheta tselikov i potolochin kamer
rudnykh mestorozhdenii. Moskva, Nauka, 1964. 141 p.
(MIRA 18:3)

RYZHIK, V.M. (Moskva); CHARNYI, I.A. (Moskva); CHEN' CHZHUN-SYAN
[Chen Chung-hsiang] (Moskva)

Some accurate solutions of equations of unsteady flow of a
two-phase fluid. Izv. AN SSSR. ⁰td. tekhn. nauk. Mekh. i mashinostr.
no. 1:121-126 Ja-F '61. (MIRA 14:2)
(Oil well flooding)

06173

10.4000

S/179/59/000/06/029/029
E081/B141

AUTHOR: Ryzhik, V.M. (Moscow)

TITLE: The Mechanism of Capillary Impregnation in Porous Media 710

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 6, pp 151-153 (USSR)

ABSTRACT: The paper gives a treatment of capillary impregnation, allowing for the experimentally observed fact that the gas in the body is not completely replaced by liquid, and that appreciable amounts of residual gas remain after impregnation. Using D'Arcy's law (Eq 1) an equation (the equation given on p 151 between Eqs (3) and (4)) is obtained for the filtration velocity, assuming the viscosity of the gas to be small compared with that of the liquid. This equation, in conjunction with the continuity equation (2) for the liquid leads to the partial differential equation (4) containing the capillary pressure (p_c), the degree of saturation (ρ) by the liquid and the porosity m . By transforming the variables, an ordinary differential equation (6) is obtained. If the function Φ in Eq (6) has the form $\Phi(\rho) = \rho^m$, then according to Ref 2

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1/2

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E081/E141

The Mechanism of Capillary Impregnation in Porous Media

$$\rho(\xi) = a_0(\xi - c)^\gamma \left[1 + (\xi - c) a_1 + a_2 (\xi - c)^2 + \dots \right] \quad \left(\gamma = \frac{1}{n-1} \right) \quad (7)$$

and the relationship between ρ and ξ is shown in Fig 1 for $n = 3/2$ and $n = 5/2$. The approximate solution of Eq (6), based on $\Phi(\rho) = \rho^n$ leads to Eq (10), which can be written in the form $v^2 = Ct$, where V is the volume absorbed in time t , and C is a constant related to the mean size of the pores. The data of A.A. Kocheshkov (Dissertation, Moscow Petroleum-Chemical Institute) are plotted as v^2 against t in Fig 2, and verify the predicted relationship. Thanks are expressed to A.A. Kocheshkov for permitting the use of experimental data. There are 2 figures and 2 Soviet references.

Card
2/2

SUBMITTED: August 30, 1959

RYZHIK, V.M. (Moskva)

Review of works on reciprocal displacement of immiscible liquids
from a porous medium. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr.
no.2:130-141 Mr.-Ap '61. (MIRA 14:4)
(Oil field flooding)

RYZHNIK

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CIA-RDP86-00513R001446520009-0

PA 00149

USSR/Engineering
Welding, Arc
Welding, Electrodes

Apr 1948

"Producing Cutting Machines for Electric Arc Weld
Seams With Specially Insulated Electrodes," Z. M.
Ryzhik, Engr, 1½ pp

"Avtogen Delo" No 4

Describes various steps and actual performance of the
steps in the subject method for producing cutting ma-
chines. Describes method to insulate electrodes,
technology of the process of welding, mechanical and
thermal processing of the miller, and methods to con-
trol the quality of the finished product.

788

66T49

RYZHNIK,

APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R001446520009-0

IR 20/4744

USSR/Engineering
Soldering
Solder

Sep 48

"Soldering With Copper-Phosphorus Solder Instead of Silver," Z. M. Ryzhik, Engr, $\frac{1}{2}$ p

"Avtogennoye Delo" No 9

Describes preparation of copper-phosphorus solder and discusses control of chemical composition and quality of the joint (Cu - P thermoequilibrium diagram).

FDB

20/49T47

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
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

PROCESSES AND PROPERTIES INDEX
1ST AND 2ND ORDERS

M

The Application of Electric-Contact Soldering Using Phosphor-Copper.
Z. M. Ryzhuk (*Arty. Delo*, 1949, (2), 21-23). [In Russian]. It describes the use of an electric-contact method for soldering rotor and stator windings in which tin solder is replaced by phosphor-copper strip containing 0.8% phosphorus. Apart from the saving of tin, the semiautomatic nature of the process results in considerable economy of labour. —N. B. V.

ASME 112 METALLURGICAL LITERATURE CLASSIFICATION
1ST AND 2ND ORDERS

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

AUTOMATIC WELDING OF SMALL PARTS. Z. M. RYZHIK . (KMSI
AVTO. DELO № 1949, No. 5. pp 21-23) (In Russian) An
account is given of the successful use of automatic sub-
merged arc welding in the manufacture of offlanged cylinders
and lids of low-carbon steel, about 400 and 500 mm. in
diam. respectively, for explosion-proof electric motors.
The replacement of the manual by the automatic technique
of arc welding increased productivity 500-600% and
greatly improved the regularity and quality of the seams.

SK

USSR/Engineering
Soldering
Electrical Equipment

Jul 49

"Soldering Gas Apparatus With Copper Solder of High Phosphoric Content," Z. M. Ryzhik, Engr, $\frac{1}{2}$ p

"Avtogen Delo" No 7

In recent years there has been increasing use of copper-phosphorus solder for soldering in electrical equipment because of a critical shortage of silver and tin solder. Usually copper-phosphorus solder contains 7% phosphorus by weight. Describes factory use of a 13% phosphorus solder which melts at 705 to 830° C. Describes preparation of the FDD solder, and methods for using it. 53/49T45

RYZHIK, Z.M.

USSR/Engineering - Brazing

Jun 51

"Brazing of Steel Pieces With Cast Iron," Z. M.
Ryzhik, Engr

"Avtogen Delo" No 6, p 26

Practical experience of one of Leningrad plants revealed possibility of using gray cast iron for brazing certain steel products instead of riveting them or brazing with copper. Tensile strength of joint corresponds to that of cast iron itself. Method simplified technological process and decreased production cost considerably.

200T38

RYZHENKOV, V. Ye. Cand Med Sci -- (diss) "Reflexes from carotid chemoreceptors
to the function of the adrenal-gland-cortex." ^{Cortex of the suprarenal glands} Len, 1959. 19 pp (Min of
Health RSFSR. Len Sanitary Hygiene Med Inst), 200 copies (KL, 47-59, 117)

ANICHKOV, S.V.; ZAVODSKAYA, I.S.; RYZHENKOV, V.Ye.

Principle of nervism in pharmacotherapy (effect of neurotropic drugs on vegetative reflexes and the trophic processes of the stomach wall.) Uch. zap. Inst. farm. i khimioter. AMN SSSR 3: 14-23'63. (MIRA 16:9)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.
(AUTONOMIC DRUGS) (STOMACH)

ANICHKOV, Sergey Viktorovich; BELEN'KIY, Maks L'vovich; RYZHENKOV,
V.Ye., red.; VOLKOV, N.V., tekhn. red.

