KVALIASHVILI, G.A.

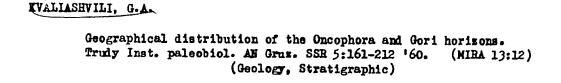
Presence of forms of fauna of the Kul'ianits horizon in the Guria beds in Guria. Dokl. AN SSSR 96 no.1:161-162 My '54. (MLRA 7:5)

1. Sektor paleobiologii Akademii nauk Gruz.SSR. Predstavleno akademikom S.I.Mironovym. (Guria--Paleontology) (Paleontology--Guria)

New representatives of the genus Moprosodacna from Motsakhuri deposits of eastern Georgia. Soob. AN Grus. SSR 18 no.5:563-569 My '57. (MERA 10:9)

1. Akademiya nauk Grusinekoy SSR, Sektor paleobiologii, Tbilisi. Predstavleno akademikom L.Sh. Davitashvili. (Georgia—Lamellibranchiata, Fossil)

KVALIASHVILI, G.A., Cand Geol-Min Soi — (diss) "Kotschhuri (enochine bearing) Prospects of Georgia." Beku, 1959. 18 pp (Min of Migher Education USSR. "zerbeydzhen Stata U im S.E. Kirov). 100 copies (KL, 38-59, 115)



KVALIASHVILI, Georgii Aleksandrovich, starshiy nauchnyy sotr., kand. geologo-miner. nauk; DAVITASHVILI, L.Sh., red.; AVALIANI, N.M., red. izd-va; BOKERIYA, E.B., tekhn.red.

[Oncophora (Rzehakia) horizon of Eurasia]Onkoforovyi (rzegakievyi) gorizont Evrazii. Tbilisi, Izd-vo Akad. nauk Gruzinskoi SSR, 1962. 231 p. (MIRA 15:12)

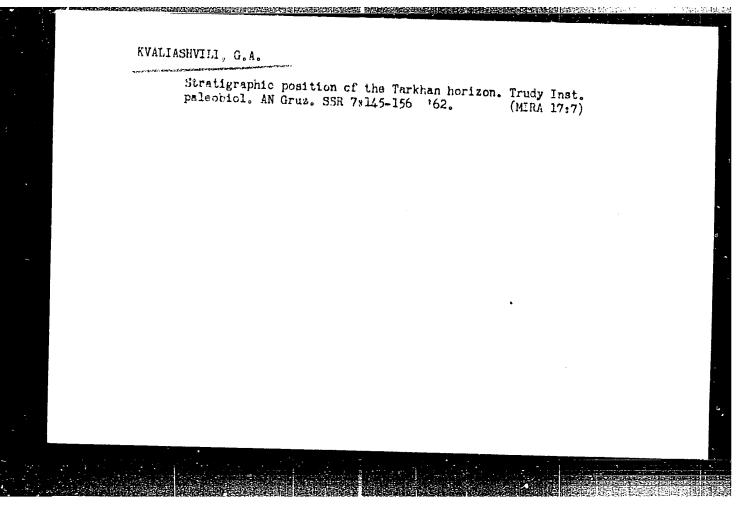
1. Institut paleobiologii Akademii nauk Gruzinskoy SSR (for Kvaliashvili).

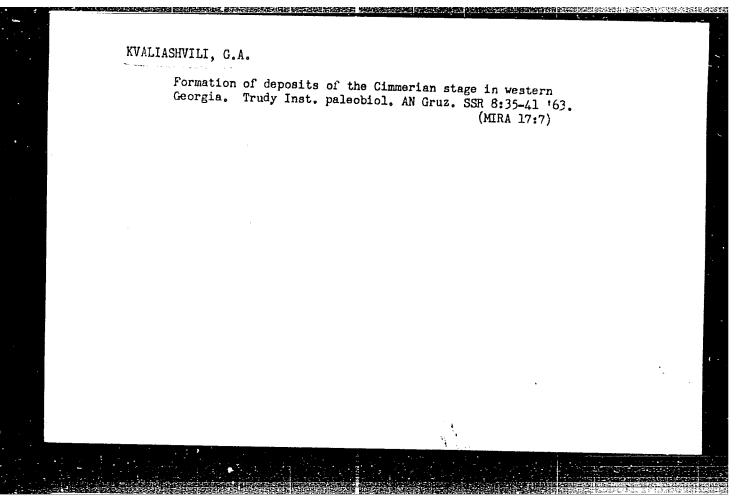
(Mollusks, Fossil)

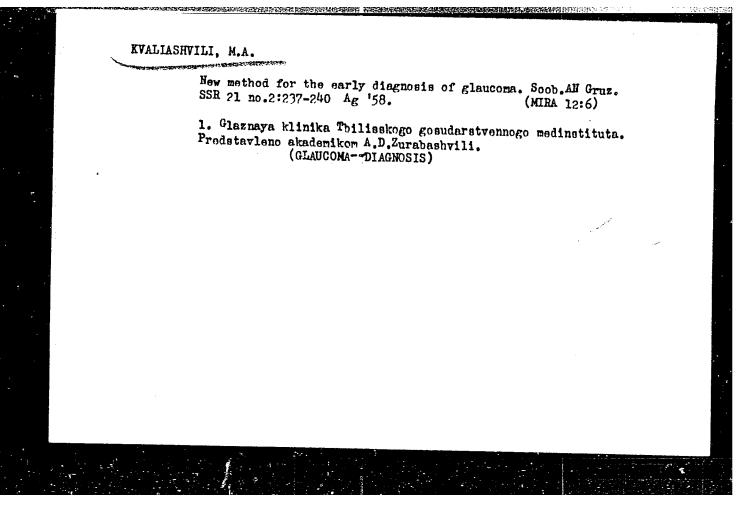
ZHIZHCHENKO, B.P.; KVALIASHVILI, G.A.

Miocene deposits of eastern Georgia. Soob. AN Gruz. SSR 27 no.1:39-42 Jl '61. (MIRA 16:8)

1. AN GruzSSR, Institut paleobiologii, Tbilisi. Predstavleno akademikom AN GruzSSR L.Sh.Davitashvili.
(Georgia--Geology, Stratigraphic)







KVALIASHVILI, M. A. Cand Med Sci -- (diss) "Application of small doses of K-rays for the purpose of arriving strong early diagnosis of glaucoma." Tbilisi, Publishing House of the Acad Sci Georgian SSR, 1959. 10 pp (Tbilisi State Med Inst), 200 copies (KL, 41-59, 106)

-43-

Use of small doses of I rays in the early diagnosis of glaucoma. Vest. oft. 72 no.6:13-16 H-D '59. (MIRA 13:5) 1. Glaznaya klinika Tbilisekogo meditsinskogo instituta (sav. bafedroy glaznykh bolezney - prof. Sakharulidse) i Respublikanskaya klinicheskaya bol'nitsa imoni Tarsaidse (glavnyy vrach P.D. Macharashvili). (GLAUCOMA diag.) (RADIATION EFFECTS)

KVALIBOVA, S. B.

KVALIBOVA, S. B.: "Pharmacological Properties of Preparations of Fragrant Goosefoot -- Chenopodium Botrys L." Published by the Acad Sci Turkenn SSR. Acad Sci Turkmen SSR. Department of Biological and Agricultural Sciences. Ashkhabad, 1956. (Dissertation for the Degree of Candidate in Veterinary Science)

So: Knizhnaya Letopis', No. 18, 1956.

S/137/60/000/011/035/043 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 11, p. 251, # 27246

AUTHORS:

Tavadze, F.N., Tskitishvili, M.D., Doliashvili, K.A., Mandzhgalad-

ze, S.N., Valiya, T.M., Nabichvrishvili, M.A.

TITLE:

The Effect of Carbon and Silicon on Heat and Scale Resistance of

Alloys of the Iron-Chrome-Manganese System

PERIODICAL:

Dokl. Nauchno-proizv. konferentsii mashinostroiteley i priboro-

stroiteley, Leningrad, Sudpromgiz, 1959, pp. 169 - 180

TEXT: The authors studied the joint effect of C and Si on heat and scale resistance in cast and heat treated states of 2 series of alloys containing (in %): C 1.04 - 3.92; Mn 13.19 - 15.61; Cr 12.90 - 15.40; Si 0.66 - 4.46; P 0.028 - 0.147 (I); C 0.25 - 3.82; Mn 14.14 - 15.38; Cr 24.03 - 25.90; Si 0.21 - 6.82; P 0.04 - 0.25 (II); Heat treatment was conducted in vacuum quartz tubes by the following two ways: 1) stabilizing at 700 and 750°C for 500 hrs; 2) homogenizing at 1,050 - 500°C (stepped) for 350 hrs. It was established that during stabiliza-

Card 1/2

8/137/60/000/011/035/043 A006/A001

The Effect of Carbon and Silicon on Heat and Scale Resistance of Alloys of the Iron-Chrome-Manganese System

tion an increased C and Si content reduced heat resistance due to the formation of non-stable phases, namely austenite and carbides. During homogenization the alloys I show increased heat resistance, if their C content is 3.5 - 3.8%; the alloys II have 2 maxima of heat resistance: at 1.8 - 2.3% C; 0.3 - 1.0% Si and at 0.4 - 1.0% C and 6.0 - 7.0% Si. The alloys II show higher heat resistance after homogenization. The alloys investigated show satisfactory resistance of action up to 750°C and are not subjected to "growth" up to 950°C. C impairs scale resistance of II and has no effect on I. Si impairs scale resistance of II.

