TOPIC TAGS: parabolic quasi linear equation, parabolic equation n ...
... level scheme, two level scheme

ABSTRACT: High-accuracy finite-difference schemes ...
the equat...

$$\frac{\mu}{\partial x^2} = \zeta(t, \tau)\frac{du}{dt} + \ldots$$

in the rectangular domain $G(0 < t < T, 0 < x < L)$ with certain boundary and initial
conditions are constructed and analyzed. Certain auxiliary formulas are derived
... finite-difference equat...
...
three-...
scheme ...

Card 1/2

L 26314-65

ACCESSION NR: AP5005559   ①

of computation is analyzed. It is shown that when h and l = h^2/ℓ, where h and ℓ
are the dimensions of the mesh of a rectangular net satisfying certain condition
the process of computation converges and numerical solutions of the equation
with given ... ...
with ... ...
... ...
conditions are satisfied. The values of u(t, x) calculated by means of this scheme
are obtained with an error of the order of $O(h^4)$. It is asserted that the obtained
results can be extended with certain insignificant modifications to the case
of the equation

$$\frac{\partial^2 u}{\partial x^2} = A(t, x) \frac{\partial u}{\partial t} + B(t, x) \frac{\partial u}{\partial x} + C(t, x, u). \qquad (2)$$

Orig. art. has: 30 formulas.   [LK]

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tiflis State University)

SUBMITTED: 16Mar64   INCL: 00   SUB CODE: MA

NO REF SOV: 001   OTHER: 000   ATD PRESS: 3187

Card 2/2

L 51082-65   EWT(d)   Pg-4   WP(c)
ACCESSION NR: AP5011822   UR/0251/65/038/001/001/0002

AUTHOR: Gordaziani, D. G.

TITLE: Use of rhomboid grids for solving the heat equation

SOURCE: AN GruzSSR. Soobshcheniya, v. 38, no. 2, 1965, 15-22

TOPIC TAGS: finite difference, differential equation

ABSTRACT: Under the assumption of a sixth order smooth solution of

$$\Delta u = A(t)\frac{\partial u}{\partial t} + C(t, x, y) u, \quad \left(\Delta \equiv \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \right), \quad (1)$$

satisfying
$$\left. \begin{array}{l} u(o, x, y) = f(x, y), \quad (x, y) \in G, \\ u(t, x, y) = \varphi(t, x, y), \quad (x, y) \in \gamma, \quad 0 < t < T, \end{array} \right\} \quad (2)$$

for $0 < t \leq T$ where G is a region in the x,y plane, γ is the boundary contour of G, $A(t) \geq \alpha > 0$, $f(x,y)$ and $\varphi(t,x,y)$ are continuous and $f(x,y) = \varphi(0,x,y)$, $x,y \in \gamma$ and with A_t^1, $c_{x^4}^{(4)}$, $c_{y^4}^{(4)}$ continuous on $\bar{D} = \{(x,y) \in G, \ t \in [0,T]$,

Card 1/2

L 51042-63
ACCESSION NR: AP5011822

the author studies an explicit finite difference scheme of high accuracy using a rhomboid grid. He proves a theorem giving the rate of convergence of the solution of the difference scheme to that of the equation. Orig art has formulas.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: 24Jun64   ENCL: 00   SUB CODE: MA, TD

NO REF SOV: 003   OTHER: 000

Card 2/2

L 10115-66   EWT(d)   IJP(c)

ACC NR: AP6000731   SOURCE CODE: UR/0251/65/039/003/0535/0541

AUTHOR: Gordeziani, D. G.

ORG: Academy of Sciences, Georgian SSR, Tbilisi Mathematical Institute im. A. M. Razmadze (Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut)

TITLE: Use of a locally one-dimensional method for solving a multidimensional parabolic equation of order 2m

SOURCE: AN GruzSSR. Soobshcheniya, v. 39, no. 3, 1965, 535-541

TOPIC TAGS: differential equation, parabolic equation

ABSTRACT: The author shows the applicability of the locally one-dimensional method of A. A. Samarsky (Ob odnom ekonomichnom raznostnom metode resheniya mnogomernogo parabolicheskogo uravneniya v proizvol'noy oblasti. Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, 2, No. 5, 1962, 787-811) to the solution of

$$\frac{\partial u}{\partial t} = \sum_{a=1}^{p} L_a u, \qquad (1)$$

$$\left(u, \frac{\partial^2 u}{\partial y^2}, \ldots, \frac{\partial^{2(m-1)} u}{\partial y^{2(m-1)}}\right)\Big|_{R} = (0, 0, \ldots, 0) \qquad (2)$$

$$u(0, x) = f(x), \quad x \equiv (x_1, x_2, \ldots, x_p) \in \bar{G}. \qquad (3)$$

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ACC NR: AP6000731

He shows that under given conditions the difference problem

$$\theta L_{h_\alpha} U^{s+\alpha/p} + (1 - \theta) L_{h_\alpha} U^{s+(\alpha-1)/p} = \bar{U}_{I_\alpha} \quad (0 \leqslant \theta \leqslant 1)\tag{4}$$

$$\widetilde{\delta}_{x}^q U\Big|_{\substack{x_\alpha = 0 \\ x_\alpha = 1}} = 0 \quad (q = 0, 1, \ldots, m - 1; \ \alpha = 1, 2, \ldots, p), \ t \in \omega\tau\tag{5}$$

$$U(0, x) = f(x), \quad x \equiv (x^{(1)}, x^{(2)}, \ldots, x^{(p)}_{p_p}) \in \bar{\omega}_h\tag{6}$$

has a unique stable solution which converges in mean to the solution of (1) - (3). This paper was presented by Sh. Ye. Mikeladze on 15 March 1965. Orig. art. has: 14 formulas.

SUB CODE: 12/ SUBM DATE: 15Mar65/ ORIG REF: 004

Card 2/2

GORDEZIANI, Karlo Shalvovich; GORDEZIANI, Marlen Shalvovich;
    GAPRINDASHVILI, Iosif Silovanovich .

[Labeled atoms and their use in agriculture] [Mechenye
atomy i ikh primenenie v sel'skom khoziaistve. Tbilisi,
Sabchota Sakartvelo] 1965. 138 p. [In Georgian]
                                (MIRA 18:8)

GORDEZIANI, Karlo Shalvovich; GORDEZIANI, Marlen Shalvovich;
GAPRINDASHVILI, Iosif Silovanovich .