[Pharmacology of the chemoreceptors of the glomus caroticum]
Farmakologiya khimioretseptorov karotidnogo klubochka. Le-
ningrad, Medgiz, 1962. 199 p. (MIRA 15:11)
(CAROTID BODY--INNERVATION) (PHARMACOLOGY)

RYZHENKOV, V.Ye. (Leningrad)

Role of reflexes from the carotid chemoreceptors in the action of nicotine, cerconium, and sodium sulfide on 17-hydroxycorticosteroid secretion by the adrenals in dogs. Probl.endok.i gorm. 5 no.6: 19-23 N-D '59. (MIRA 13:5)

1. Iz kafedry farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V. Anichkov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(ADRENAL CORTEX HORMONES physiol.)

(NICOTINE pharmacol.)

(SULFIDES pharmacol.)

(CAROTID SINUS pharmacol.)

(CHOLINE rel.cpsds.)

(FATTY ACIDS pharmacol.)

RYZHENKOV, V.Ye. (Leningrad)

Reflexes from carotid choline receptors affecting cortical activity of the adrenals [with summary in English]. Probl.endok. i gorm. 5 no.1:39-43 Ja-F '59. (MIRA 12:3)

1. Iz kafedry farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V. Anichkov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(NICOTINE, eff.

on adrenal cortex in intact animals & after excis. of carotid sinus (Rus))

(ADRENAL CORTEX, effect of drugs on,

nicotine, in intact animals & after excis. of carotid sinus (Rus))

(CAROTID SINUS, eff. of excis.

on adrenal cortex reactions to nicotine in animals (Rus))

MIEHURSKIY, S., RYZHENKOV, V.Ye.

**Effect of nicotine on the amount of ascorbic acid in guinea pigs.
Trudy LSGMI 45:42-45 '58 (MIRA 11:11)**

**1. Kafedra gigiyeny pitaniya Leningradskogo sanitarno-gigiyeni-
cheskogo meditsinskogo instituta (zav. kafedroy - dots. Z.M.
Agranovskiy).**

**(NICOTINE--PHYSIOLOGICAL EFFECT)
(ASCORBIC ACID)**

Citrus Fruits

Raising citrus plants Fel. i sem. / No. 3, 1952
19

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

RYZHENKOVA, G.D. [Ryzhankova, H.D.], agronom

Along Lenin's path. Rab. i sial. 36 no. 4:12-13 Ap '60.
(MIRA 14:5)

1. Kolkhoz im. Lenina Shklovskogo rayona.
(Shklov District--Women as farmers)

VOLKOVA, L.V.; SHVETS, V.I.; KHANDKAROVA, V.S.; RYZHENKOVA, S.F.;
PREOBRAZHENSKIY, N.A.

Lipides. Part 19: Synthesis of optically active
D-(—)- α -oleoyl- β -linoleoyl-glycerol. Zhur.ob.khim. 33 no.6:
1848-1851 Je '63. (MIRA 16:7)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M.V.Lomonosova.

(Glycerides)

VOLKOVA, L.V.; SHVETS, V.I.; RYZHENKOVA, S.F.; VARVARINA, N.B.; SMOLOVIK,
I.V.; PREOBRAZHENSKIY, N.A.

Lipides. Part 10: Synthesis of mixed α, β -diglycerides containing
residues of higher acids of the aliphatic series. Zhur.ob.khim.
32 no.6:1764-1768 Je '62. (MIRA 15:6)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.
Lomonosova.

(Glycerides) (Acids, Fatty)

BERSHADSKIY, A.Ye.; RYZHEVSKIY, O.N.

RUMF-1 interphase level regulator. Izv.vys.ucheb.zav.;neft' i gaz
6 no.11:97-99 '63. (MIRA 17:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akad. I.M.Gubkina.

RZHEPLINSKIY, G. V.

The Regime of Wave Disturbances in the Antarctic Region

report submitted for the 13th General Assembly IUGG, (Oceanography) Berkeley,
California, 19-31 Aug 63

RYZHEV, Yu. I.

Electric power and equipment in the chemical industry.
From. energ. 13 no.7:1-3 JI '58.

(MIRA 11:10)

1. Glavnyy energetik Ministerstva khimicheskoy promyshlennosti.
(Chemical engineering--Equipment and supplies)

"Reversible Reaction Between Sulfhydryl and Carbonyl Compounds," Biokhim., 11, No. 5, 1946. Mbr., Biochemistry Lab., Sanatorium Barvicha, Moscow, -1946-.

PROCESSES AND PROPERTIES INDEX

ca

10

Reversible reaction between sulfhydryl and carbonyl compounds. A. P. Ryzheva (Barvikh Sanitarium, Moscow). *Biokhimiya* 11, 391-400(1946).—The addn. in aq. soln. of 1 mole of an HS compd. to 1 mole of an aldehyde, pyruvic acid, or a glyoxal (ketones excepted), results in the formation of an unstable, readily dissoed. compd. The addn. products were not isolated, but their existence was proved by the fact that the SH group consumed much less iodine in the presence of aldehydes, pyruvic acid, and glyoxals. H. Priestley

CONCORD ELEMENTS

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

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FROM SYNONYMS AND ALIASES TO LETTERS

FROM LETTERS TO SYNONYMS AND ALIASES

FROM SYNONYMS AND ALIASES TO LETTERS

FROM LETTERS TO SYNONYMS AND ALIASES

CA

11B

A micromethod for the determination of lecithin in the blood. A. P. Ryshewa. *Lab. Prakt.* (U. S. S. R.) 1939, Sammelband. 64-6; *Chem. Zentr.* 1940, I, 618.—The method of Polano, Schaff and Rothschild (cf. F. Rothschild, *Klin. Wochschr.* 13, 792-3(1936)) for the detn. of lipid P was so modified that a small amt. of blood (0.2 cc.) was sufficient for a colorimetric detn. and this procedure could be substituted for the detn. that employs the step-photometer. Values found for the concn. of lecithin by this method varied from 8.3 to 10.0 mg. per 100 cc. of plasma for healthy individuals and 7.2 to 11.3 mg. per 100 cc. for tubercular individuals with old, destructive pulmonary processes.
M. G. Moore

CHEMICAL ELEMENTS

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BABICHEV, F.S.; MOKROVA, L.N.; RYZHEVA, L.V.

Benzothiazolylalkylcarboxylic acids and their derivatives.

Part 3: Some 2-benzothiazolylhydroxyalkyl- and oxoalkyl-
carboxylic acids. Zhur.ob.khim. 32 no.2:506-510 F '62.

(MIRA 15:2)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko.
(Acids, Organic)

RYZHEVSKIY, A., inzh. (Penza)

Device for digital measurement of capacitance and resistance.
Radio no.1:44-46 Ja '66. (MIRA 19:1)

RYZHEVSKIY, V.V., prof., doktor tekhn. nauk

Using mathematical methods and computers at open pit mining
operations. Gor. zhur. no.23-8 P '65. (MIRA 18:4)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

RYZHNY, Ivan Petrovich

[Developing winter wheat varieties with large and compound ears]
Vyvedenie sortov ozimoi pshenitsy s krupnym i slozhnym kolosom.
Frunze, Kirgizskoe gos. izd-vo, 1955. 65 p. (MLRA 10:1)
(Wheat breeding)

USSR/Cultivated Plants - Grains

M-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1476

Author : I. Ryzhey
Inst : Not Given
Title : Split Harvest of Winter Wheat

Orig Pub : S. kh. Kirgizii, 1956, No 6, 19-22

Abstract : The results are given of an analysis of varieties of winter wheat, listing their weight per 1000 grains, the nature and glassiness of the grain, the dynamics of dry matter accumulation in the grain, and the amount of albumin in the grain, in relation to their ripeness and periods of harvesting on a portion of the Kirgiz selection station. The quality of the grain, its physical and biochemical properties were paramount during harvesting in the phase of waxy ripeness. It is recommended that the kolkhozes and sovkhoses of Kirgiz carry out split harvesting of winter wheat. It is emphasized that the variety of winter-crop wheat "Pseudomeridionale-122" should be harvested during the complete ripeness, inasmuch as the variety does not appear to transfer its nutritious matter from the chaff into the grain during the waxy ripeness phase.