A.S.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

CIA-RDP86-00513R000928310007-1 "APPROVED FOR RELEASE: 06/19/2000

KVAL VASSER, M.P.

USSR / Pharmacology, Tomicology. Chemotherapeutic Agents.

U-7

Abs Jour

: Ref. Zh.-Biol., No 2, 1958, No 8135

Author

: Akovbyan, A.A., Zotova, M. E., Kval'vasser, M.P.

Inst

Title

: The Treatment of Luetic Patients According to the 1949 and 1951 Schemes.

Orig Pub

: Za Sotz. Zkravookhr. Uzbekistana, 1955, No 1, 32-35.

Abstract

: When the luetic patients were treated with penicillin according to the schemes of 1949 and 1951, the average disappearance of Treponema pallidum from the syphilides occurred in 10 or 15 hours (from 3 to 38 hours); the other average data were as follows: epithelization of the chancre in 12.5 days, disappearance of roseola in 5.8 days, resorption of lenticular popules in 9 days, and disappearance of nodules

Card

: 1/2

USSR / Pharmacology Toxicalogo / 19/2000 apeu CDAARDP86-00513R000928310007-1"

Abs Jour

: Ref. Zh.-Biol., No 2, 1958, No 8135

Abstract

: in 14 days. Observations which had been made over periods of 3 months to 4 years revealed that 3.12% of patients had relapses, 2.67% of which were found serologically and 0.45% - clinically.

32274 5/612/59/000/008/015/016 D218/D304

16.4400 AUTHOR:

Kval'vasser, V. I., Docent, Candidate of Technical

Sciences

TITLE:

On evaluating certain improper integrals by the opera-

tor method

SOURCE:

Kuybyshev. Industrial'nyy institut. Sbornik nauchnykh trudov, no. 8, 1959. Teplotekhnika; voprosy teorii rascheta i proyektirovaniya, 277-281

The following theorems are used: 1) Integration of the image TEXT: function from p to 00 corresponds to division of the original function by t, which is equivalent to

$$\int_{p}^{\infty} F(p)dp = \int_{0}^{\infty} \frac{f(t)}{t} e^{pt}dt$$
 (1;2)

2) Multiplication of two originals corresponds to the operation of Card 1/3

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310007-1"

32274 S/612/59/000/008/015/016 D218/D304

On evaluating certain ...

convolution in the domain of images. The author considers the integral

$$\int_{0}^{\infty} \frac{e^{-ax} - e^{-bx}}{x} dx = \ln \frac{b}{a}$$
(a>0, b>0) (2;1)

calculates it first by a classical method (for which he states not to have found any indications in the existing literature) and then by the operational method, which is found to be much simpler than the former. The integral

$$I_1 = \int_0^\infty \left[I_0(ax) - \cos bx \right] \frac{dx}{x}$$
(a,b>0) (2;8)

Card 2/3

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310007-1"

On evaluating certain ...

32274 S/612/59/000/008/015/016 D218/D304

where I_0 is the Bessel function of first kind and zero order, is calculated as follows: The image of $I_0(ax)$ - cos bx is $(1/\sqrt{p^2 + a^2} - p/(p^2 + b^2))$; integrating this with respect to p from p to ∞ and applying Eq. (1;2), $I_1 = \ln(2b/a)$. The author derives also the well known Dirichlet integral and

$$I_{3} = \int_{0}^{\infty} \frac{\sin at \sin bt}{t} dt$$
(a,b>0)

He states that several other integrals quoted by B. P. Demidovich (Ref. 4: Sbornik zadach i uprazhneniy po matematicheskomu analizu (Collection of Problems and Exercises in Mathematical Analysis, Part 7, GITTL, 1952) are easily calculated by this method. There are 4 Soviet-bloc references.

Card 3/3

X

KVAL'VASSER, V.I., kand. tekhn. neuk; ANDRUSHEVICH, Yu.M., kand. tekhn. nauk, dotsent; NOVOSELOV, Yu.A., inzh.

Effect of torsional vibrations of the drive from the spindle to support in the 1811 semiautomatic relieving lathe on the quality of machined parts. Izv.vys.ucheb.zav.; mashinostr. no.4:160-167 164.

1. Kuybyshevskiy politekhnicheskiy institut.

(Mika 18:1)

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	1.740	41990		-				
	AUTHOR:	Kval'vasser,	V.I.; Rutner,	Ya.F.	•	5/057/64/	1034/007/11	10/1174
•	TITLE: tic fie	On the probl	om of the expa	nsion of a	neutral pla	ama into an	external' macon	
•	SOURCE:	Zhurnal tekhi	icheskoy fizi	ki, v.34. n	0.7 1064	1170		
	TOPIC 17	NGS: plasma []	ow, magnetic ;	field plasma	Leffect o]	ic field _	
	lowing i at time	initial and bo $t = 0$, the fi	equations for undary conditi eld is a unifo	the vacuum ons express rm magnetic	are solved ed in cylin	in closed fordrical coord	orm for the fo	DI
	to the z	axis and of etic fields v	the initial mannish for r	ld approach gnitude as Vt. Where v	es a unifor	m magnetic f at time t, t	z axis and fi ield parallel he electric	
	rectangu	lar Cartesian	coordinates x	lved for the	following	conditions	n the velocit expressed in	
	Proudings.	a uniform mag	o the z axis and penetic field penetic	rallel to t	he z axis	at all times and of the in	the field and title the title that t	
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ACCESSION NR: AP4041990	
tude as x -> co; and at time to the class	The state of the s
tude as x -> 00; and at time t, the elect < x < v2t, where v1, v2 are constants, v1 Danding at these solutions represent the	ric and magnetic fields vanich for wat
panding at constant speed into	<pre>ric and magnetic fields vanich for y_lt < v₂, and both are less than the velocity lelds of a perfectly conducting plane.</pre>
of light. These solutions represent the financial panding at constant speed into a uniform a plane source. The analogous problem for art. has 27	agnetic field from a line server plasma ex-
a plane source. The analogous problem for from a point source has been discussed by ASSOCIATION.	a plasma expanding into a magnetic field
	(J. of Math. Phys. 2, 1, 1961) . Orig.
ASSOCIATION: none	
SUBMITTED: 19Aug63	
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L 41486_65 ENT(d)/T IJP(c) ACCESSION NR: AP4041390 S/0020/64/156/006/1273/1276 AUTHORS: Kval'vasser, V.I.; Rutner, Ya.F. TITLE: A method for finding Green's function for boundary-value problems involving the heat equation, for a line segment with endpoints moving at a uniform rate SOURCE: AN SSSR. Doklady*, v, 156, no. 6, 1964, 1273-1276 TOPIC TAGS: boundary value problem, partial differential equation parabolic equation ABSTRACT: A method for finding GREEN's function for boundaryvalue problems involving the heat equation, for a line segment with end-points moving at a uniform rate. In general, boundary-value problems for the heat equation, for a region with variable boundary, lead to a system of VOLTERRA integral equations of the second kind. In the special case considered here, that of a line segment with end-points moving at a uniform rate, the heat equation is written in the form G(z, 1; 24, 10)==- $\frac{1}{2}$ sign $(z_0-z)\delta(z-z_0)\delta(l-l_0)$, 1/3 Card