[Labeled atoms and their use in agriculture] [Mechenye
atomy i ikh.primenenie v sel'skom khoziaistve. Tbilisi,
Sabchota Sakartvelo] 1965. 138 p. [In Georgian]
(MIRA 18:8)

RUKHADZE, D.A., inzh.; GORDEZIANI, N.N., inzh.

Determining the optimum height of high-basicity sinter
burdens. Stal' 20 no. 12:1074 D '60.   (MIRA 13:12)
                    (Sintering)

MALYSHEV, S.I., inzh.; KHOSHTARIYA, Sh.F., inzh.; GLADKOSKOK, P.P., inzh.;
RADCHENKO, F.G., inzh.; Prinimali uchastiye: BOKOLISHVILI, Sh.S.;
RUKHADZE, R.I.; SHARASHIDZE, S.Sh.; BEREZHNOY, N.; GORDEZIANI, N.N.;
RUKHADZE, D.A.; TATARADZE, Z.

Mastering the sintering of Dashkesan ores as acceptable charge for
open-hearth furnaces. Stal' 20 no. 7:584-590 Jl '60. (MIRA 14:5)

1. Zakavkazskiy metallurgicheskiy zavod.
       (Dashkesan—Iron ores)   (Sintering)
   (Open-hearth furnaces—Equipment and supplies)

RUKHADZE, D.A., inzh.; GORDEZIANI, N.N., inzh.

Blast furnace operations on natural gas. Stal' 20 no. 12:1074
D '60.   (MIRA 13:12)
        (Blast furnaces--Equipment and supplies)

KASHAKASHVILI, N.V.; GLADKOSKOK, P.P.; KHOSHTARIYA, Sh.F.; MINDELI, M.Sh.
     Prinimali uchastiye: PARASTASHVILI, V.V.; KOBERIDZE, V.G.;
     CHKHEIDZE, Z.A.; RUKHADZE, E.A.; KENKEBASHVILI, O.A.; SHARASHIDZE,
     S. Sh.; GOGISHVILI, A.G.; MELKADZE, N.V.; DZAMASHVILI, A.V.;
     GORDEZIANI, N.N.; ABRAMISHVILI, R.N.

     Performance of Transcaucasia Metallurgical Plant blast fur-
     naces operating on natural gas. Trudy GPI [Gruz.] no.4:11-23
     '62   (MIRA 17:8)

KASHAKASHVILI, N.V.; SHARADZENIDZE, S.A.; MALYSHEV, S.I.; CHKHEIDZE, Z.A.
GIBRADZE, Sh.S.; KHOSHTARIYA, Sh.F.; RUKHADZE, D.A.; SHARASHIDZE,
S. Sh. Prinimali uchastiya: SHENGELAYA,V.; OKROMCHEDLISHVILI,
Sh.; POPIASHVILI, Sh.; LOLUA,K.; MINDELI, M.; TSKHELISHVILI, D.;
GORDEZIANI, N.; ODIKADZE, Ch.; TATARADZE, Z.; KHUTSISHVILI, A.

Production and use of highly basic, open-hearth furnace sinters
from Dashkesan iron ore. Trudy GPI [Gruz.] no.4:25-32 '62
(MIRA 17:8)

RUKHADZE, D.A., inzh.; GORDEZIANI, N.N., inzh.

Sintering high-basicity mixtures at the Rustavi metallurgical plant.
Stal' 23 no.6:499 Je '63. (MIRA 16:10)

1. Rustavskiy metallurgicheskiy zavod.

USSR / Human and Animal Physiology. Heart.   T

Abs Jour   : Ref Zhur - Biol., No 15, 1958, No. 70156

Author   : Gordeziani, Sh. G.
Inst   : Tbilisi Medical Institute
Title   : Collaterals and Collateral Circulation in the Heart in
              Experimental Omentocardiopexy

Orig Pub   : Tr. Kafedry operativn. khirurgii i topogr. anatomii.
              Tbilissk. med. in-t, 1956, Vol 1, 181-187

Abstract   : In 14 dogs a ligature was applied to the descending branch
              of the left coronary artery, and the omentum was satured
              to the myocardium. In ten days, three months, and six
              months, corrosion preparations were made. By six months
              after operation, vascular anastomoses between the myocardium
              and the omentum could be seen.

Card 1/1

54

MAYZIL', F.

"Material on surgical treatment of coronary insufficiency" by
Sh.G. Gordeziani. Reviewed by F. Maizil'. Khirurgiia 34 no.6:143
Je '58   (MIRA 11:8)
        (CORONARY VESSELS--SURGERY)
        (GORDEZIANI, Sh.G.)

GORDI, U.

33915. Mikrovolnovaya Spyektroskopiya(Pyer. S Angl.) Uspyekhi Fiz. Nauk, T, XXXIX, VYP. 2, 1949, C.201-98. --Bibliogr: C. 293-98.

SO: Letopis' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.

GORPIAN, N. M.

USSR/Microbiology - Antibiosis and Symbiosis. Antibiotics.   F-2

Abs Jour   :   Ref Zhur - Biologiya, No 7, 1957, 26291

Author   :   Margolina, M.I., Gordian, N.M., Kamraz, M.I.
Inst   :   Kharkov Institute of Vaccines and Serums
Title   :   Experimental Study of the Effect of Garlic Phytoncides
               on Dysenteric Bacteria.

Orig Pub   :   Khar'kovsk. n.-i. in-ta vaktsin i syvorotok, 1955, 22,
               75-79

Abst   :   All 123 of the dysentery bacteria cultures were found
               to be sensitive to garlic phytoncides (I). Culture
               growth in bouillon was arrested by garlic juice when
               diluted to 1: 400 - 1: 80. The greatest sensitivity to
               I was evidenced by the Grigoryev-Shig dysenteria bacil-
               lus. No difference was noted in the sensitivities of
               freshly cultured and museum strains. Culture in a me-
               dium containing I did not increase the resistance of the
               cultures. Continued cultivation in media containing I

Card 1/2

USSR/Microbiology - Antibiosis and Symbiosis. Antibiotics.   F-2

Abs Jour   : Ref Zhur - Biologiya, No 7, 1957, 26291

brought about modifications in the morphological proper-
ties of dysenteric cultures (large numbers of long fila-
mentous and coccus-type forms appeared, R-colonies predo-
minated), but biochemical properties and agglutinability
remained the same. I is not toxic for white mice.
Over one month, the activity of I decreased by 2, and by
4 to 10 times in three months.