Card : 1/1

RYZHET, Ivan Petrovich

[New method for breeding wheat] Osnova novoi metodiki po semenovod-
stvu pshenitsy. Frunze, Ministerstvo sel'skogo khoziaistva Kirgizskoi
SSR, 1958. 26 p. (MIRA 14:8)

(Wheat breeding)

The productivity of wheat flowers depends on flowering time.

Dokl. Akad. sel'khoz. 23 no.1:8-10 '58.

(MIRA 11:5)

1. Kirgizskiy institut zemledeliya. Predstavleno akademikom I. Ye.
Glushchenko.

(Wheat)

IVANOV, Yakov Andreyevich, kand. sel'khoz. nauk, nauchnyy sotr.;
RYZHEY, Ivan Petrovich, kand. biolog. nauk, nauchnyy sotr.;
ZAVGORODNYAYA, Yelena Tikhonovna, nauchnyy sotr.; TAPLOVA,
Yekaterina Alekseyevna, nauchnyy sotr.; MOISEYEV, Aleksandr
Nikiforovich, nauchnyy sotr.; ABDUMANAPOLOV, S., red.;
NOSOVETS, F.G., red.; BEYSHENOV, A., tekhn. red.

[Field testing of grain, oilseed, and forage crops in the
Kirghiz S.S.R.] Aprobatsiia zernovykh, maslichnykh i kor-
movykh kul'tur v Kirghizskoi SSR. Frunze, Kirghizskoe izd-vo,
1959. 174 p. (MIRA 15:3)

1. Kirghizskiy nauchno-issledovatel'skiy institut zemledeliya
(for Ivanov, Ryzhey, Zavgorodnyaya, Teplova, Moiseyev).
(Kirghizistan--Grain breeding)
(Kirghizistan--Oilseed Plants)
(Kirghizistan--Forage plants)

RYZHEY, I.P., kand.biolog.nauk

Biological principles of the new method of producing wheat seed.
Agrobiologia no.2:258-268 Mr-Apr '59. (MIRA 12:6)

1. Kirgizskiy nauchno-issledovatel'skiy institut zemledeliya,
g. Frunze. (Wheat) (Seed production)

RYZHEY, I.P., kand.biologicheskikh nauk

Formation of durum wheat from soft wheat. Agrobiologia no.5:787
S-O '62. (MIRA 15:11)

1. Kirgizskiy institut zemledeliya, Frunze.
(Wheat breeding)

USSR / Cultivated Plants. Plants for Technical Use. M-5
Sugar Plants.

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73052.

Author : Voskresenskaya, G. S.; Ryzheyeva, O. I.

Inst : Not given.

Title : Condition and Perspectives for Cultivation of Oil-
Bearing Plants in Western Siberia and Krasnoyarskiy
Kray.

Orig Pub: V sb.: Maslichn. kul'tury v vost. r-rakh SSSR. Kras-
nodar, "Sov. Kuban'", 1958, 5-24.

Abstract: No abstract.

Card 1/1

103

Safflower

Vegetative hybridization of safflower and sunflower. Sel. i zem. 19 no. 5, 1952

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

RYZARSKIY

RYZARSKIY, I.

"Scare twice before you cut." Zhil stroi. no.10:20-21 0 '61.
(MIRA 14:10)

J. Upravlyayushchiy trustom Kaznetstroy, g. Gur'yev.
(Apartment houses)

BOBKOVA, T.P., prepodavatel' kursov kroyki i shit'ya; GURBO, A.I., prepodavatel' kursov kroyki i shit'ya; ZHIVAYEVA, Ye.I., prepodavatel' kursov kroyki i shit'ya; ZEMSKOVA, O.V., prepodavatel' kursov kroyki i shit'ya; LYSENKO, A.V., prepodavatel' kursov kroyki i shit'ya; MARTOPLYAS, L.V., prepodavatel' kursov kroyki i shit'ya; MARTYNOVA, F.V., prepodavatel' kursov kroyki i shit'ya; PANOVA, V.P., prepodavatel' kursov kroyki i shit'ya; POMINOVA, M.G., prepodavatel' kursov kroyki i shit'ya; RYZHICHKINA, M.I., prepodavatel' kursov kroyki i shit'ya; SYCHEVA, T.A., prepodavatel' kursov kroyki i shit'ya; FILANOVICH, O.F., prepodavatel' kursov kroyki i shit'ya; BRUNEVSKAYA, M., red.; TRUKHANOVA, A., tekhn. red.

[Practical handbook on garment cutting and sewing] Prakticheskoe posobie po kroyke i shit'iu. 4. izd. Minsk, Gos.izd-vo BSSR Red. nauchno-tekhn.lit-ry, 1961. 607 p. (MIRA 14:12)

1. Minskiy Okruzhnoy Dom ofitserov im. K.Ye.Voroshilova i klub im. F.E.Dzerzhiskogo (for all except Brunevskaya, Trukhanova). (Dressmaking—Pattern design) (Sewing)

2118. Ryzhikov, A.A.

Teoreticheskiye Osnovy Liteynogo Proizvodstva. Mo Skva-Sberdlovsk, Mashchgiz,
(Uralo-Si B. Otd-Nie), 1954. 332s.s. Ill. 23 sm. 8.000 EKZ. 13r. V Per.
(54-56407)p

RYZHNIK

ASST METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

METALLURGICAL LITERATURE CLASSIFICATION

001

Vroloff and Ryzhik. CARBON BLOCKS: THEIR MANUFACTURE AND PROPERTIES. *Opneupory*, 1, 1-10 (1933).

ASST METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTER 2ND LETTER 3RD AND 4TH LETTER MATERIALS INDEX

AS - ST & METALLURGICAL LITERATURE CLASSIFICATION

Vroloff and Ryzhik. CARBON BLOCKS: THEIR MANUFACTURE AND PROPERTIES. *Ognespory*, 1, 4-10 (1933).

1ST AND 2ND LETTER 3RD AND 4TH LETTER 5TH AND 6TH LETTER 7TH AND 8TH LETTER

COMMON VARIABLE INDEX

COMMON VARIABLE INDEX

RYZHIK, A.N.; YUKVIDOVA, Zh.M.

New method of conservative therapy in nonspecific ulcerative
colitis. Eksper. khir. 5 no. 2:36-38 Mr-Apr '60. (MIRA 14:1)
(COLITIS)

RYZHNIK, A.N., prof.; VISHNEVSKIY, A.A., prof., zasl. deyatel' nauk, red.;
INBERG, A.I., red.; BASENKO, L.I., tekhn. red.