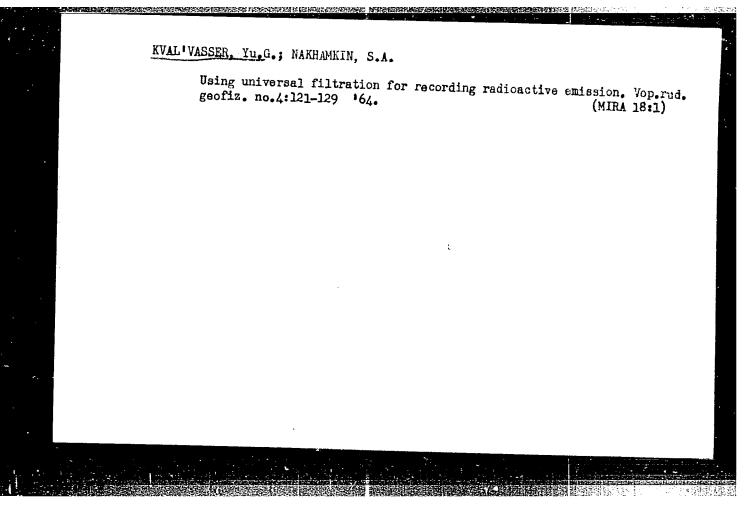
L 41486-65
ACCESSION NR: AP4041390

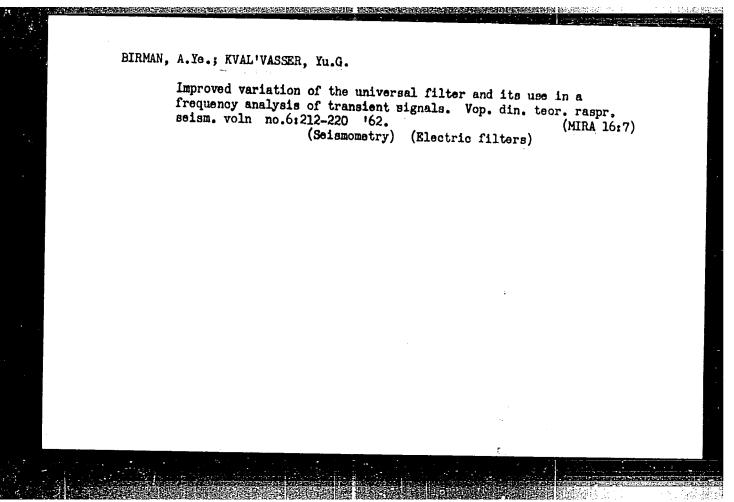
where G is the GREEN function to be determined, subject to the (first kind) boundary conditions $G(t,t;z_0,t_0)|_{t=0,t}=0.$ $G(t,t;z_0,t_0)|_{t=0,t}=0.$ The problem is solved by first changing to a coordinate system fixed relative to the moving left end-point of the line segment (letting to z - v,t, t, z - v,t), then taking Laplace transforms. This leads to a pair of arbitrary functions, to be determined by the boundary conditions, through an integral equation. A second application of LAPLACE transform methods yields a differents equation. Finally, the solution is given by: $G(\xi,t;\xi_0,t_0) = \frac{1}{2\sqrt{\tan(t-t_0)}} \exp\left[\frac{v_1}{2a}(\xi_0-\xi) - \frac{v_1^2}{4a}(t-t_0)\right] \times \exp\left[-\frac{k_1^2 L_{0,0}}{a} - \frac{k_1^2 L_{0,0}}{a} - \frac{k_1^2 L_{0,0}}{a}\right] \times \exp\left[-\frac{k_1^2 L_{0,0}}{a} - \frac{k_1^2 L_{0,0}}{a}\right]$

L 41486-65							
ACCESSION NR: AP4041390 $\mu'(\xi_0) = \exp\left[-\frac{(\xi_0 - \xi)^2}{4a(\ell - \ell_0)}\right] - \exp\left[-\frac{(\xi_0 + \xi)^2}{4a(\ell - \ell_0)}\right] V_2 = V_1 - V_1, \ L_2 = l + V_2 t_2$ The author states that his method can be applied to the direct solution of boundary-value problems of various types.							
ASSOCIATION: None	itue problems of various	types.					
SUBMITTED: 01Feb64		Encl.: 00					
SUB CODE: MA	NR REF SOY: 004,	OTHER: 001					
Card 3/3		2013년 전 10 10 10 10 10 10 10 10 10 10 10 10 10					

EPF(n)-2/EPR/EPA(s)-2/EWG(v)/EWT(d)/T/EWA(1) Ps-5/Ps-4/Pt-7/Pu-4 Lulillió-65 IJP(c) W ACCESSION NRE AP5010072 R/0170/65/008/004/0479/048 AUTHOR: KVAL VARBET, V. I.; Rutner, Yo. P. TITLE: Green's functions of boundary-value problems for the heat conduction equation for domains with uniformly moving boundaries Source: Inzhenerno-fizicheskby zhurnal, v. 8, no. 4, 1965, 479-484 TOPIC TAGS: boundary value problem, heat conduction equation, Green's function determination ABSTRACT: It is indicated that there are no general methods for solving boundary-value problems for the heat conduction equation in the case of domains with movable boundaries. The authors present a way for determining the Green's functions of boundary-value problems for the heat conduction equation in two cases: a) for a half-line with a uniformly moving boundary, and b) for a straight-line segment with a uniformly and parallel moving boundary. Using the Laplacetransform method, expressions for the Green's functions are derived in closed form for case a) for boundary conditions of the first, ... second, and third kinds. In case b), the Green's functions are de-Card 1/2

ACCESSION NR: AP5010072				0
rived for three kinds of boundary conditions in a form similar to that obtained for domains with fixed boundaries. It is indicated that the Green's functions can be similarly obtained for other type of boundary conditions. Orig. art. has: 18 formulas. [LK]				
ASSOCIATION: none				
SUBMITTED: 17Jan64	encli	00	SUB CODE: 1	A;TD
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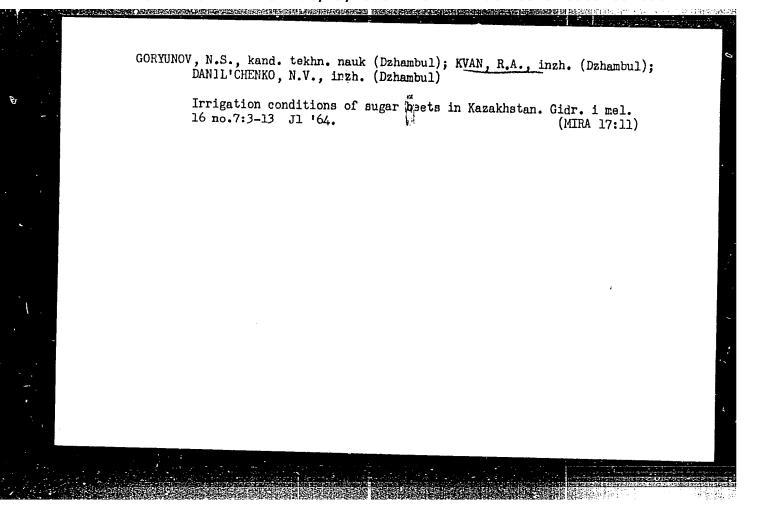


BIRMAN, A.Ye.; GOL'TSMAN, F.M.; KARTAVTSEV, S.M.; KVAL'VASSER, Yu.G.;
NAKHAMKIN, S.A.

Seventeen-channel controlled directional device using delay lines. Vop. din. teor. raspr. seism. voln no.4:230-241 '62.

(NIR: 15:10)

(Seismic prospecting-Electric equipment)



KVANCHAKHAIZE, G.Sh. kand. med. nauk; DZHANGAVADZE, O.Sh., nauchnyy sotrudnik; DZHANDUROV, A.B., kand. tekhn. nauk

Hygienic aspects of the operation of a corn picker. Gig. i san. 24 no.5:22-25 My 159. (MIRA 12:7)

1. Iz Nauchno-issledovatel'skogo instituta gigiyeny truda i professional'-nykh zabolevaniy Ministerstva zdravookhraneniya Gruzinskoy SSR.

(AGRICULTURE.

hyg. aspects of use of corm-harvesting combine (Rus))
(INDUSTRIAL HYGIENE,
same)

PITSKEHELAURI, G.Z.; KVANCHAKHADZE, G.Sh. (Tbilisi)

Providing additional training for general practitioners. Gig. truda 1 prof. zab. 4 no.3:53-54 Mr '60. (MIRA 15:4)

1. Nauchno-issledovatel'skiy institut gigiyeny i professional'nykh zabolevaniy imeni N.I.Makhviladze.

(MEDICINE--CONGRESSES)

KVANCHAKHADZE, GaSha; DANDUROV, A.B.; KETILADZE, K.Ye.; CHINCHALADZE, G.G.; KURASHVILI, M.Ye. (Tbilisi)

Silicosis hazards at the Chiatura manganese mines. Gig. truda i prof. zab. 4 no. 7:48-49 Jl 160 (MIRA 13:8)

1. Institut gigiyeny truda i profzabolevaniy im. N.I. Makhviladze. (CHIATURA—LUNGS—DUST DISEASES)
(MANGANESE—PHYSIOLOGICAL EFFECT)

MANDZHGALADZE, R.N., otv. red.; DZHANGAVADZE, O.Sh., red.;

KVANCHAKHADZE, G.Sh., red.; KIPIANI, S.P., red.;

KUMASHVILI, M.Ye., red.; MOINARADZE, V.L., red.;

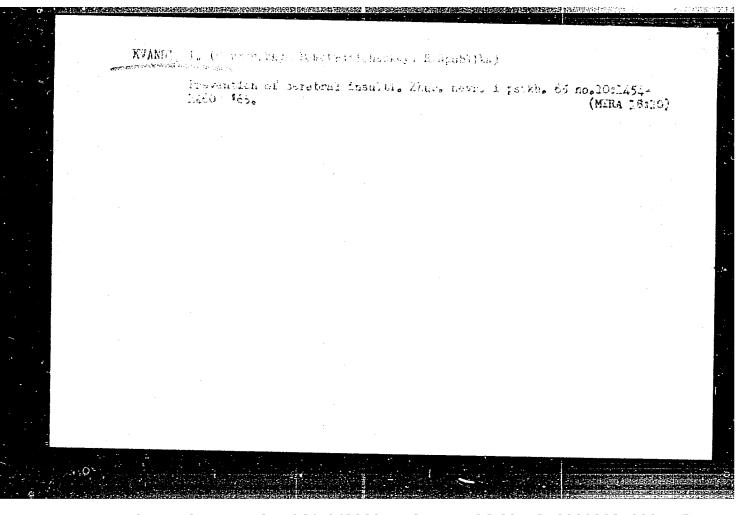
ROKVA, V.A., red.; ROSTOMEROVA, N.V., red.;

KHERODINASHVILI, A.Z., red.