Card 2/2

GORDIC, Z.

"Local roads in Serbia."

p. 15 (Put I Saobracaj) No. 7, July 1957
Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
     April 1958

GORDIKOV, A.V.; ROSSOMAKHIN, M.V.

Transverse gradients of the water surface of an inundated
flood plain (exemplified by the Irtysh River). Trudy GGI
no.88:109-124 '61.   (MIRA 15:2)
            (Irtysh River—Hydrology)

ANDREYEV, S.G.; GORDIKOV, N.V.; RUMYANTSEV, A.T., red.; KOREYSHO,
Ye.G., red.; DEYEVA, V.M., tekhn.red.

[Local fertilizers; advanced practices in their acquisition
and usage] Mestnye udobreniia; peredovoi opyt nakopleniia
i primeneniia. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960.
206 p.   (MIRA 14:2)
            (Fertilizers and manures)

BUZENKOV, G.M.; GORDIKOV, N.V.; ANDREYEV, S.G.; KOREYSHO, Ye.G., red.;
GOR'KOVA, Z.D., tekhn. red.

[Corn in new regions; advanced cultivation practices] Kukuruza v
novykh raionakh; peredovoi opyt vozdelyvaniia. Moskva, Gos. izd-
vo sel'khoz. lit-ry, 1960. 136 p.   (MIRA 14:6)
                        (Corn (Maize))

ANDREYEV, S.V., prof.; KRAVCHENKO, A.T., prof.; NAUMENKO, V.G., kand. med. nauk;
Prinimali uchastiye: GORDILOVA, V.V., prof.; YESIPOVA, 1.K., prof.;
SMOL'YANINOV, V.M., prof.; SOKOLOV, M.I., prof.

Dissertations on pathological and microbiological problems; current
state and future prospects. Sov. med. 27 no.6:147-151 Je '64.
(MIRA 18:1)

GORDIN, A.M.

AID P - 3002

Subject   : USSR/Electricity

Card 1/1   Pub. 29 - 17/28

Authors   : Tarakanova, Ye. N., I. I. Ryabushkin, and A. M. Gordin,
                Engs.

Title   : Movable installations of power capacitors

Periodical   : Energetik, 6, 26-27, Je 1955

Abstract   : A major work was done at the establishments of the
                Karaganda Coal Combine in order to raise the power
                factor. The basic measure consisted in introducing
                synchronous motors in ventilating and compressor
                installations and also synchronous convertors and
                static capacitors at the central substations of the
                combine. The author describes the details of these
                installations. Three diagrams, one table.

Institution : None

Submitted   : No date

GORDIN, A.Yu.; MILL', L.A.

Industrial training shops. Politekh.obuch. no.5:11-17 My '59.
(MIRA 12:7)

1. Srednyaya shkola No.544 g.Moskvy.
(Moscow--Manual training)

GORDIN, B.I.

Scientific and technical conference on the manufacture of high-voltage
apparatus. Elektrotekhnika 35 no.4:64 Ap '64.   (MIRA 17:4)

1961/3

GORDIN, B.L.

DECEASED
c 1959

SEE ILC

HYGIENE AND SANITATION

GORDIN, B.S., inzhener.
Manufacture of wall brick from power plant slag. Biul.stroi.tekh. 10 no.12:
13-14 Jl '53.
(MLRA 6:8)
(Bricks) (Slag)

GORDIN, E.I.

The Beslan corn combine. Uch. sap. Ped. inst. Gerts. 169:193-199
'59.   (MIRA 14:1)

(Beslan--Food industry)

GORDIN, G.A.

Berlyand, A.S. and Gordin, G.A.   "On a method of determining the speed of blood circulation",
Vracheb. delo, 1949, No. 1, paragraphs 33-36.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

SORKINA, A.I.; GORDIN, G.B.

Late results of operative treatment of a serious form of
hyperparathyroid osteodystrophy with calcareous metastases.
Probl. endok. i gorm. 11 no.1:58-60   Ja-F '65.

(MIRA 18:5'

1. Kafedra obshchey khirurgii (zav. - prof. A.I. Sorkina)
Irkutskogo meditsinskogo instituta na baze gorodskoy kli-
nicheskoy bol'nitsy (glavnyy vrach A.F. Demidova).

FILIPPOV, N.A.; GORDIN, I.M., inzhener, redaktor.

[Bricklaying by a 4-man team] Kirpichnaia kladka zvenom-chetverkoi.
Leningrad, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 41 p.
(MLRA 7:6)

(Bricklaying)

GORDIN, Iosif Mikhaylovich; VODAKOV, A.A., inzhener, nauchnyy redaktor;
KAPLAN, M.Ya., redaktor; FUL'KIN, Ye.A., tekhnicheskiy redaktor.

[Extensible panel scaffolding for bricklaying] Panel'nye razdvizh-
nye podmosti dlia kirpichnoi kladki. Leningrad, Gos. izd-vo lit-ry
po stroitel'stvu i arkhitekture, 1954. 46 p.   (MLRA 8:1)
    (Bricklaying) (Scaffolding)

ZHELTIKOV, V.F.; GORDIN, I.M.; SPIVAKOV, M.S.; ALEKSEYEV, N.P.; VODAKOV, A.A.

Adjustable scaffolding for bricklaying. Rats. i izobr. predl. v stroi. no.91:7-9 '54. (MLRA 8:8)

1. Trest Lehmekhmontashstroy ispolkoma Lengorsoveta.
   (Bricklaying) (Scaffolding)

Gordin, I.M.

BESPALOV, Ivan Vasil'yevich, ~~GORDIN, I.M.~~, inzhener, nauchnyy redaktor;
KAPLAN, M.Ya., redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskiy
redaktor

[Assembling precast concrete elements; for work superintendents and
foremen] Montazh sbornogo zhelezobetona dlia proizvoditelei rabot i
masterov. Leningrad, Gos.izd-vo lit-ry po stroit. i arkhit., 1957.
131 p.   (MLRA 10:9)
        (Precast concrete construction)

GORDIN, I.M.; MURATKHAN, V.P.; PANOV, V.K.; KRAVTSOV, G.Ya., red.;
    PARAKHINA, N.L., tekhn. red.; PROKOF'YEVA, L.N., tekhn.red.