[Atlas of surgery on the rectum and large intestine] Atlas operatsii na priamoi i tolstoi kishkakh. Pod red. A.A.Vishnevskogo. Moskva, Izdatbiuro tresta "Meduchposobie," 1960. 282 p.

(MIRA 14:9)

1. Zaveduyushchiy proktologicheskim otdeleniyem Gosudarstvennogo onkologicheskogo instituta imeni P.A.Gertsena i nauchnyy rukovoditel' klinicheskoy bol'nitsy no.18 im. Oktyabr'skoy revolyutsii gor. Moskvyy (for Ryzhikh). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Vishnevskiy).

(SURGERY, OPERATIVE—ATLASES) (RECTUM—SURGERY) (INTESTINES—SURGERY)

Ryzhik
SOKOL, G.M.; RYZHIK, A.R.

Controlling home and street accidents in Kharkov. Ortop.travn. i
protez. 17 no.6:130-131 N-D '56. (MLRA 10:2)

1. Iz Ukrainського nauchno-issledovatel'skogo instituta ortopedii i
travmatologii im. M.I.Sitenko (direktor - zaslužhennyi deyatel'
nauki professor N.P.Novachenko)
(KHARKOV—ACCIDENTS--PREVENTION)

RYZHNIK, D.I.; VASSERMAN, D.M.

Course and treatment of catarrhs of the upper respiratory tracts
and nonspecific pneumonia in children. Sbor. nauch. trud. TashGMI
22:94.99 '62. (MIRA 18:10)

1. Kafedra detskikh bolezney sanitarnogo fakul'teta (zav. kafedroy
prof. I.S. Aleksandrova) Tashkentskogo gosudarstvennogo meditsinskogo
instituta.

RYZHIK, D. L.

1410. Use of folic acid in treatment of children's diseases. K. G. Titov and D. L. Ryzhik *Pediatr. Zh.* 1955, 1, 49-54. *Soviet Zh. Biol.* 1955, Abstr. No. 51957. In cases of anaemia consequent upon a deficient diet, producing hypo- or avitaminoses or upon tuberculosis, the therapeutic effect of folic acid was found to be completely reliable. As a rule the haemoglobin and erythrocyte counts were restored in the course of 2-3 weeks. Erythropoiesis is inhibited by folic acid, the number of cell divisions of the erythroblasts decreases and they mature more readily. Leucopoiesis also returns to normal. Together with the improvement in intracellular fermentative processes, the appetite and wt. increase. (Russian)

R. SCHACHTER

2

Tashkent Med Inst

Spetsial'nyye funktsii. Sobraniye formul i uspomogatel'nykh tablits. M.-L., G. TI (1936),
1-160

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.,
Merkushevich, A. I.,
Pashevskiy, P. K.
Moscow-Leningrad, 1948

RYZHIK, I. M.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 629 - I

BOOK

Call No.: AF467797

Authors: RYZHIK, I. M. and GRADSHTEYN, I. S.

Full Title: TABLES OF INTEGRALS, SUMS, SERIES, AND PRODUCTS. 3d ed.
revised

Transliterated Title: Tablitsy integralov, summ, ryadov i
proizvedeniy. 3 izd. pererabotannoye

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and
Theoretical Literature

Date: 1951

No. pp.: 464

No. of copies: 15,000

Editorial Staff

Editors: B. S. Vilenskaya, Yu. V. Geronimus, S. N. Akhlamov,
G. N. Nelidova, L. O. Secheyko

Contributors: S. B. Stechkin, A. Ya. Dubovitskiy, I. N. Bronshteyn

PURPOSE: The book is dedicated mainly to scientific workers and re-
search engineers in the field of physico-mathematical sciences to
fill a long-felt absence of a suitable reference book.

TEXT DATA

Coverage: In the preface to the first edition, the authors state that
the book presents a compendium of formulae with little explanatory
text. In the preface to this third edition, prepared by I. S.

Tablitsy integralov, summ, ryadov i proizvedeniy.
3 izd. pererabotannoye

AID 629 - I

Gradshteyn, after the death of I. M. Ryzhik, the author mentions the substantial changes made in the book and in its plan. The text is divided into an introduction, eight chapters, an index of special functions, lists of symbols, and literature. The introduction covers finite sums, numerical series, function series and some differential formulae. Ch. 1 includes elementary functions: binomials and exponential, trigonometric, hyperbolic, logarithmic, inverse trigonometric and inverse hyperbolic functions; ch. 2 gives indefinite integrals of rational, algebraic, exponential, trigonometric, logarithmic, inverse, and special functions; ch. 3, definite integrals of elementary functions; ch. 4, definite integrals of special functions: elliptic, Euler, cylindrical, spherical, etc.; ch. 5, integral transformations: Fourier, Laplace, Hankel; ch. 6 and 7, special functions and integrals (elliptic, exponential, Euler, cylindrical, Mathieu), polynomials, degenerated hypergeometric, Riemann's ζ functions, Bernoulli polynomials; Ch. 8, numerical tables of functions: Lobachevskiy's $L(x)$, Bernoulli, Riemann, Euler and constants of Euler and Catalan. Special symbols and designations are used in the subject index.

No. of References: Total number 40, 1867-1951, of which 27 are in Russian, 5 in English, 4 in French, 4 in German.

Facilities: None

RYZHIK, I. M. and GRADSHTEYN, I. S.

Tables of Integrals, Summations, Progressions, and Products, State Publishing
House of Technical-Theoretical Literature, Moscow-Leningrad, 1951.

Book-CS-G-EG-1205

RYZ

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0

*Ryžik, I. M., i Gradštejn, I. S. *Tablicy integralov, summ, ryadov i proizvedenij.* [Tables of integrals, sums, series and products.] 3d ed. Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow-Leningrad, 1951. 464 pp. 20.45 rubles.
Table of contents: Introduction; Elementary functions; Indefinite integrals; Definite integrals of elementary functions; Definite integrals of special functions; Integral transforms; Special functions; Numerical tables. The material is mostly from standard sources with the sources indicated; e.g., Bierens de Haan, *Nouvelles tables d'intégrales définies* [Amsterdam, 1867], Magnus and Oberhettinger, *Formeln und Sätze* . . . [Springer, Berlin, 1948; these Rev. 10, 38], Whittaker and Watson, *A course of modern analysis* [Cambridge, 1927].

SO: MATHEMATICAL REVIEWS (unclassified)
Vol. 14, No. 7, July-Aug. 1953, pp.609-712.

RYZHIK, IOSIF MOYSEYEVICH

Science

Tables of integrals, sums, series and products Moskva, Gos. izd-vo tekhniko-teoret.
lit-ry, 1951.

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

RYZ

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446520009-0

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446520009-0

Mathematical Reviews
Vol. 14 No. 7
July - August 1953
Analysis

* Ryzik, I. M., i Gradštein, I. S. Tablitsy integralov, summ, ryadov i proizvedenii. [Tables of integrals, sums, series and products.], 3d ed. Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow-Leningrad, 1951. 464 pp. 20.45 rubles.
Table of contents: Introduction; Elementary functions; Indefinite integrals; Definite integrals of elementary functions; Definite integrals of special functions; Integral transforms; Special functions; Numerical tables. The material is mostly from standard sources with the sources indicated; e.g., Bierens de Haan, Nouvelles tables d'intégrales définies [Amsterdam, 1867], Magnus and Oberhettinger, Formeln und Sätze . . . [Springer, Berlin, 1948; these Rev. 10, 38], Whittaker and Watson, A course of modern analysis [Cambridge, 1927].