[Materials of the scientific session dedicated to the 35th anniversary of the Institute on June 4th - 6th, 1964, Materialy nauchnoi sessii, posviashchennoi 35-letiiu instituta, 4-6 ilunia 1964 g. Tbilisi, 1964. 110 p.

(MIRA 18:1)

1. Gruzinskiy nauchno-issledovatel'skiy institut giglyeny truda i profzabolevaniy. 2. Gruzinskiy nauchno-issledovatel'skiy institut giglyeny truda i profzabolevaniy.



KVANICA, L.

Swiss machines for the protection of plants. p.256. (Mechanisace Zemedelstvi, Vol. 7, No. 11, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessiors (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

	KVANIN, P.I.	
- -	Fastening the idle chain wheel of the rod supporting head. Sbor. rats. predl. vnedr. v proizv. no.2:29 '61.	
	1. Azerbaydzhanskiy truboprokatnyy zavod. (Pipe mills)	
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•		
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KVANINA, L.I., MANZHIEOVA, G.A., SVESHNIKOV, P.M., TOLOKOMNIKOV, V.V., FOMIN, V.M., GRAMM, M.N., VASTYUTINSKAYA, A.B.

"Akchagyl Deposits in the Lower Reaches of the Amu-Darya" Dokl. Uz. SSR, 1953, No 12, 18-21, (Uzbekistan resume)

In 1952 in the lower reaches of the Amu-Darya during columnar drilling in a number of wells the drillers uncovered sandstone-clay deposits of the Akchagyl age with thicknesses up to several dozen meters. These deposits lie on an eroded surface of the Paleogene and are superimposed by ancient delta sedimentary deposits of the Anthropogene. The character of the ostracod fauna testifies to the strong fresh-water nature of Akchagyl gulf. (RZhGeol, No 3, 1954)

SO: W-31187, 8 Mar 55

	_		-
1.	KVANTALTANI.	A. S	3.

- 2. USSR (600)
- 4. Millet Georgia
- 7. Stubble-sown foxtain and proso millet for seed on irrigated areas of eastern Georgia /in Georgian with Russian summary/. Trudy Inst. pol. AN Grus. SSR 6, 1951.

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

- 1. KVANTALJANI, A.S.
- 2. USSR (600)
- 4. Geology, Stratigraphic Terek Valley
- 7. Stratigraphy of the Chokrak deposits of the Terek piedmont lowland, Inv.AN SCER. Ser.geol. no. 3, 1952.

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

USSR/Human and Animal Physiology. The Nervous System.

v

Abs Jour: Ref. Zhur-Diol., No 6, 1958, 27440.

Author : G.S. Kvantaliann

Inst : The Institute of Cardiology of the Academy of

Sciences of the Georgian SSR.

Title : The Status of Higher Nervous Activity Associated

With Various Forms of Experimental Hypertension.

Orig Pub: Stenogr. otchet nauchn. sessii In-ta kardiol.

AN GrutssR, s uchastiyem In-ta fiziol. AN USSR. Toilisi.

AN GruzSSR, 1956, 124-128.

Abstract: In experimental renal hypertension in two dogs,

along with an increase in blood pressure of from 120-130 to 190-205 mm Hg, a brief increase in cortical excitation was observed (augmentation of salivation in response to a strong conditioned

Card : 1/3

116

USSR/Human and Animal Physiology. The Nervous System.

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27440.

food stimulus), along with subsequent weakening of the processes of stimulation (a gradual decline in reflex salivation) and inhibition (disturbance in discrimination and prolongation of the extinction time of a reflex); excitation of subcortical mechanisms was also seen (a sudden increase in unconditioned salivation). Analogous changes were observed in one dog in the presence of reflex hypertension (when the pressure still did not exceed 150-155 mm); Alterations in higher nervous activity rose with the degree of elevation of the pressure (up to 200 mm). Significant disturbances in higher nervous activity (the absence of conditioned reactions) were observed from the very first day in the case of kaolin (centrogenic) hypertension

Card : 2/3

USSR/Human and Animal Physiology. The Nervous System.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27440.

(one dcg); subsequently salivation in response to all stimuli was substantially reduced and disturbances in inhibitory reactions were noted. In the emergence and development of the forms of hypertension studied, disturbances in the function of the higher divisions of the CNS are of significance.

Card : 3/3

117

USSR/Human and Animal Physiology - Nervous System. Higher Nervous System. Behavior.

T-10

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 32238

Author

: Kventaliani

Inst Title

: Change of Higher Nervous Activity During Experimental

Renal Hypertension.

Orig Pub

: Tr. In-t klinich. i eksperim. kar diol. AN GruzSSR

1956 (1957), 4, 189-197.

Abstract

: No abstract.

Card 1/1

- 154 -

USSR/Human and Animal Physiology (Normal and Pathological).

T-14

: Ref Zhur - Biol., No 11, 1958, 51314

Author

Abs Jour

: Kvantaliani, G.S.

Inst

: Institute of Clinical and Experimental Cardiology, Academy

of Sciences Georgian SSR.

Title

: The Dynamics of Modifications in Conditioned Reflex activi-

ty of Dogs in Various Forms of Experimental Hypertension.

Orig Pub

: Tru In-ta klinich, i eksperin, kardiol, AN GruzSSR, 1956

(1957), 4, 381-385.

Abstract

: After food conditioned reflexes (CR) were preliminarily produced in 5 dogs, and after norms of their blood pressure, pulse rate, and respiration rate were established. cortical hypertension (CH) was created in 2 of the dogs,

a renal form of hypertension (CH) was created in 2 of the

Card 1/2

- 145 -

KUANTALiAN;

USSR/Weeds and Weed Control. Herbicides.

Μ

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69505

Author

: Kvantaliani

Title

: Agrotechnical Measures for Combatting Sorghum Alepens.

Orig Pub : Tr. In-ta polevodstva AN GruzSSR, 1956, 9, 17-39

Abstract : The experiments were conducted on the grounds of the Central base in the Institute of field culture, Academy of Sciences Georgian SSR. The soils are loamy and heavily clayey. Sorghum halepense √in the article it is called Alepense 7. The main mass of roots is thick and lies in the arable land (0 to 20 cm). Young growth which appears after 6 to 8 days after gathering the grain is easily destroyed by plow PL-5-25 to a depth of 8 to 10 cm. In the subsequent plowing 20 to 25 days later to a depth of 15 to 17 cm, on an area of 1 m^2 of the next sowing of corn, on the average 1 sprout remained where 14 to 18 sprouts remained previously in other forms of cultivation.

Card 1/1

KVANTALIANI, G. S. Cand Med Sci -- (diss) "Changes in higher nervous activity during various types of experimental hypertension." Tbilisi, 1957. 14 pp (Tbilisi State Med Inst), 200 copies (KL, 3-58, 99)

MATESHVILI, G.I.; CHANISHVILI, I.V.; CHIMAKADZE, G.N.; KVANTALIANI, G.S.; TELIYA, Z.A.

Study of the functions of the cardiovascular system in different types of sports (Greco-Roman wreastling, fress-style wrestling, telle tennis). Trudy Inst. klin. i eksper. kara AN Gruz. S'R 8:519-524 '63. (MIRA 17:7)

1. Institut kardiologii AN GruzSSR, Tbilisi.

BENEFICIAL BENEFICIAL DE LA CONTROL DE LA CO

KVANTALIANI, I. D.

KVANTALIANI, I. D.: "Material on the problem of the effect of malaria on the female reproductive organs and pregnancy (clinical-experimental investigation)." Georgian State Publishing House for Medical Literature. Tbilisi State Medical Inst. Tbilisi, 1956. (Dissertation for the Degree of Doctor in Medical Science)

Source: Knizhnaya letopis' No. 28 1956 Moscow

KVANTALIAZNI, I.D.

Control of pospartum atonic hemorrhage of the uterus. Acush.i gin. no.4:53-56 '61. (MIRA 15:5)

l. Iz rodil'nogo doma No.1 Tbilisi (glavnyy vrach - doktor med.nauk dotsent I.D. Kvantaliani) i akushersko-ginekologichesko; kliniki (zav. - prof. I.F. Zhordania) Tbilisskogo instituta usovershenst-vovaniya vrachey.