[Organization and performance of land improvement construc-
tion work] Organizatsiia i proizvodstvo meliorativno-
stroitel'nykh rabot. Moskva, Sel'khozizdat, 1963. 327 p.
                                        (MIRA 17:3)

GORDIN, L.Yu.; KOROTOV, V.M.

"Tales of the life of the brain." Z.Kosenko, A. Remezova. Reviewed
by L.IU. Gordin, V.M. Korotov. Est. v shkole no.3:86-89 My-Je '54.
(MIRA 7:7)

1. Uchitel' shkoly no.700 g. Moskvy (for Gordin) 2. Uchitel'
shkoly no.200 g. Moskvy (for Korotov)
(Kosenko,Z.) (Remezova, A.) (Brain)

GORDIN, M.D.; BORISOVICH, G.F.

Tasks of the synthetic rubber industry in the sixth five-year
plan. Khim. nauka i prom. 2 no.3:274-279 '57.   (MLRA 10:8)
(Rubber industry)

GORDIN, M.D.

64 - 7 - 2/12

AUTHORS: Gordin, M. D., Borisovich, G. F.

TITLE: The Industry of Synthetic Rubber (Caoutchouc) - on the Occasion of the 40th Anniversary of the Soviet Republic (Promyshlennost' sinteticheskogo kauchuka k 40-letiyu Sovetskogo gosudarstva).

PERIODICAL: Khimicheskaya Promyshlennost', 1957, Nr 7, pp.(392)8 - (396)12 (USSR)

ABSTRACT: As early as in the years around 1920, Soviet scientific experts succeeded in producing synthetic rubber caoutchouc) from "butadien" (obtained from ethyl alcohol by means of a one-stage catalysis) which was subsequently subjected to polymerization under the influence of metallic sodium. In Spring 1931 the Soviets began with the construction of the first factories in Yaroslavl', Voronezh and Yefromovo and on July 4, 1932, the first 400 kg of synthetic Sovjet rubber were obtained. Large scale production in other countries was carried out much later only: In Germany, in 1937, in the United States only in 1942. A survey of the further development up to the present is given. The projects for the period

CARD 1/3

The Industry of Synthetic Rubber (caoutchouc) - on the   64 - 7 - 2/12
Occasion of the 40th Anniversary of the Soviet Republic

of 1951 to 1955 could not be accomplished for lack of
both material and workmen. But the Sovjets want to make
up for this, now. The assortment of synthetic rubber
has become very rich: SKB-sodium- butadiene caouchouc,
DAB-butadiene-latex DVKhB-70- butadiene-Vinyliden-
chloride-Latex, butadiene-nitril-caoutchouc SKN of three
different makes, polyisobutylene, some makes of Nairit,
SKBM, chloroprene-latex, butadiene-styrol-caoutchouc
SKS 30, and many others. The butadiene-methyl-
styrol-caoutchouc (SKMS 30) is produced on an industrial
basis in the Soviet-Union only. It is used on a large
scale for the manufacture of tires. Further the oil-
filled caoutchouc SKS-30 AM is produced, the
technological properties of which by far surpass the
"Butadien"-Styrol-caoutchouc. In 1956 the production
of Silicon-caoutchouc (SKT) was substantially increased.
It retains its properties at a temperature of - 60 to -
250° C. It is water, -acid- and oil-resistant and is

CARD 2/3

The Industry of Synthetic Rubber (caoutchouc) - on the   64 - 7 - 2/12
Occasion of the 40th Anniversary of the Soviet Republic

        proof against ultra-violet radiation. In the second
        half of 1956 the production of brombutyl-caoutchouc (for
        the insulating layer in solid tires) was begun.

AVAILABLE: Library of Congress

CARD 3/3

GORDIN, M.M., inzh.

Puller tool for the driving wheel of the S-80 and S-100 tractors.
Mekh.stroi. 19 no.3:26 Mr '62.   (MIRA 15:3)
                         (Tractors)

SHPINDLER, D.L.; GORDIN, M.N.

Effect of cholagogues on the milk and butterfat yield of cows. Uch. zap. Kazakh. un. 41:186-187 '61.   (MIRA 16:6)
(CHOLAGOGUES) (DAIRY CATTLE-—FEEDING AND FEEDS)

GORDIN, M.N.; KARIMOVA, R.F.

Hypotensive and some other properties of the herbage of the
periwinkle Vinca minor. Vest. AN Kazakh. SSR. 19 no.5:91-95
My '63.   (MIRA 17:7)

Gordin, M. N.

MD

The effect of darminol on the cardiovascular system.
M. N. Gordin. Nauch. Isvrs. Kazakh. Med. Inst. 1953,
No. 11, 141-9; Referat. Zhur. Khim., Biol. Khim. 1955, No.
2082.
                                              B. S. Levine

GORDIN, M.N.

Local anesthetic and other pharmacological properties of the stereoisomers of 2,5-dimethyl-4-piperidyl benzoate. M. N. Gordin and G. I. Samarina (V. M. Molotov Kazakh State Med. Inst., Alma-Ata). Izvest. Akad. Nauk Kazakh. S.S.R. No. 136, Ser. Fiziol. i Med. No. 4, 97-104(1954)(in Russian).—The 3 forms of 2,5-dimethyl-4-piperidyl benzoate (m. 205-6°, 187-8°, and 253-4°) were investigated. All 3 forms cause local anesthesia after application to a rabbit eye or skin of a frog; terminal anesthesia is best shown by the 3rd form (called C or γ). Aq. solns. cause anesthesia by infiltration. The order of toxicity rises from A to B to C (α, β, γ). Subcutaneous administration causes lowering of blood pressure; all 3 forms cause considerable contraction of peripheral blood vessels of the hind legs of a frog when used in soln. of 1:1000 diln.; all lower the tone of smooth muscle and produce transient paralysis of isolated rabbit intestine. None is suitable for clinical infiltration owing to toxicity.   G. M. Kosolapoff

GORDIN, M.N.