GRADSHTEYN, Izrail' Solomonovich; RYZHIK, Iosif Moiseyevich; Primali
uchastiye: GERONIMUS, Yu.V.; TSEYTLIN, M.Yu.; LAPKO, A.F.,
red.; KRYUCHKOVA, V.N., tekhn. red.

[Tables of integrals, sums, series, and products] Tablitsy in-
tegralov, summ, riadov i proizvedenii. Izd.4., 'perer. pri
uchastii I.U.V.Geronimusa i M.I.U.Tseitlina. Moskva, Gizmatgiz,
1962. 1100 p. (MIRA 15:9)

(Mathematics—Tables, etc.)

Ryzhnik, L. A. - "Data on the toxicologic evaluation of hydrolyzed and sulfite alcohols as solvents," In symposium: Issledovaniya v oblasti prom. toksikologii, Leningrad, 1948, p. 164-88 - Bibliog: 17 items

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

RYZHIK, L.A., kand. med. nauk

Current state of dust control in the crushing departments of dressing plants of ferrous and nonferrous metallurgy. Bor'ba s sil. 6:136-139 '64 (MIRA 18:2)

1. Gosudarstvenny nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh zabolevaniy Ministerstva zdravookhraneniya RSFSR, Leningrad.

VILYAVIN, G. D.; RYZHIK, L. Ye.

Results of penicillin therapy of erysipeloid. Sovet. med.
no.8:30 Aug 1951. (CJML 20:11)

1. Moscow.

RYZHNIK, L.Ye.

ARIYEVICH, A.M., professor; RYZHIK, L.Ye.

Nonmycotic erosion appearing between the fingers. Vest.ven.i derm.
no.2:26-28 Mr-Ap '54. (MLRA 7:4)

1. Iz 'Sentral'nogo kozhno-venerologicheskogo instituta Ministerstva
zdravookhraneniya SSSR (direktor - kandidat meditsinskikh nauk N.M.
Turanov). (Skin--Diseases)

RYZHIK, M.A.

Quality index of the performance of a cam with a flat follower.
Teor. mash. i mekh. no. 96/97:91-97 '63. (MIRA 17:1)

RYZHIK, M.A.

Selection of optimum purity for frictional surface finishes.
Avt. trakt. prom. no.5:20-22 My '55. (MIRA 8:8)

1. Kutaiskiy avtozavod.
(Surfaces (Technology))

RYZHIK, M.A.

Saddle truck with a semi-dump trailer for hauling cotton. Avt. 1
trakt. prom. no.2:6-8 F '56. (MIRA 9:6)

1. Kuttaisskiy avtozavod.
(Automobiles--Trailers)

RYZHNIK, M. A.

2

U S S R .

11768* Problem of the Choice of the Optimum Smoothness of Finish of Friction Surfaces. K. voprosu o vybere optimal'noi chistoty obrabotki trashchikhatai poverkhnostei. (Russian) M. A. Ryzhik. *Automobil'naya promyshlennost'*, 1955, no. 5, May, p. 20-21.
Polishing and grinding prescriptions established in connection with dimensions and rotations of parts; wear tests. Photographs. 4 ref.

[Handwritten signature]

RYZHNIK, M. A.

Nov/Dec 1946

USSR/Cams

Engines, Gasoline

"Modification of the Profile of Gas Distributor Cams to Prevent Abrasion of the Plunger," M. S. Khanin, M. A. Ryzhik, 3 pp

"Avtomobil'naya Promyshlennost'" No 11/12

Detailed discussion, with diagrams and formulas, of modified profile of cams to prevent abrasion and, to increase usefulness of plungers.

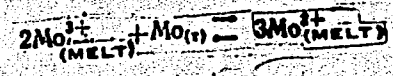
FA 12F37

L 9935-66

3

ACC NR: AT5028237

and of the equilibrium constant of the reaction



2) 11115
in molten lithium chloride. The thermodynamic parameters of certain reactions occurring on mixing molten chlorides of alkali metals with lower molybdenum chlorides were determined. Orig. art. has: 4 figures and 1 table.

SUB CODE: 07 / SUBM DATE: None / ORIG REF: 011

L 3781-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5014138

UR/0365/65/001/003/0335/0337
669.28 : 620.193.43

57
54
B

AUTHOR: Smirnov, M. V.; Ryzhik, O. A.; Savochkin, Yu. P.
44,55 44,55

TITLE: Electrochemical corrosion of molybdenum in a chloride melt
44,55 44,55

SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 335-337

TOPIC TAGS: molybdenum, corrosion, potassium chloride

ABSTRACT: The stationary potentials of molybdenum are measured with respect to a chlorine comparison electrode in thoroughly purified molten potassium chloride. The experiments were done at 790-920° in a helium-filled hermetically sealed capsule. The empirical equation for the temperature relationship of the stationary potential of molybdenum in a KCl solution with regard to the thermoelectromotive force between the molybdenum and carbon electrodes is

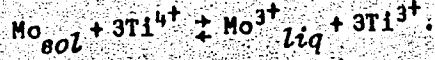
$$E_{st} = -2.082 + 2.47 \cdot 10^{-4} \cdot T \pm 0.004 \text{ v.}$$

Calculations show that corrosion rates in the 800-950° temperature range are of the order of 10^{-7} a/cm² in pure KCl. However, when easily reduced impurities are

L 3781-66

ACCESSION NR: AP5014138

present in the potassium chloride (e. g. tetravalent titanium), molybdenum is strongly corroded as a result of the reaction



In molten salt solutions, molybdenum may also be corroded by contact deposition of less noble metals due to a reduction in free energy when solid solutions or inter-metallic compounds are formed. Orig. art. has: 1 figure, 2 formulas.

ASSOCIATION: Ural'skiy politekhnicheskii institut im. S. M. Kirova (Ural Poly-technical Institute)

SUBMITTED: 14Oct64

ENCL: 00

SUB CODE: MM, GC

NO REF SOV: 008

OTHER: 002

CC
Card 2/2

SALYENOV, M.V.; RYZHIK, G.A.; KAZANTSEV, G.N.

Diffusion of trivalent molybdenum in a medium of fused alkali metal chlorides. Elektrokhimiya 1 no.1:59-62 Ja '65. (MIRA 18:5)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova.

SMIRNOV, M.V.; RYZHIK, O.A.

Inertness of metal electrodes in fused salt electrolyte. Izv.
vys. ucheb. zav.; tsvet. met. 8 no.1:86-89 '65.

(MIRA 18:6)

1. Ural'skiy politekhnicheskiy institut.

L 48969-65 EPA(s)-2/EWT(m)/EPF(c)/EWA(d)/EWP(t)/EWP(z)/EWF(b)/EPF(n)-2
ISP(c) JD/WW/JG

ACCESSION NR: AP5007749

S/0364/65/001/001/0059/0062

AUTHOR: Smirnov, M. V.; Ryzhik, O. A.; Kazantsev, G. N.