(HEMORRHAGE, UTERINE)

KVANTALIANI, K.I.

Some problems for singular integrodifferential equations containing a small parameter. Soob. AN Gruz. SSR 39 no.3:519-525 S 165. (MTRA 18:10)

1. Tbilisskiy matematicheskiy institut imeni Razmadze AN GruzSSR. Submitted December 12, 1964.

KVANTALIANI, K.I.

Integrodifferential equations of the Volterra type with small parameters and highest derivatives. Soob.AN Gruz.SSR 26 no.3: 265-272 Mr '61. (MIRA 14:4)

1. AN Gruzinskoy SSR, Tbilisskiy matematicheskiy institut im.

A.M.Razmadze. Predstavleno chlenom-korrespondentom AN Gruzinskoy SSR N.P.Vekua.

(Integral equations)

s/044/62/000/005/022/072 C111/C333

16.4500 AUTHOR:

Kvantaliani, K.I.

TITLE:

On a boundary value problem for integro-differential equations of the Volterra type with small parameters with

the higher derivatives

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 5, 1962, 77-78, abstract 5B350. ("Soobshch. AN GruzSSR", 1961, 27, No. 2,

129-136)

TEXT:

Considered is the equation

$$\left[\sum_{k=0}^{t} \epsilon^{k} a_{m+k}(t, \epsilon) \varrho_{\epsilon}^{(m+k)}(t) + \sum_{j=0}^{m-1} \{a_{j}(t, \epsilon) \varrho_{\epsilon}^{(j)}(t) + \int_{0}^{t} K_{j}(t, \tau, \epsilon) \varrho_{\epsilon}^{(j)}(\tau) d\tau\right] - f(t, \epsilon), \quad (1)$$

where $a_g(t,\epsilon)$, $K_j(t,\tau,\epsilon)$ and $f(t,\epsilon)$ are given functions. The equation

$$a_{mo}(t)^{(m)}(t) + \sum_{j=0}^{m-1} \left[a_{jo}(t)^{(j)}(t) + \int_{0}^{t} K_{jo}(t,\tau)^{(j)}(\tau) d\tau \right] = f_{o}(t)$$
(2)
Card 1/2

 $S/044/62/000/005/022/072 \\ \text{C111/0333}$ On a boundary value problem... is designated as the degenerated equation of (1). Problem K_{ξ} : Determine the solution of (1) with the boundary conditions $Q^{(n)}(1)=0$ (n=0,...,m-1), $Q^{(m+j)}(0)=0$ (j=0,...,l-1). Problem K_0 : Determine the solution of (2) with the boundary conditions $Q^{(n)}(1)=0$ (i=0,...,m-1). The author uses the N.P. Vekua method (RZhMat, 1961, 11B218) and finds sufficient conditions for the solution of K_0 for $\ell \to 0$. [Abstracter's note: Complete translation.]

KVANTALIANI, K.I.

Boundary value problems for small-parameter integrodifferential equations. Soob. AN Gruz. SSR 30 no.5:545-552 My '63.

(MIRA 16:11)

1. Tbilisskiy matematicheskiy institut imeni A.M.Razmadze AN Gruz SSR. Predstavleno akademikom N.P.Vekua.

SISAKYAN, N.M.; YEGOROV, I.A.; BERIDZE, G.I.; KVANTALIANI, N.

New methods for improving the quality of cognac. Biokhim. vine no.7: 164-172 163. (MIRA 16:4)

1. Institut biokhimii imeni A.N.Bakha AN SSSR i Institut sadovodstva, vinogradarstva i vinodeliya Gruzinskoy SSR.
(Brandy)

BARABADZE, I.I.; BAKRADZE, G.S.; BERIDZE, G.I.; VAKHVAKHISHVILI, N.I.;
GABUNIYA, G.A.; TABUNIYA, Sh.V.; GANGIYA, A.A.; COGOBERIDZE, Ya.A.;
DZIMISTARISHVILI, A.I. [deceased]; ZNAMENSKIY, K.F.; KVANTALIANI,
N.A.; NIKOLAYSHVILI, V.S.; TOPADZE, L.I.; KHUNTSARIYA, A.G.; YAKOBASHVILI, N.Z.; DZHOMARDZHIDZE, G.S., red.; ROYNISHVILI, N.I., red.;
PRITYKINA, L.A., red.; KISINA, Ye.I., tekhn. red.

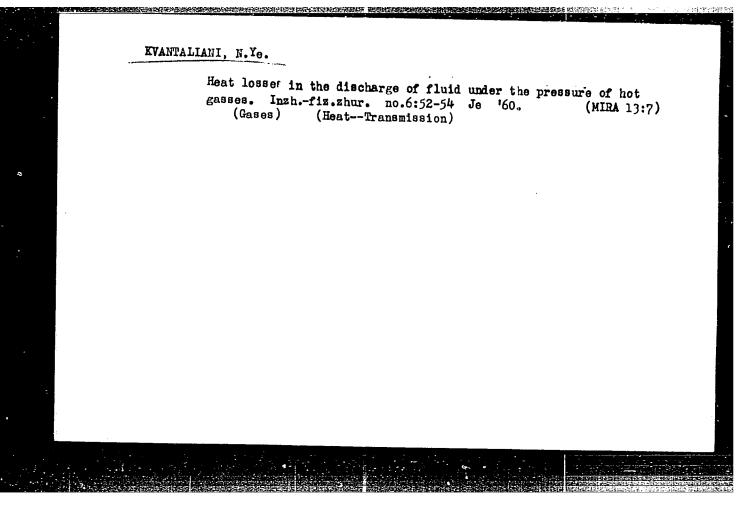
[Food industry of the Georgies S.S.B. during the december of the Coordinates.

[Food industry of the Georgian S.S.R. during the last 40 years]
Pishchevaia promyshlennost Gruzinskoi SSR za 40 let. Moskva.
Pishchepromizdat, 1961. 162 p. (MIRA 14:9)
(Georgia—Food industry)

NEBESNOV, Viktor Ivanovich, prof.; KVANTALIANI, N.Ye., inzh., retsenzent; NAYDENKO, O.K., kand. tekhn. nauk, prof., retsenzent; KOZHEVNIKOV, S.N., nauchn. red.; NIKITINA, R.D., red.

[Problems in the joint operation of ship engines, propellers and the hull; studies with electronic analog computers] Voprosy sovmestnoi raboty dvigatelei, vintov i korpusa sudna; issledovaniia na EVMND. Leningrad, Sudostroenie, 1965. 246 p. (MIRA 18:9)

1. Chlen-korrespondent AN Ukr.SSR (for Kozhevnikov).

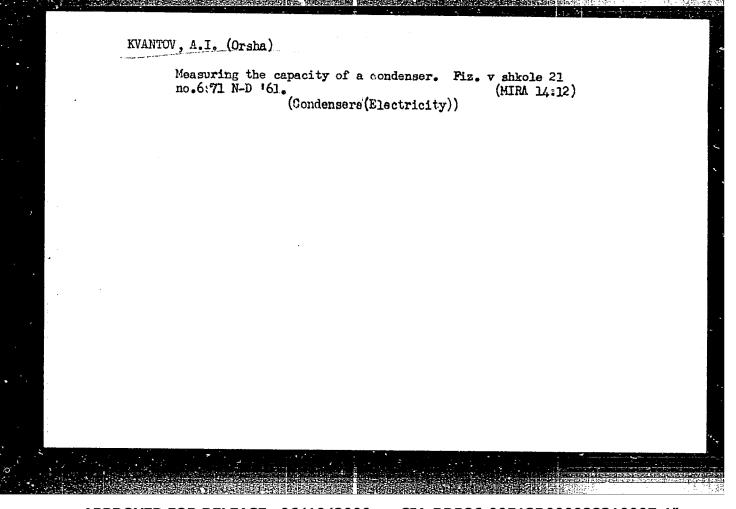


KRASIL'NIKOV, Boris Konstantinovich; MEZHENNYY, Vladislav Ivanovich; SIDOROV, Vasiliy Fedorovich; TSIRKIN, M.I., retsenzent; PETROV, Yu.P., retsenzent; KVANTALIANI, N.Ye., nauchn. red.; NIKITINA, R.D., red.

A CONTRACTOR OF THE PROPERTY O

[Experience in the automation of the control of marine diesel engines] Opyt avtomatizatsii upravleniia sudovymi dizeliami. Leningrad, Sudostroenie, 1965. 177 p.

(MIRA 18:3)



CANADA CHE SINCE S

(MIRA 11:7)

KVANTRISHVILI, V.G., mashinist-instruktor

Locomotive engineer-instructor V. G. Kvantrishvili shares his

1. Depo Moskva 1, Moskovsko-Kursko-Donbasskaya doroga.

experience. Elek. i tepl. tiaga 2 no.7:35-38 Jl '58.

(Electric locomotives)

KVAPII, A. I. I LEPESHKIN, V. I.