Mechanism of the reaction of peripheral blood vessels to
strophanthin. Farm. i toks. 18 no.6:44-47 N-D '55.   (MLRA 9:3)

1. Kafedra farmakologii (zav.-prof. I.I. Sivertsev) Kazakhskogo
gosudarstvennogo meditsinskogo instituta imeni V.M. Mosotova.
        (STROPHANTHIN, effects,
            on blood vessels of amputated extremity with neural
            connection with body, conditioned reflex mechanism of
            action)
        (BLOOD VESSELS, effect of drugs on,
            strophanthin, in amputated extremity with neural connections
            with body, conditioned reflex mechanism of action)
        (REFLEX, CONDITIONED,
            conditioned reactions of blood vessels to strophanthin in
            amputated extremity with neural connections with body)

GORDIN, M.N.; TURGANBAYEV, A.T.

The effect of santonin on intestinal contraction [with summary in English]. Farm. i toks. 21 no.1:71-73 Ja-F '58.   (MIRA 11:4)

1. Kafedra farmakologii (zav.-prof. I.I. Sivertsev) Kazakhskogo gosudarstvennogo meditsinskogo instituta i rentgenovskiy kabinet Instituta klinicheskoy i eksperimental'noy khirurgii AN Kazakhskoy SSR.
          (ANTHELMINTICS, effects
              santonin on intestinal motility & contractions in cats (Rus)
          (INTESTINES, physiology
              motility & contractions, eff. of santonin on cats (Rus)

GORDIN, M.N., kand.med.nauk

Change in body reaction to the influence of local anesthetics during various periods in radiation sickness. Zdrav. Kazakh. 21 no.1:65-69 '61.   (MIRA 14:3)

1. Iz kafedr farmakologii, (zav. - professor I.I.Sivertsev [deceased]) rentgenologii i radiologii (zav. - doktor meditsinskikh nauk S.B. Balmukhanov) Kazakhskogo meditsinskogo instituta.
                (LOCAL ANESTHESIA)   (RADIATION SICKNESS)
                        (BODY TEMPERATURE)

GOVOROV, A.A.; KOSHKIN, V.A.; GORDIN, O.V.; TUZOVSKIY, A.I.; SAKHAROVA, N.A.;
LYMAR', A.I.

Effect of the temperature of the end of rolling on the mechanical
properties of rail steel. Izv. vys. ucheb. zav.; chern. met.
6 no.8:137-140 '63.   (MIRA 16:11)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy
metallurgicheskiy kombinat.

GRDINA, Yu.V.; KOSHKIN, V.A.; GORDIN, O.V.; SAKHAROVA, N.A.

Inoculation of rail steel. Izv. vys. ucheb. zav.; chern. met.
6 no.10:129-133 '63.   (MIRA 16:12)

1. Sibirskiy metallurgicheskiy institut.

GRDINA, Yu.V.; GORDIN, O.V.

Characteristics of the mechanism of inoculating rail steel.
Izv. vys. ucheb. zav.; chern. met. 6 no.12:152-157 '63.
(MIRA 17:1)

1. Sibirskiy metallurgicheskiy institut.

GRDINA, Yu.V.; GORDIN, O.V.

Dependence of impact toughness in rail steel on the finishing
temperature. Izv.vys.ucheb.zav.; chern.met. 8 no.8:114-117 '65.

(MIRA 18:8)

1. Sibirskiy metallurgicheskiy institut.

L 2128-66   EWT(m)/ETC(f)/EPF(n)-2/EWG(m)/T/EWP(t)/EWP(k)   IJP(c)   JD/HW/JG/WB

ACC NR: AP6007928   SOURCE CODE: UR/0148/66/000/002/0119/0121

AUTHOR: Grdina, Yu. V.; Tarasko, D. I.; Dadochkin, N. V.; Gordin, O. V.

ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut)

TITLE: Rapid oxidation-free heating of metals for rolling

SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1966, 119-121

TOPIC TAGS: steel, refractory metal, molybdenum, tungsten, niobium, steel heating, refractory metal heating, oxidation free heating, metal oxidation, oxidation prevention / 60S2 steel, 45G steel, steel 5

ABSTRACT: In a search for an effective and inexpensive method of heating steels and refractory metals for forging, rolling, and extrusion, molten glass has been tested as a heating medium. Specimens of steels 60S2, 45G, St5, and molybdenum, tungsten, and niobium were heated up to 1100—1350C in molten glass (71.88% SiO_2, 1.11% Al_2O_3, 1.5% Fe_2O_3, 7.32% CaO, 2.27% MgO, 14.15% $K_2O + Na_2O$) for 5 min to 3 hr. No sign of oxidation was observed on any specimen. On the other hand, 60S2 steel conventionally heated to 1150C was extensively oxidized after holding 20 min. This type of steel, badly affected by decarbonization in conventional heating, showed no sign of decarbonization when

Card 1/2   UDC: 669.046—947

GORDIN, P.V., inzh.

Studying the tension of the basic parts of the D-170 diesel engine. Trakt. i sel'khozmash. no.11:4-6 N '65.   (MIRA 18:12)

1. TSentral'nyy nauchno-issledovatel'skiy dizel'nyy institut.

GORDIN TS G

GORDIN, TS.G., inzh.

Lowering the cost of constructing industrial buildings by modifying the crane system. Biul. stroi. tekh. 14 no.12:16 D '57. (MIRA 11:1)

1. Leningradskoye otdeleniye Gosudarstvennogo proyektnogo instituta Proyektstal'konstruktsiya.
(Building--Costs)   (Cranes, derricks, etc.)

LEMLEKH, Izrail Moiseyevich; GORDIN, Veniamin Avseyevich; VAGIN, A.A.,
red.; ATTOPOVICH, M.K., tekhn. red.[deceased]

[High temperature preheating of air in ferrous metallurgy]Vy-
sokotemperaturnyi nagrev vozdukha v chernoi metallurgii. Mo-
skva, Metallurgizdat, 1963. 352 p.   (MIRA 16:3)
          (Air preheaters)
          (Metallurgical furnaces)

GORDIN, V.A.

Standardization bureau at the Rybinsk Road-Machinery Plant.
Standartizatsiia 27 no.12:40-41 D '63.   (MIRA 17:4)

S/137/61/000/001/013/043
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No. 1, p. 23,
1D198

AUTHOR: Gordin, V.B.