42
138
B

TITLE: Diffusion of trivalent molybdenum in a medium of fused chlorides of alkali metals

SOURCE: Elektrokimiya, v. 1, no. 1, 1965, 59-62

TOPIC TAGS: molybdenum, chloride, alkali metal, diffusion coefficient

ABSTRACT: The diffusion of molybdenum in dilute solutions of its trichloride in fused chlorides of alkali metals was studied. The concentration of molybdenum in these melts did not exceed $5 \cdot 10^{-4}$ g-equiv/cm³. Therefore the interaction of its ions was significant only with a salt solvent. The chronopotentiometric method with polarization of the electrode by a current with a constant density higher than the maximum diffusion density was used to measure the diffusion coefficient of the dilute component of the melt. The tests were conducted in hermetically sealed cells in which the gas chamber was filled with thoroughly purified helium (see fig. 1 of the Enclosure). The solvent electrolytes were previously recrystallized chlorides

L 48969-65

ACCESSION NR: AP5007749

of ¹lithium, ¹potassium, and ¹cesium and also eutectic LiCl-KCl. The diffusion coefficient of trivalent molybdenum was calculated according to the equation

$$D = 1.37 \cdot 10^{-6} \left(\frac{MI}{3apS} \right)^2 \tau \text{ cm}^2/\text{sec}$$

where a is the concentration of molybdenum in weight %; M is the molecular weight; I is the strength of current in amperes; S is the area of the cathode in cm^2 ; ρ is the density of the electrolyte in g/cm^3 . As the cation radius of the alkali metal increases, the rate of diffusion of the trivalent molybdenum decreases. The values of the activation energy are linearly related to the inverse magnitudes of the cation radii of the salt solvents. It is suggested that the diffusion process occurs through "jumping" of the molybdenum cations from one point of the quasi-lattice of the fusion to another. Orig. art. has: 3 figures.

ASSOCIATION: Ural'skiy politekhnicheskii institut imeni S. M. Kirova (Ural Poly-technical Institute)

SUBMITTED: 15Sep64

ENCL: 01

SUB CODE: MM, GC

NO REF SOV: 013

OTHER: 003

Card 2/3

L 48969-65

ACCESSION NR: AP5007749

ENCLOSURE: 01

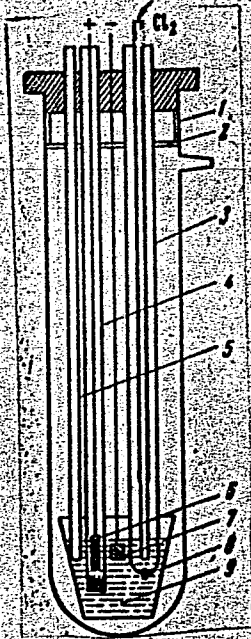


Fig. 1. Cell for measurements: 1--quartz glass test tube; 2--fluoroplastic screen; 3--quartz capsule with chlorine comparison electrode; 4--quartz jacket with diaphragm; 5--chromel-alumel thermocouple; 6--carbon anode on a molybdenum current feeder; 7--platinum cathode; 8--alumina crucible; 9--test electrolyte

Card 3/3

SKIBA, O.V.; SMIRNOV, M.V.; RYZHIK, O.A.

Polarization of the uranium anode in the electrolysis of a
mixture of potassium and sodium chlorides. Trudy Inst.
elektrokhim. UFAN SSSR no.3:41-48 '62. (MIRA 16:6)

(Electrodes, Uranium)
(Alkali metal chlorides)
(Polarization(Electricity))

38683

S/149/62/000/003/005/011
A006/A101

AUTHORS: Nichkov, I. F., Ryzhik, O. A., Raspopin, S. P.

TITLE: The effect of thorium on electrode potentials of bismuth in alkali-metal chloride melts

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no. 3, 1962, 113 - 116

TEXT: To investigate the effect of the cation of a strong complex-forming salt upon bismuth behavior in alkali metal chloride melts, equilibrium potentials of bismuth were measured in such melts, containing thorium and bismuth, at various temperatures (950 - 1,100 K). An equimolar mixture of potassium and sodium chlorides with 3.1 weight percent ThCl_4 and 1.7 weight percent BiCl_3 was used as an electrolyte. After melting the mixture was refined by electrolysis. The emf of the cell were measured every 25 - 30 minutes for 6 - 8.5 hours. The electrolyte temperature was maintained within $700 - 850 \pm 5^\circ\text{C}$. After the experiment the thorium and bismuth content of the electrolyte were analyzed. For comparison, the temperature dependence of a bismuth electrode without ThCl_4 , determined pre-

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S/149/62/000/003/005/011
A006/A101

The effect of...

viously, is given. It appears that bismuth potentials in a KCl-NaCl-ThCl₄-BiCl₃ melt are by about 80 mv more positive than corresponding values in the same melts without thorium tetrachloride. The introduction of a strong complex-forming agent, such as thorium, affects the interaction of Bi³⁺ and Cl⁻ ions, which becomes weaker. The $\text{BiCl}_2^+ + 2\text{Cl}^- \rightleftharpoons \text{BiCl}_4^-$ equilibrium is shifted to the left. Consequently the Bi potential in such melts becomes more positive. There is 1 figure. ✓

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

SUBMITTED: December 20, 1961

S/020/61/141/005/011/018
B103/B110

AUTHORS: Nichkov, I. F., Ryzhik, O. A., and Rasporin, S. P.

TITLE: Interaction of bismuth chloride and chlorides of the alkali metals

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 5, 1961, 1113-1116

TEXT: The nature of the interaction of BiCl_3 with KCl and NaCl was determined between 700 and 850°C. The equilibrium potentials of metallic bismuth were measured for this purpose in electrolytes of different BiCl_3 contents in quartz test tube (Fig.). Electrolytically purified Bi was added after complete fusion of the equimolar chloride mixture. BiCl_3 was produced in the electrolyte by anodic dissolution of a part of the Bi contained in the crucible. A molybdenum electrode was placed in the electrolyte contained in the quartz test tube such that the crucible served as diaphragm separating anolyte and catholyte. The test tube was evacuated and filled with purified helium. The Bi potentials were measured related to the chlorine reference electrode by a highly resistant ППТВ-1 (PPTV-1) potentiometer, a galvanometer having a sensitivity of

S/O20/61/141/005/011/018
B103/B110

Interaction of bismuth chloride ...

10^{-9} a per scale division was used as null detector. The melt was heated by an autotransformer and its temperature was kept constant by the two measuring instruments. A decrease of the emf-values between the Bi and the Cl electrode was found with decreasing temperature; these values were measured at different temperatures in melts containing 1.13 (1), 3.05 (2), and 12.06 (3) % by weight of Bi. The points experimentally found fall satisfactorily on the straight lines satisfying the following empirical equations: $E_1 = 1.446 - 2.95 \cdot 10^{-4} T$ v; $E_2 = 1.412 - 2.90 \cdot 10^{-4} T$ v; $E_3 = 1.378 - 3.00 \cdot 10^{-4} T$ v. The measured values included besides the electrochemical potential difference desired the thermo-emf between molybdenum and carbon conductors with reversed sign. Its temperature dependence is: $E_T = 0.008 - 0.17 \cdot 10^{-4} T$ v. If the thermo-emf between the graphite bar of the Cl electrode and the Mo conductor to Bi is considered, the Bi equilibrium potentials related to the Cl reference electrode are identical. It is concluded from the values measured that the equilibrium potential of metallic Bi related to the Cl reference electrode is expressed by the thermodynamic Nernst equation. This means that the liquid Bi electrode is reversible as to the Bi^{3+} ions in chloride melts. These

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Interaction of bismuth chloride ...