42512. Peredovaya Kolkhoznaya Zverovodcheskaya Ferma. (Kolkhoz Krasnyy Oktyahr. Tobol. Rayon Tyumen. Obl.) Karakulevodstvo I Zverovodstvo, 1948, No. 6, S. 40-42.

EVAFIL', A. I.

2481 <u>KVAFIL', A. I.</u> Heropiyatiya po pod"emu kolkhoznogo krolikovodstva.

Karakulevodstvo i zverovodstvo, 1949, No. 4, S. 53-55.

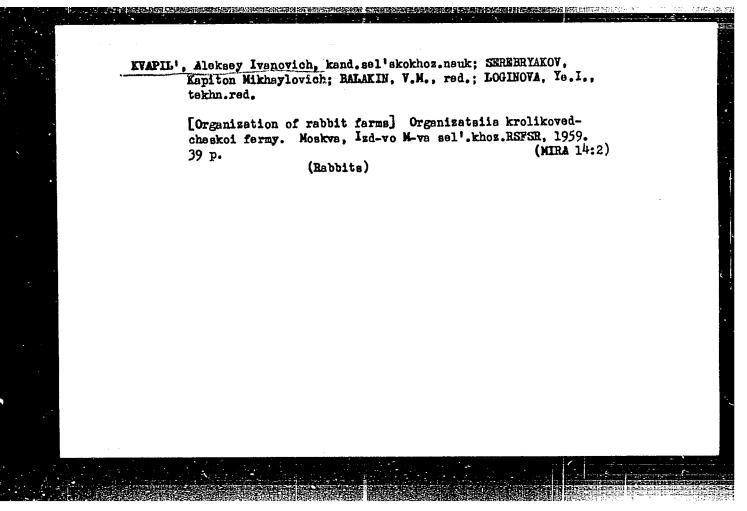
SO: Letopis, No. 32, 1949.

KVAFILI, A. I.

Rabbits

State of rabbit farming and measures for developing it. Kar. i zver., 5, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952, UNCL.



KVAPIL; Aleksey Ivanovich; GUSEV, Boris Aleksandrovich; SEREBRYAKOV, Kapiton Mikhaylovich; ZAGORSKIY, G., red.; KUZNETSOVA, A., tekhn. red.

[Advice for the rabbit grower] Sovety krolikovodu. Izd.2., ispr. i dop. Moskva, Mosk. rabochii, 1961. 134 p.

(Rabbits)

VAGIN, Ye.A., kand. sel'khoz. nauk; KVAPIL', A.I., kand. sel'khoz. nauk[deceased]; KLETSKIN, P.T., kand. sel'khoz.
nauk; UTKIN, L.G., kand. biol. nauk. Prinimal uchastiye KLADOVSHCHIKOV, V.F., kand. sel'khoz. nauk;
ZAVARSKIY, A.I., red.

[Fur farming and rabbit husbandry] Pushnoe zverovodstvo i krolikovodstvo. Moskva, Kolos, 1965. 286 p. (MIRA 18:7)

l. Nauchno-issledovatel skiy institut pushnogo zvero-vodstva i krolikovodstva (for all except Zavarskiy).

Effect of the dynamic stress on the susceptibility factor of resistance tensometers. Stroj cas 13 no.5:450-458 '62. 1. Konstrukta n.p., Trencin.

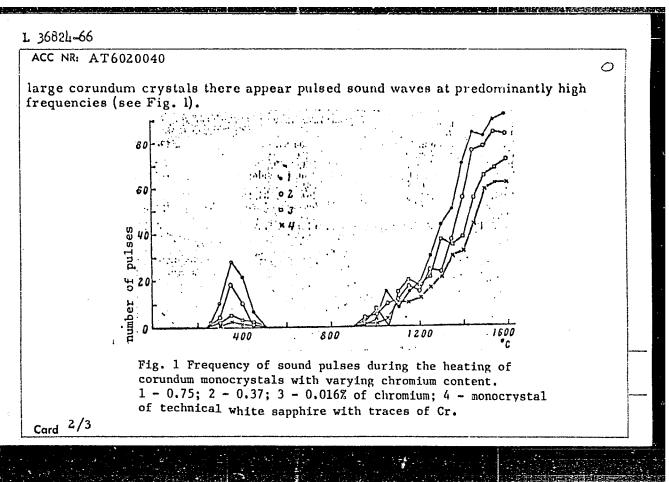
KVAPIL, F.; VICH, Z.

Tumours in childhood observed at the radiological clinic in Prague in the years 1945-1960. Neoplasma 8 no.6:601-607 161.

1. Radiological Clinic of the Charles! University, Prague, Czechoslovakia.

(NEOPLASMS in inf & child)

EWT(1)/T/EWP(e) SOURCE CODE: UR/2564/65/005/000/0368/0372 ACC NR: AT6020040 AUTHOR: Kvapil, I. (Czechoslovak Socialist Republic); Kment, V. (Czechoslovak Socialist Republic); Barta, Ch. (Czechoslovak Socialist Republic) 1تى B+/ ORG: none 21 TITLE: The application of acoustical thermal analysis to monocrystals of corundum SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 5, 1965, 368-372 TOPIC TAGS: thermal acoustic effect, corundum, single crystal The theory of thermal capacity of solids indicates that there exists ABSTRACT: a close correspondence between acoustic and thermal oscillation of the crystalline lattice. However, sound accompanying the thermal changes in crystalline lattices is quite weak and the introduction of amplification devices leads to a simultaneous enhancement of various background noises. To avoid this shortcoming, the authors decided to transmit signals at a high-frequency band much higher than the frequency of noises from the surrounding medium. Since this so-called acoustical thermal analysis produced interesting results in soft crystalline materials the authors decided to test monocrystals of corundum with varying chromium content. The sensor contained a quartz plate with a resonant frequency of 100 kc, the temperature gradient could be raised up to 100C/min during heating by Pt-Rh electric oven up to 1600C. Results show that during fast temperature changes in Card 1/3



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The sound pulse production in the high temperature region is connected with the simultaneous action of tensions and of the temperature drop. Orig. art. has: 3 figures.				
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CZECHOSLOVAKIA / Analytical Chemistry. Inorganic Analysis. E

: Ref Zhur - Khimiya, No 23, 1959, No. 81921 Abs Jour

Kvapil, Jan Author

: Determination of Potassium with Sodium Inst

Tetraphonyl Borate in the Quality Control of Title

the Production of Potash

; Kvasny prumysl, 1958, 4, No 4, 87 Orig Pub

: For the determination of K in the quality control of the production of potash, the use of Abstract sodium tetraphenyl borate is recommended. The sample is evaporated with conc. HCl and HNO3 (to remove ammonium salts); the residue is dissolved in water; the solution (30-40 mg K) is acidified, using methyl orange as indicator; it is heated to 60-70°, and 25 ml 2% solution

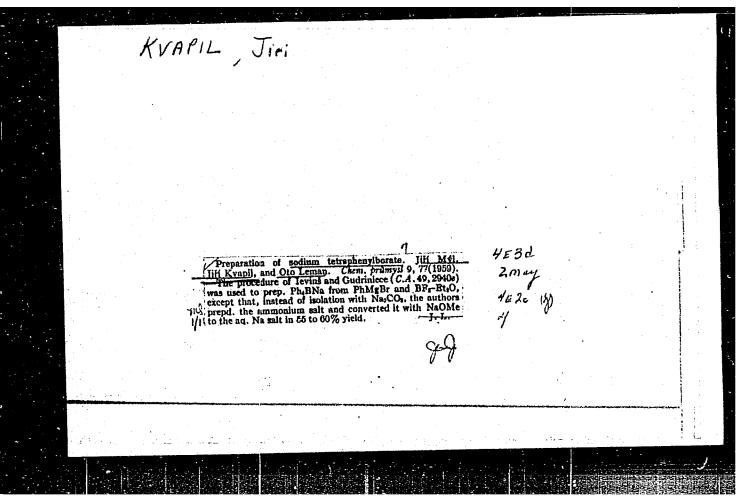
Card 1/2

APPROVED: TORARELEASE: a D6:/11942000m1stCTA-RDP86-00513R0009283 10007-1"

: Ref Zhur - Khimiya, No 23, 1959, No. 81921 Abs Jour

> of sodium tetraphenyl borate is added while stirring. Upon cooling, the residue is filtered off, washed three times on a filter with a saturated solution of solum tetraphenyl borate, dried for one hour at 1050 and weighed. -- T. Zvarova

Card 2/2



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310007-1"

KVAPIL, J.; STIKSA, E.; SNAID.V.

Experiences with anesthesia in gynecological surgery and comments on current problems. Cesk. gynek. 29 no.58387-390 Je 64.

1. I. gyn.-por. klin. fak. vssob. lek. KU [Karlovy university] v Praze; prednosta: prof. dr. K.Klaus, DrSc.

KVAPIL, Jiri; CECH, Evzen; STRIBRNY, Josef

Experience with hydroxydione in labor. Cesk. gyn. 27[41] no.5:413-415 Je 162.