TITLE: Problems of Calculating a Hydraulic Forging Press With Multiplica-
               tor and Pump-Accumulator Drives

PERIODICAL: V. sb. "Osnovn. vopr. razvitiya kuznechno-shtamp. proiz-va", Moscow,
               1958, pp. 553 - 575

TEXT: The operational stroke, the back stroke and the filling stroke are
calculated for accumulator and multiplicator drives. It is shown that the speed
of the operational stroke depends, basically, on the dimensions of the pressure
pipeline, the moving masses and the law of changes in the resistance of the forg-
ing. To maintain a constant vapor pressure, the dimensions of the vapor inlet
valve have to be increased. It is recommended to use a pneumatic pistonless ac-
cumulator in presses intended to be used for processes with falling technological
resistance. The hoisting force depends on the hoisting rate, pressure in the

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S/137/61/000/001/013/043
A006/A001

Problems of Calculating a Hydraulic Forging Press With Multiplicator and Pump-Ac-
cumulator Drives

filling tank and the dimensions of the reverse pipe. The given coefficient of
resistance of the reverse pipe is determined from the given hoisting speed. The
pipe is calculated from the found coefficient. The speed of the idle stroke is
determined from the dimensions of the filling pipe and the pressure in the filling
tank. For vertical presses the pressure in the filling tank should be used equal
to 4.5 kg/cm^2.

Ye. M.

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

Card 2/2

PHASE I BOOK EXPLOITATION

Gordin, Vul'f Borisovich, Candidate of Technical Sciences

Teoreticheskiye osnovy gidravlicheskogo rascheta kovochnykh pressov (Theoretical Principles of Designing Hydraulic Forging Presses) Moscow, Mashgiz, 1960. 83 p. Errata slip inserted. 3,000 copies printed.

Reviewers: I. M. Din, Engineer, and E. I. Goloskov; Ed.: V. A. Mikheyev, Engineer; Managing Ed. for Literature on Machine-Building Technology (Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer; Ed. of Publishing House: M. A. Chfas; Tech. Ed.: O. V. Speranskaya.

PURPOSE: This book is intended for design engineers of hydraulic presses and mechanical engineers in hydraulic-press shops and may be useful to students of mechanical engineering in schools of higher education.

COVERAGE: The book contains an analysis of the working cycle of a hydraulic forging press and calculation formulas for determining the dimensions of the working parts of the press and the drive.

Card 1/3

Theoretical Principles (Cont.)

The calculation formulas presented in the book show the influence of separate parameters of the press unit on its performance. The formulas also make it possible to select a suitable press arrangement, to determine the pressure of the hydraulic fluid and the steam pressure for steam-hydraulic presses, and can be used as an aid for making judgments as to the merits of various designs. No personalities are mentioned. There are 26 references, all Soviet.

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GORDIN, V.B.

PHASE I BOOK EXPLOITATION   SOV/5658

Ivanov, Aleksandr Petrovich, Candidate of Technical Sciences, and
Viktor Dmitriyevich Lisitsyn, Candidate of Technical Sciences,
eds.

Modernizatsiya kuznechno-shtampovochnogo oborudovaniya (Moderni-
zation of Die-Forging Equipment) Moscow, Mashgiz, 1961. 226 p.
Errata slip inserted. 10,000 copies printed.

Reviewer: V. Ye. Nedorezov, Candidate of Technical Sciences; Ed.
of Publishing House: T. L. Leykina; Tech. Ed.: A. A. Bardina;
Managing Ed. for Literature on Machine-Building Technology
(Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for foremen, machinists, designers,
and process engineers concerned with the modernization and de-
signing of die-forging equipment. It may also be used by students
at schools of higher education.

COVERAGE: The book contains material presented at the Conference

Card 1/8

Modernization of Die-Forging Equipment   SOV/5658

on Problems in the Modernization and Operation of Die-Forging
Equipment, held in November 1958 in Leningrad. The Conference
was called by Leningradskiy Sovet narodnogo khozyaystva, Sektsiya
obrabotki metallov davleniyem Leningradskogo oblastnogo pravleniya
NTO Mashprom (Leningrad Council of the National Economy, Section
of Metal Pressworking at the Leningrad Oblast Board of the Sci-
entific and Technical Society of the Machine Industry) and Len-
ingradskiy mekhanicheskiy institut (Leningrad Mechanical Engi-
neering Institute). Actual problems in the modernization, oper-
ation, and repair of die-forging equipment are described. Ana-
lyses are provided for problems involved in the mechanization and
automation of die-forging and stamping operations. Also in-
cluded are practical data to be used in the modernization of equip-
ment. No personalities are mentioned. There are 59 references:
56 Soviet, 2 German, and 1 English.

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Modernization of Die-Forging Equipment

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Modernization of Die-Forging Equipment

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Modernization of Die-Forging Equipment

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SOV/5658

Modernization of Die-Forging Equipment

3. Methods and means for the experimental investigation of
   die-forging equipment (V. I. Zaytsev and M. P. Pavlov,   203
   Candidates of Technical Sciences)   223

Bibliography

AVAILABLE: Library of Congress   VK/wrc/ec
                                                             11-7-61

Card 8/8

ACC NR: AT7003268   (N)   SOURCE CODE: UR/2563/66/000/263/0079/0088

AUTHORS: Gordin, V. B.; Yefimov, I. A.