S/020/61/141/005/C11/018
B103/B110

behave as ideal solutions in the BiCl_3 concentration range investigated.

On the assumption that this ideal behavior continues in the entire BiCl_3 concentration range up to pure melted BiCl_3 , the emf of the cell

$\text{Bi}|\text{BiCl}_3(\text{melt})|\text{Cl}_2, \text{C}$ should be $E_e = 1.338 - 3.376 \cdot 10^{-4}T$ v, calculated on

the basis of the authors' experimental data. The temperature dependence of the emf of such a cell is (calculated on the basis of Ref. 9, see below):

$E_T = 1.254 - 5.750 \cdot 10^{-4}T$ v. The difference $E_e - E_T = 0.084 - 2.374 \cdot 10^{-4}T$ v

is mainly due to the fact that the melts cease to be ideal solutions at high BiCl_3 concentrations. This means that changes in concentration are

accompanied by a regrouping of the Bi ions; the nature of this regrouping is determined by $E_e - E_T$. It corresponds to the change of the isobaric

potential on transition from pure melted BiCl_3 to its dilute solutions

which behave as ideal solutions: $\Delta Z_{\text{mix}} = -3F(E_e - E_T) = (-5811 - 16.42T)\text{cal/mole}$

It is evident that the mixing of the salts entails an interaction in which heat ($\Delta H_{\text{mix}} = 5.61$ kcal) is evolved and the entropy ($\Delta S = 16.42$ cal/deg·mole)

Card 3/5

Interaction of bismuth chloride ...

S/020/61/141/005/011/018
3103/3110

increases. Thus, it is proved that the bonds between the Bi^{3+} ions and the chloride anions become stronger and that complex groups of the anion type are formed. The short-range order of the ions in the melt is altered by the Bi^{3+} ions. The remaining Bi^{3+} ions bind the Cl ions stronger than this is done by the ions of the alkali metals. Probably for this reason, Bi is found in dilute solutions mainly in the form of anion complexes of the $\text{BiCl}_n^{(n-3)-}$, where $n > 3$. With regard to the change of the isobaric

potential, known in itself (Ref. 9, see below), it is stated that this value can equally be calculated from ΔZ_{mix} by extrapolation to the temperature 298°K , whereby the latent heat (2.6 kcal/mole) and the melting entropy (5.2 cal/deg·mole) have to be considered. $\Delta Z_{\text{BiCl}_4^-}$ was found to be

-6.56 kcal/mole. It is concluded that Bi is contained in form of anion complex groups in the melts mentioned: BiCl_4^- . There are 3 figures and

11 references: 8 Soviet and 3 non-Soviet. The three references to English language publications read as follows: Ref. 9: W. Hamer, M. Maltberg, B. Rubin, J. Electrochem. Soc. 103, 8 (1956); Ref. 10: Noies, Holl, Vitti, J. Am. Chem. Soc., 22, 2526 (1917); V. Latimer, Gkislitel'noye sostoyaniye

Card 4/5

Interaction of bismuth chloride ...

S/020/61/141/005/011/018
B103/B110

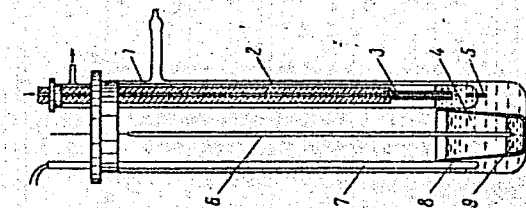
elementov i ikh potentsialy v vodnykh rastvorakh (Oxidative state of elements and their potentials in aqueous solutions), IL, 1954.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova
(Ural Polytechnic Institute imeni S. M. Kirov)

PRESENTED: July 14, 1961, by V. I. Spitsyn, Academician

SUBMITTED: July 10, 1961

Fig.



Card 5/5

RYZHIK, S.D., inzhener

Device for unloading dry substances from platforms and open
cars. Mekh.trud.rab. 9 no.5.15-17 My '55. (MIRA 8:7)
(Loading and unloading)

USSR/Miscellaneous - Building materials

Card : 1/1 Pub. 71 - 13/17
Authors : Ryzhik, S. D., Engineer
Title : Production of ferro-concrete materials for housing construction
Periodical : Mekh. trud. rab. 4, 33 - 36, June 1954
Abstract : The production of ferro-concrete materials for construction of residential dwellings, is described. Illustrations.
Institution : ...
Submitted : ...

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446520009-0"
RYZHIK, S.D., inzhener.

Reinforced concrete block plant for residential buildings. Mekh.trud.
rab. 8 no. 4:33-36 Je '54. (MLRA 7:6)
(Precast concrete construction)

RYZHIK, V.L.; BRAVO, A.L.; EYGENBROT, I.M.

Automatic control system for parallel operating welding units
depending on the loads in buses. Avtom.i prib. no.1:12-18
Ja-Mr '62. (MIRA 15:3)

1. Trest "Sevzapmontazhavtomatika".
(Electric welding) (Automatic control)

ARTYNTSIV, O.F. (Moskva); RYZHIK, V.M. (Moskva)

Investigating the process of the displacement of oil by water in
heterogeneous pools. Izv. AN SSSR. Mekh. no.5:175-181 S-0 '65.
(MIRA 18:10)

BAN, Akosh; BOGOMOLOVA, Antonina Fedorovna; MAKSIMOV, Valeriy
Aleksandrovich; NIKOLAYEVSKIY, Viktor Nikolayevich;
OGANDZHANYANTS, Vladimir Grigor'yevich; RYZHIK, Viktor
Mikhaylovich; CHERNYI, I.A., red.; KAYESHKOVA, S.M., ved.
red.; POLOSINA, A.S., tekhn. red.

[Effect of the properties of rocks on the fluid flow in them]
Vliianie svoistv gornyykh porod na dvizhenie v nikh zhidkosti.
[By] A. Ban i dr. Moskva, Gostoptekhizdat, 1962. 274 p.
(MIRA 16:2)

(Oil reservoir engineering)

KOROVYAKOVSKIY, I.G., inzh.; CHERNUSSKIY, A.I., inzh.; BARTALOG, A.F., inzh.;
SHCHAVLINSKIY, V.A., inzh.; RYZHIK, V.M., inzh.

RLND-150 type separators with two reversible columns. Energ. i
elektrotekh. prom. no.3:21-23 J1-S '64.

(MIRA 17:11)

RYZHIK, V.M. (Moskva)

Shape of the steady boundary of flooding gas from a two-layer bed.
Izv. AN SSSR. Otd. tekhn. nauk. Mekh. i mashinostr. no. 5:40-48 '60.