1. I gyn.-por. klin. KU v Praze, prednosta prof. dr. K.Klaus, DrSc. (HYDROXYDIONE ther) (ANESTHESIA OBSTETRICAL)

CERNY, J. KALOUSKOVA, J.; KVAPII., J.

Experiences with divinyl ether in short obstetrical operations. Cesk. gynek. 29 no.98661-663 N ' 64

1. I. gyn-por. klin. fak. vseob. lek. Karlovy University v Praze (prednosta prof. dr. K.Klaus, DrSc).

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KALOUSKOVA, J.; KVAPIL, J.; NEUGEBAUEROVA, L.; KANDRAC, M.

Use of hydroxydione in cesarean section. Cesk. gymek. 29 no.91663-666 N * 64

l. I. gyn-por.klin. fak. vseob. lek. Karlovy University v Praze (prednosta prof. dr. K.Klaus, DrSc) a III. int. klin. fak. vseob. lek. Karlovy University v Praze (prednosta akademik J. Charvat).

KVAPIL, J.; CECH, E.; KALOUSKOVA, J.

Experiences with the use of hydromydione for analgesia in labor. Cesk. gynek. 29 no.9:548-550 N ' 64.

1. I gyn. - por. klin. fak. vseob. lek. Karlovy University v Praze (prednosta prof. dr. K. Klaus, DrSc.)

Pharmacology and Toxicology



CZECHOSLOVAKIA

KVAPIL, J.: LISKA, M.; Farmakon, National Enterprise (N.P.), Olomouc.

"Determination of 2,3-Isopropylide ne-L-sorbose and 2,3,4,6-Disopropylidene-L-sorbose in Preparation of L-Ascorbic Acid."

Prague, Ceskoslovenska Farmacie, Vol 15, No 10, Dec 66, pp 517 - 521

Abstract /Authors' English summary modified_7: The two chemicals may be determined either by a method based on hydrolysis or one based on polarimetry. Hydrolysis is conducted at pH = 3 and at boiling. Acetone is liberated and determined by Messinger's method. Sorbose is protected from oxidation by addition of tetraborate with which it forms a complex. Polarometric determination is made in a medium of toluene where the substances have a high specific rotation. 2 Figures, 2 Tables, 2 Western, 2 Czech, 2 Russian references. (Manuscript received 7 Dec 65).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310007/1-56

AUTHOR: Brezina, B.; Safrankova, M.; Kvapil, J.

ORG: Institute of Physics, Czechoslovak Academy of Sciences, Prague; VResearch Institute of Single Crystals, Turnov

TITLE: Ferroelectric properties of solid solutions of triglycine sulfate and fluoberyllate crystals

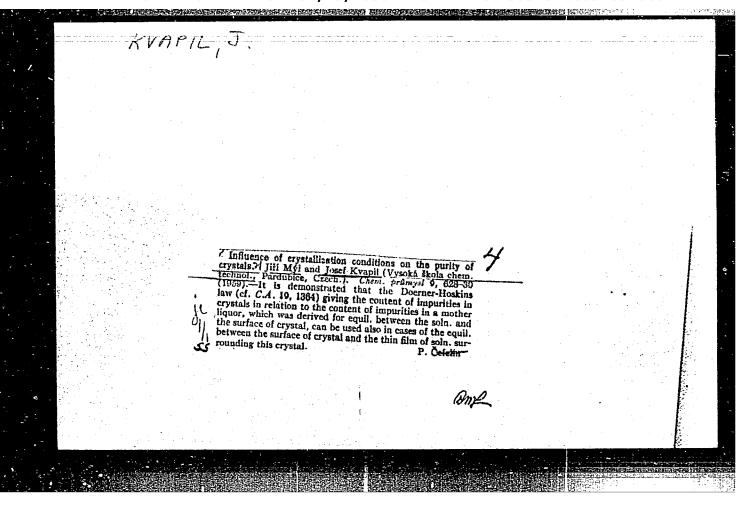
SOURCE: Physica status solidi, v. 15, no. 2, 1966, 451-456

TOPIC TAGS: ferroelectric property, ferroelectric crystal, Curie point

ABSTRACT: Solid solutions of ferroelectric TGS and TGFBe single crystals were prepared by the dynamic cooling of aqueous solutions. Various physical properties of the solid solutions were measured for different relative concentrations of the single crystals. It was found that the phase transition temperature is not a linear function of the concentration while the variations of the permittivity of solutions of all concentrations with temperature obey the Curie-Weiss law. It was also found that the coercive field of TGS-TGFBe solid solutions increases with increasing TGFBe content. The authors thank Mr. J. Novák for an appraisal of the analytical methods and Mr. K. Bernatzik for help in growing the single crystals. The authors also thank Dr. J. Fousek and Dr. Z. Hauptman for suggestions which helped to improve the manuscript,

Card 1/2

ĺ	ACC NR:	CC NR: AP6019268						
	and Dr. V. Janovec and Dr. V. Dvorák for valuable discussions. Orig. art. has figures, 3 formulas.				nas:			
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S/564/61/003/000/002/029 D258/D304

AUTHORS:

Shmid, Y., Kvapil, Y., Myl, Y., and Sholts, Z.

(Czechoslovak Socialist Republic)

TITLE:

The influence of supersaturation on the formation of

parasitic crystals

SOURCE:

Akademiya nauk SSSR. Institut kristallografii. Rost

kristallov, v. 3, 1981, 273-277

TEXT: This paper is the first of a series concerned with the factors influencing crystal growth, especially in chemical technological processes. The authors determined the lower limit of the metastable region for the supersaturated solutions of monoammonium phosphate (MAP), dipotassium (d)-tartrate (DPT), potassium alum, and Seignette's salt. This limit was set in a dynamic process by recording the solution temperature at which the first crystals were formed. The temperature of saturation was read at the time at which the neighborhood of the first formed crystal was optically homogeneous. The apparatus is shown in Fig. 1. A

Card 1/4 3

S/564/61/003/000/002/029 D258/D304

The influence of ...

powerful light source situated opposite the observing stereo-microscope emits parallel rays across the plexiglass container. Another light source, at 90° from the first one, illuminates a small section of the bottom and traps each crystal as it comes down. The microscope is simultaneously focused onto the illuminated part of the bottom and on part of the parallel rays. Salts of analytical grade were used and the results checked against those obtained with optically pure solutions. The latter were made by partly dissolving crystals with the aid of steam, draining the resulting solution, and then distilling water into the container in order to dissolve the remainder of the crystals. This final solution, saturated at 55°C, remained stable for 20 hours at 0°C. The lower limit of the metastable region was found to be a function of overheating. Lowered curves of temperature v. concentration resulted for increasingly higher overheating. These curves were approximately parallel with the curve of solubility for overheating periods of 1 hour. Thus, when overheating by 30°C, the temperature of crystallization of DPT was lowered by 10°C and that of MAP by 15°C; that of Seignette's salt was lowered by 18°C and that of potassium alum by 30°C. There are 6 figures and 9

Card 2/# 3

The influence of ...

S/564/61/003/000/002/029 D258/D304

references: 1 Soviet-bloc and 8 non-Soviet-bloc. The references to the English-language publications read as follows: R. P. Rastogi, J. Amer. Chem. Soc., 3129, 1952; B. S. Strikantan, J. Indian Chem. Soc., 29, 674, 1952; A. Seidell, Solubilities, I. N. Y., 1953, p. 101; Huai Ting Hsü, L. Warren, McCabe, Ind. Engng. Chem., 26, 1201, 1934.

ASSOCIATION:

Department of Physical Chemistry, Chemical Technological College, Pardubice; Institute of Mineral Research

Card 3/4

3/081/62/000/022/030/088 B158/B101

AUTHORS:

Šmid, Josef, Kvapil, Josef, Hnizdil, Jindřich

TITLE:

Method of preventing formation of parasitic crystals

PERIODICAL: Referativnyy zhumnal. Khimiya, no. 22, 1962, 292, abstract

22194 (Czechoslovak patent 98594; February 15, 1961)

TEXT: When single crystals are grown by existing methods, particularly in crystallizers operating at a high temperature under thermostatic conditions, parasitic crystals may form on the walls of the apparatus and on the surface of the mother liquor, lowering the product yield and hampering the process. This defect is eliminated by allowing an unsaturated layer to form on the surface of the mother liquor as a result of constant dripping of a solvent which condenses on the surface of a cooler in the upper part of the vapor space of a crystallizer. The tubes of the cooler are best arranged along the walls of the apparatus. [Abstracter's note: Complete translation.