ORG: none

TITLE: Determining the parameters of apparatus for finish rolling of blades

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 263, 1966. Mashiny i tekhnologiya obrabotki metallov davleniyem (Machinery and technology of metalworking by pressure), 79-88

TOPIC TAGS: cold rolling, turbine blade, rolling mill, metal forming press, steel alloy, metal deformation hardness, steel/ EI765 steel, 20 steel, U10A steel, 2Kh13 steel

ABSTRACT: Determination of the parameters of a cold-rolling mill for turbine blades of 90 x 500 mm of EI765 steel (see Fig. 1) is discussed. The specific flow pressure and maximum allowable deformation were determined with specimens of EI765 steel with a width of 16 mm and thicknesses of 3, 4, 7, 9, 11, and 14 mm. The hardness was HRC 26, and the surface roughness was $\nabla 7$. The blocks were made of U10A steel heat-treated to HRC 62. The degree of deformation at which failure of the specimens occurred increased with a decrease in thickness. The allowable degree of deformation was found to be 8.5% (see Fig. 2). Specimens of 20 and 2Kh13 steel were also used in determining the torque required for blade twisting. A formula is given for determining the
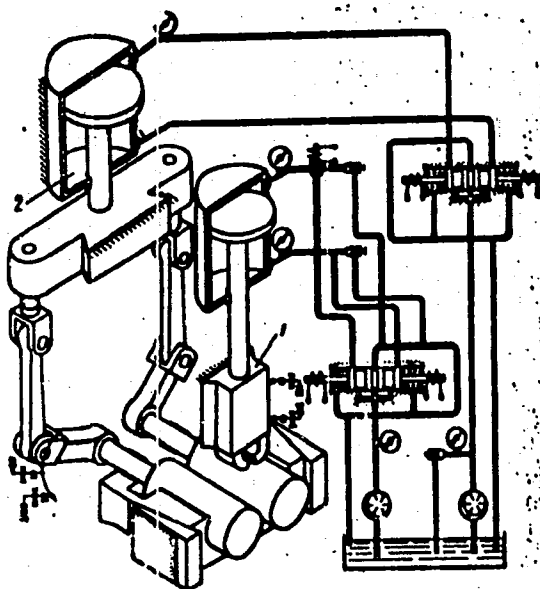
Card 1/3

ACC NR: AT7003268

Fig. 1. Kinematic diagram of cold-
rolling mill for turbine blades
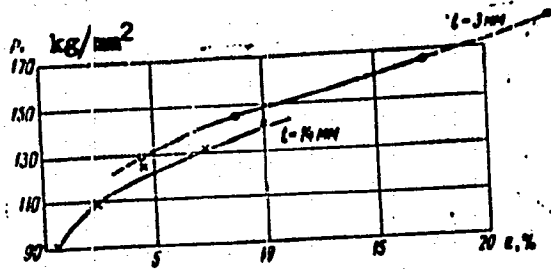
Card   2/3

ACC NR: AT7003268

Fig. 2. Specific flow pressure p versus degree of deformation ε for specimens of various thicknesses

clamping force. The force required with the described rolling mill is lower by a factor of 28 than that required with mechanical presses. Docent A. P. Atroshenko and engineer Yu. I. Yegorov participated in the experimental work. Orig. art. has: 6 graphs, 2 diagrams, and 12 formulas.

SUB CODE: 13/ SUBM DATE: none/ OTH REF: 001
10/

Card 3/3

AUTHORS: Ugay, Ya. A., Gordin, V. L.

TITLE: Production and investigation of some of the properties of Hg_3Sb_2

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 3, 1962, 703 - 705

TEXT: Hg_3Sb_2, which is a chemical analogy to the metallides Zn_3Sb_2 and Cd_3Sb_2, could not be produced directly from its elements by S. A. Vekshinskiy's method (Novyy metod metallograficheskogo issledovaniya splavov (New method for the metallographical study of alloys), GONTI, 1944). Stibine, obtained by the action of hydrochloric acid solution of $SbCl_3$ on Mg metal, was passed through a mixture of $HgCl_2$ with sugar. A tall molybdenum glass column 3 cm in diameter was filled up to 2/3 with Mg metal type Мг-1 (Mg-1). $CaCl_2$ on a porous diaphragm at the top of the column was ice cooled from outside. A No. 1 Schott funnel inserted in the column contained twice recrystallized $HgCl_2$ mixed with sugar. The hydro-

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S/078/62/007/003/019/019
B110/B138

Production and investigation...

chloric acid solution of $SbCl_3$, introduced into the lower end of the column produced: $SbCl_3 + 3HCl + 3Mg = 3MgCl_2 + SbH_3\uparrow$. SbH_3 was dried with $CaCl_2$ and reacted as follows: $3HgCl_2 + 2SbH_3 = Hg_3Sb_2 + 6HCl\uparrow$. The reaction took 2 - 3 hrs. The specific gravity of the powdery heavy gray Hg_3Sb_2, determined pyknometrically, was 6.0 g/cm^3. When heated in air Hg_3Sb_2 decomposes to mercury and antimony oxides around 400°C, and if heated in vacuum, into its elements at above 450°C. It is practically insoluble in water, alkali, and hydrochloric acid, partly soluble in concentrated HNO_3, and highly soluble in boiling H_2SO_4 and aqua regia. When left in air it moistens after 2-3 weeks and Hg drops separate. Its electrical resistivity, by the compensation method and a ПП-1 (PPTV-1) potentiometer measured on a tablet pressed from the powder (250 kg/cm^2), was 10^{12} ohms·cm. In cast Hg_3Sb_2 at room temperature conductivity is $\sim 10^{-11}$ ohm^{-1}·cm^{-1}. The sign of the thermo-e.m.f. points to hole conductivity. The logarithmic temperature dependence, log σ = $f(10^3/T)$, of specific conductivity at $7\cdot10^{-3}$ mm Hg shows that dissociation begins at

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Production and investigation... S/078/62/007/003/019/019
B110/B138

$370^{\circ}C$ (3.8 ± 0.2 ev). As the valence and conduction bands are far apart, Hg_3Sb_2 is close to the dielectrics. Good absorption properties prove the nonmetallic character of its chemical bond. There are 2 figures and 9 references: 7 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: Mellor's Comprehensive Treatise on Inorganic and Theoretical Chemistry, 9, p. 391, 1947.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

SUBMITTED: September 28, 1960

Card 3/3

L 23903-65   EWT(m)/EWP(t)/EWP(b)   IJP(c)   JD/JG

ACCESSION NR: AP4009355   S/0078/64/009/001/0218/0220

AUTHOR: Ugay, Ya.; Gordin, V. L.; Anokhin, V. Z.

TITLE: The preparation and certain properties of beryllium antimonide Be_3Sb_2

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 1, 1964, 218-220

TOPIC TAGS: beryllium antimonide synthesis, beryllium antimonide, property, electric resistance, conductivity, beryllium antimonide

ABSTRACT: The study of the Be-Sb system indicates formation of one compound—Be_3Sb_2. Vaporization in a high vacuum furnace was conducted in graphite cylinders; the beryllium readily dissolves tungsten and tantalum. The formation of a compound between Be and Sb depends on the temperature of the backing. The compound Be_3Sb_2 is stable in air; data on its electric resistance and the temperature-conductivity function are shown in the enclosures. Orig. art. has 2 figures.