(MIRA 13:9)

(Gas flow)

(Oil field flooding)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446520009-0
CIA-RDP86-00513R001446520009-0"

RYZHIN, V.M. (Moskva)

Oil displacement by water in a porous medium with low-permeability
inclusions. Izv. AN SSSR. Mekh. i mashinostr. no. 1:126-132. J.-F.
'64. (MIRA 17:4)

VEZIROV, D.Sh. (Moskva); RYZHIK, V.M. (Moskva)

Displacement of oil by water from fractured porous media. Izv.
AN SSSR Mekh. i mashinostr. no.6:152-159 N-D '64.

(MIRA 18:2)

IL'SHTEYN, A.M., doktor tekhn. nauk; LIBERMAN, Yu.M., kand.
tekhn. nauk; MEL'NIKOV, Ye.A., kand. tekhn. nauk; RAKHIMOV, V.,
kand. tekhn. nauk; RYZHIK, V.M., kand. fiz.-matem. nauk

[Methods of calculating pilars and ore blocks of chambers in
ore deposits] Metody rascheta tselikov i potolochin kamer
rudnykh mestorozhdenii. Moskva, Nauka, 1964. 141 p.
(MIRA 18:3)

RYZHIK, V.M. (Moskva); CHARNYI, I.A. (Moskva); CHEN' CHZHUN-SYAN
[Chen Chung-hsiang] (Moskva)

Some accurate solutions of equations of unsteady flow of a
two-phase fluid. Izv. AN SSSR. ⁰td. tekhn. nauk. Mekh. i mashinostr.
no. 1:121-126 Ja-F '61. (MIRA 14:2)
(Oil well flooding)

06173

10.4000

S/179/59/000/06/029/029
E081/B141

AUTHOR: Ryzhik, V.M. (Moscow)

TITLE: The Mechanism of Capillary Impregnation in Porous Media 710

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 6, pp 151-153 (USSR)

ABSTRACT: The paper gives a treatment of capillary impregnation, allowing for the experimentally observed fact that the gas in the body is not completely replaced by liquid, and that appreciable amounts of residual gas remain after impregnation. Using D'Arcy's law (Eq 1) an equation (the equation given on p 151 between Eqs (3) and (4)) is obtained for the filtration velocity, assuming the viscosity of the gas to be small compared with that of the liquid. This equation, in conjunction with the continuity equation (2) for the liquid leads to the partial differential equation (4) containing the capillary pressure (p_c), the degree of saturation (ρ) by the liquid and the porosity m . By transforming the variables, an ordinary differential equation (6) is obtained. If the function Φ in Eq (6) has the form $\Phi(\rho) = \rho^M$, then according to Ref 2

Card
1/2

68478

S/179/59/000/06/029/029
E081/E141

The Mechanism of Capillary Impregnation in Porous Media

$$\rho(\xi) = a_0(\xi - c)^\gamma \left[1 + (\xi - c) a_1 + a_2 (\xi - c)^2 + \dots \right] \quad \left(\gamma = \frac{1}{n-1} \right) \quad (7)$$

and the relationship between ρ and ξ is shown in Fig 1 for $n = 3/2$ and $n = 5/2$. The approximate solution of Eq (6), based on $\Phi(\rho) = \rho^n$ leads to Eq (10), which can be written in the form $v^2 = Ct$, where V is the volume absorbed in time t , and C is a constant related to the mean size of the pores. The data of A.A. Kocheshkov (Dissertation, Moscow Petroleum-Chemical Institute) are plotted as v^2 against t in Fig 2, and verify the predicted relationship. Thanks are expressed to A.A. Kocheshkov for permitting the use of experimental data. There are 2 figures and 2 Soviet references.

Card
2/2

SUBMITTED: August 30, 1959

RYZHIK, V.M. (Moskva)

Review of works on reciprocal displacement of immiscible liquids
from a porous medium. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr.
no.2:130-141 Mr.-Ap '61. (MIRA 14:4)
(Oil field flooding)

RYZHNIK, Z. M.

K

22-684. Earthen Forms for Welding
Fabrication Cutting Tools. Z. M. Ryzhik
Artozennoe Delo (Welding). Aug. 1947.
D. 27. (In Russian.)
Use of special forms in factory pro-
duction of cutting tools with hard
metal tips applied by fusion welding
to the bodies of the tools.

CLASSIFICATION

COPIES

A 50-51A METALLURGICAL LITERATURE CLASSIFICATION

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RYZHNIK

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PA 00149

USSR/Engineering
Welding, Arc
Welding, Electrodes

Apr 1948

"Producing Cutting Machines for Electric Arc Weld
Seams With Specially Insulated Electrodes," Z. M.
Ryzhik, Engr, 1½ pp

"Avtogen Delo" No 4

Describes various steps and actual performance of the
steps in the subject method for producing cutting ma-
chines. Describes method to insulate electrodes,
technology of the process of welding, mechanical and
thermal processing of the miller, and methods to con-
trol the quality of the finished product.

788

66T49

RYZHNIK,

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IR 20/4744

USSR/Engineering
Soldering
Solder

Sep 48

"Soldering With Copper-Phosphorus Solder Instead of Silver," Z. M. Ryzhik, Engr, $\frac{1}{2}$ p

"Avtogennoye Delo" No 9

Describes preparation of copper-phosphorus solder and discusses control of chemical composition and quality of the joint (Cu - P thermoequilibrium diagram).

FDB

20/49T47

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
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PROCESSES AND PROPERTIES INDEX

M

The Application of Electric-Contact Soldering Using Phosphor-Copper.
Z. M. Ryzhuk (*Arty. Delo*, 1949, (2), 21-23). [In Russian]. It describes the use of an electric-contact method for soldering rotor and stator windings in which tin solder is replaced by phosphor-copper strip containing 0.8% phosphorus. Apart from the saving of tin, the semiautomatic nature of the process results in considerable economy of labour. —N. B. V.

ASME 112 METALLURGICAL LITERATURE CLASSIFICATION

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

AUTOMATIC WELDING OF SMALL PARTS. Z. M. RYZHIK . (KMSI
AVTO. DELO № 1949, No. 5. pp 21-23) (In Russian) An
account is given of the successful use of automatic sub-
merged arc welding in the manufacture of flanged cylinders
and lids of low-carbon steel, about 400 and 500 mm. in
diam. respectively, for explosion-proof electric motors.
The replacement of the manual by the automatic technique
of arc welding increased productivity 500-600% and
greatly improved the regularity and quality of the seams.
SK

USSR/Engineering
Soldering
Electrical Equipment

Jul 49

"Soldering Gas Apparatus With Copper Solder of High Phosphoric Content," Z. M. Ryzhik, Engr, $\frac{1}{2}$ p

"Avtogen Delo" No 7

In recent years there has been increasing use of copper-phosphorus solder for soldering in electrical equipment because of a critical shortage of silver and tin solder. Usually copper-phosphorus solder contains 7% phosphorus by weight. Describes factory use of a 13% phosphorus solder which melts at 705 to 830° C. Describes preparation of the FDD solder, and methods for using it. 53/49T45

RYZHIK, Z.M.

USSR/Engineering - Brazing

Jun 51

"Brazing of Steel Pieces With Cast Iron," Z. M.
Ryzhik, Engr

"Avtogen Delo" No 6, p 26

Practical experience of one of Leningrad plants revealed possibility of using gray cast iron for brazing certain steel products instead of riveting them or brazing with copper. Tensile strength of joint corresponds to that of cast iron itself. Method simplified technological process and decreased production cost considerably.

200T38