Card 1/1

L 43580-65 EWT(1)/EWT(m)/EPF(c)/EWP(j)/T/EWP(t)/EEC(b)-2/EWP(b)/EWA(c) JD/GG/RM IJP(c) Pc-4/Pr-4/P1-4 Z/0000/62/000/000/0155/0157 ACCESSION NR: AT5009582 AUTHOR: Kvapil, J. (Kvapil, Y.); Solc, Z. (Sholts, Z.) TITLE: Growing single crystals of triglycine sulfate SOURCE: Konference o monokrystalech, 4th, Turnov, 1961. Sbornik referatov. Turnov, VUM, 1962, 155-157 TOPIC TAGS: triglycine sulfate crystal, crystal growth, single crystal ABSTRACT: After reviewing previous work on the composition of the triglycine sulfate solutions from which TGS crystals are grown, the present authors analyze the proportion of sulfuric acid to glycine in such solutions and find that this need not be exactly 1:3. They proved that TGS crystals grow in solutions varying in proportion from 1:2.5 to 1:3.5. They also studied the effect of heat on crystal growth and found that overheating stabilizes the saturation point, after which gradual cooling produces the first crystals at the lower boundary of the metastable zone. An electronic source of time impulses was used to establish the saturation point and to control the cooling rate. The many factors involved in crystal growth are described, including saturation temperature, overheating temperature and period, cooling rate, mechanical factors such as size and speed of mixing paddles, and the several types of diffusion in the solutions used. In growing TGS crystals, it is Card 1/2

L 43580-65 ACCESSION NR: AT5009	그 집에 하시다. 그 작사의 사회를 가득하셨다니다. 그래요요?		15분 : 11 : 11 : 11 : 11 : 11 : 11 : 11 :	2
best to employ core rods with pinacoidal areas on t employed had saturation p as they cooled under auto of declining temperature to rate of 0.2 cm in diame	points at 45-50C, which produce to produce t	produced crystals w crystallizers. Under crystals with a des	eighing 450 gran or precise schedu nsity of 1,68 grew	les les
ASSOCIATION: VUM, To	urnov; <u>VSCHT,</u> Pardubic			THE
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221 Card 2/2				

S/058/62/000/012/035/048 A062/A101

AUTHORS:

Myl, J., Kvapil, J.

TITLE:

Application of sound effects to determine crystal lattice changes

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 12, 1962, 2,

abstract 12E10 ("Collect, Czechoslow, Chem, Communs", 1962, 27, no. 5, 1099 - 1104, German; summary in Russian)

TEXT: It was found that processes, giving rise to sudden changes of the crystal lattice, are accompanied by sound effects which usually are below the audibility range. A simple arrangement was designed which permitted to record the appearance of such sounds while crystals were heated. Thus it is possible to determine the temperatures at which sudden transformations of crystalline modifications or sudden changes of thermal expansion, etc., take place.

[Abstracter's note: Complete translation]

Card 1/1

S/058/63/000/001/116/120 A062/A101

AUTHOR:

Mýl, J., Kvapil, J.

TITLE:

Application of acoustic methods for indicating crystal lattice changes. I. Study of the changes in chemical processes.

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 73, abstract 12h437 ("Collect. Czechosl. Chem. Communs", 1962, w27, no. 7, 1517 - 1520,

German; summary in Russian)

TEXT: To investigate chemical reactions of solid substances, use was made of the method of recording the acoustic effects that take place in heating of crystals, liberation of gases, dehydration processes of thermal decompositions, etc. The results are compared with the data of the differential thermal analysis.

[Abstracter's note: Complete translation]

Card 1/1

MYL, Jiri; SOLC, Zdenek; KVAPIL, Josef

Crystallization parameters of technically important salts. Sbor VSChT Pardubice no.1:89-96 '63.

1. Chair of Inorganic Technology, Higher School of Chemical Technology, Pardubice, and Research Institute of Minerals, Turnov.

L 23086-65 ACCESSION NR: AP4047665

2/0009/64/000/010/0507/0510

AUTHOR: Bibr, B.; Kvapil, J. (Kaapil, J.)

TITLE: Growing single crystals from solution by lowering temperature

SOURCE: Chemicky prumysl, 7nd. 10, 1964, 507-510

TOPIC TAGS: single crystal growth, saturated solution, crystal nucleus, crystallization center, growth rate, alum, rochelle salt, sodium nitrate

ABSTRACT: This article describes the principal factors affecting the growing of single crystals (principally ADP, DKT, EDT, TGS, TGFB, SHA, and MaNO3 crystals, Rochelle salts, and various alums) by lowering temperature, and reports on the study of the effect of preparing the solution before the growing cycle. A calculation method is described for the programmed lowering of temperature during the crystal growth cycle. The parameters directly affecting the width of the metastable zone are studied and their estimation is made from the point of view of the requirements of the technology of growing single crystals from solution. The present method for calculating the speed of temperature lowering during the growing cycle is described on this basis. Up to the present, temperature drop, which

Cord 1/3

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has the greatest influence on the economy of the process, was controlled on the basis of empirical observations made by the personnel and technicians growing the crystals. The effect of the presence of a nucleus on the width of the metastable zone of potassium tartrate DKT with and without mixing was investigated. Crystallization was carried out in laboratory crystal pans, the mixer with the rucleus rotated at a speed of 10 - 50 rpm, and the direction of rotation changed every 1 - 2 minutes of operation. The calculation of temperature lowering in growing Rochelle salt single crystals is given as a semple solution. The length of the growing cycle is decisive from the point of view of economy, in comparison with which the time required for preparation operations is negligible. For this reason it is necessary to ensure a solution of maximum concentration by maintaining the maximum temperature during heating. ceed near the upper limit of the metastable zone to ensure growth without defects. Maintaining a constant linear growth rate ensures minimum crystallization time. It is also necessary to maintain a precisely calculated temperature regime. As an example, the calculation of a nomogram of the temperature regime for the whole growth cycle is illustrated. Homograms are also given for ADP, TGS, Rochelle salts, and sodium nitrate, and the correctness of the nomograms

Card 2/3

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PHASE I BOOK EXPLOITATION

CZECH/2526

Kvapil, Ladislav; Bedřich Solný, Engineer; and Vlastimil Kalášek, Engineer

- Elektricke odporove pece (Electric Resistance Furnaces) Praha, Státní Nakledatelství Technicke Literatury, 1958. 235 p. (Series: Elektrotechnická minima, Sv. 26) 2,200 copies printed.
- Reviewer: Zdeněk Ryska, Doctor, Engineer, Docent; Resp. Ed.: Ludvík Kačerovský; Tech. Ed.: Libuše Hokrová; Managing Ed. for Literature on Electrical Engineering: František Kašpar, Doctor, Engineer.
- PURPOSE: The book is intended for workers, foremen, and economists concerned with electric furnaces. It should facilitate selection of the equipment adequate for any given plant.
- COVERAGE: The book briefly explains electrotechnical and thermal fundamentals. The types of electric resistance furnaces mass-produced in Czechoslovakia are described. Construction, servicing, maintenance, and repair of mechanized furnaces for

Card 1/3

Electric Resistance Furnaces

CZECH/2526

special purposes are described as are resistance furnaces with protective atmosphere and devices for producing the atmosphere. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Preface 1. Introduction. Basic electrotechnical concepts 2. Electrical heat 3. Use of electrical heat in industry 4. Materials used in building electric furnaces	5 8 28 43 51
 5. Calculation of heating systems and fabrication of individual parts 6. Processing metal in electric furnaces 7. Electric resistance furnaces 8. Electric resistance furnaces for special purposes 9. Temperature measurement 10. Melting fuses 11. Temperature control 12. Protective atmospheres 	78 103 115 141 154 179 181
Card 2/3	

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MIRESTAL KVAPIL, M

CZECHCSLOVAKTA/Analytic Chemistry - Analysis of Inorganic Substances.

E-2

Abs Jour

: Ref Zhur - Khimiya , No 14, 1958, 46425

Author

: Miroslav Kvapil

Inst Title

: Analysis of Calcites, Dolomites, Ankerites and Magnesi-

tes in Presence of Great Amounts of Manganese.

Orig Pub

: Rudy, 1957, 5, No 12, Prace vyzkumn. ustavu, 1957,

Priloha No 7, 4-6.

Abstract

: Determination methods of ash, SiO₂, R₂O₃ (Fe₂O₃), CaO and MgO in calcites, dolomites, ankerites and magnesites are described. Ash is determined by calcining the sample to be analysed 1 hour at 1000°, SiO₂ is determined by the usual method (after the decomposition of the sample with a mixture of HCl and HNO₃, filtering off the insoluble residue and removing SiO₂ in the form of H₂SiF₆ from the residue by treating it with HF),

Card 1/2

CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Inorganic Substances.

E-2

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46425

R₂O₃ is determined by the precipitation of hydroxides with hexamethylenetetramine (in the filtrate after the insoluble residue has been filtered off), Fe₂O₃ is determined by the Zimmermann - Reihardt method (in the R₂O₃ precipitate), the total of CaO + MgO is determined by chelatometric titration in the presence of eriochrome black T, CaO is determined by chelatometric titration in the presence of murexide, and MgO is determined by the difference. In the presence of less than 2% of Mn, it is masked with triethanolamine, and in the presence of more than 2% of Mn, it is separated by extraction with chloroform after an addition of cupral.

Card 2/2

19