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L 23903-65
ACCESSION NR: AP4009355

ASSOCIATION: Voroneshskiy gosudarstvenny*y universitet (Voronezh State University)

SUBMITTED: 11Oct62   INCL: 01   SUB CODE: IC,GC

NO REF SOV: 005   OTHER: 000

Card 2/3

L 14644-66   EWT(1)   GW
ACC NR: AT6004295   SOURCE CODE: UR/3175/65/000/026/0044/0048

AUTHOR: Ab, E. A.; Gordin, V. L.; Levitin, A. I.; Filippov, V. A.

ORG: none

TITLE: A portable source of ultraviolet radiation

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Osoboye konstruktorskoye
byuro. Geofizicheskaya apparatura, no. 26, 1965, 44-48

TOPIC TAGS: UV light source, spectral distribution

ABSTRACT: The authors describe a portable radiation source designed for operation
in the UV region of the spectrum at about 254 and 320-400 mμ. The spherical en-
velope of the tube is made from ordinary uviol glass and is about 15 mm in diameter
with a wall thickness of the order of fractions of a millimeter. The radiation spec-
trum of the tube may be expanded by coating the inside of the envelope with a phos-
phorescent material which emits radiation in the desired spectral region. If part
of the surface of the envelope is left uncoated (a "window"), the same tube may be
used for bidirectional radiation in different spectral regions. Optimum supply fre-

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L 14646-66
ACC NR: АТ6004295

2

quency was found to be of the order of 100 Mc. A power of the order of 12 w and a
frequency of about 100 Mc gave a surface radiation density in the 254 mµ range ap-
proximately fifty times that of BUV-15 tubes (15 w) and nearly equal to the surface
density for PRK tubes. Application of L-33 phosphor increases emission in the 320-
-400 mµ with a surface radiation density approximately 30-40 times that of the
UFO-4A tube which has similar spectral distribution. An increase in tube power is
not recommended since it may darken or melt the glass of the envelope. Tables and
curves are given illustrating the characteristics of spectral distribution for emis-
sion from these tubes. The authors are sincerely grateful to L. A. Khutsishvili
and N. N. Klimenko for their participation in this work. Orig. art. has: 3 figures,
2 tables.

SUB CODE: 20/   SUBM DATE: 00/   ORIG REF: 004/   OTH REF: 001

Card 2/2

L 1855-56   EWT(1)/EPA(s)-2/EWT(m)/EPF(n)-2/T/EWP(t)/EWP(b)/EWA(c)   IJP(c)
JD/WW/JW/GG

ACCESSION NR: AP5022252

UR/0363/65/001/007/1051/1053
546.682'181.1:548.55

AUTHOR: Ugay, Ya. A.; Gordin, V. L.

TITLE: Growing indium phosphide single crystals

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 7, 1965, 1051-1053

TOPIC TAGS: single crystal, indium, indium compound, phosphide, semiconductor single crystal, single crystal growth, single crystal growing, crystallization, crystal property, electric property, indium phosphide, melt crystallization, crystal electric property

ABSTRACT: Indium phosphide single crystals have been obtained by a slow (1.3—1.5 mm/hr) crystallization from melt of stoichiometric composition under 40 atm of phosphorus pressure in a thick-walled horizontal quartz ampul. Originally, the ampul contained indium and phosphorus separated by a drawn-out portion. The ampul was heated in a two-zone resistance furnace. A gradual increase in voltage made possible a gradual progress of crystallization front in the indium zone of the ampul. The advantages of this technique were stressed in comparison

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ACCESSION NR: AP5022252

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with the technique of pulling the crystal from the melt. The x-ray diffraction pattern showed that the ingot obtained was single crystalline over nearly 2/3 of its length. Single crystals 10—12 mm in diameter and 70—100 mm long were obtained. The crystals had an n-type conductivity, thermoelectric power of 150 μv/degree, carrier concentration of (2.0—3.0) x 10^{16} cm^{-3}, and a carrier mobility of 6000 cm^2/v·sec at room temperature. The latter value exceeded all previously known from the literature and indicated the good quality of the crystals. The electrical characteristics may be improved, e.g., by crucibleless zone-melting. Orig. art. has: 3 figures.   [JK]

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

SUBMITTED: 10Apr65   ENCL: 00   SUB CODE: SS

NO REF SOV: 001   OTHER: 004   ATD PRESS: 4087

Cord 2/2

ACC NR: AP7013719   SOURCE CODE: UR/0154/66/000/001/0079/0083

AUTHOR: Aronov, V. I. (Candidate of physico-mathematical sciences); Gordin, V. M. (Student)

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Computation of the values V_{gz} in a mountainous region

SOURCE: IVUZ. Geodeziya i aerofotos"yomka, no. 1, 1966, 79-83

TOPIC TAGS: Poisson equation, earth gravity

SUB CODE: 08

ABSTRACT: For computing the values V_{zz} from gravity anomalies it is customary to use a formula obtained by differentiation of the Poisson integral for the vertical coordinate. In mountain regions where the observations are made at different elevations the accuracy of computations is low when that formula is used. The errors may be tens or even hundreds of percent of the computed value and in some cases the V_{zz} anomalies may reverse signs. A method was proposed by M. K. Kartvelishvili for computing V_{zz}, taking into account the difference in elevation of stations. The method was based on the M. S. Molodenskiy equations

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ACC NR: AP7013719

proposed for computing plumb-line deflections and reduction of gravity
anomalies to an external plane, but computations were not given on models
characterizing the accuracy of the method. Accordingly, the author of
this paper proposes a relatively simple method for computing V_{zz} in a
mountainous region. Three examples of computations are given. Even under
difficult conditions the accuracy is high. In the case of a large number
of iterations the method is equal in accuracy to computations based
directly on the theoretical values $\triangle g$ given on a plane passing directly
through the computed point, and in some cases exceeding it. The accuracy
in computing V_{zz} in a mountainous region by this method is equal to the
accuracy for a lowland region. The same can be demonstrated for the com-
putation of the horizontal derivative of potential and reduction of
gravity anomalies. Orig. art. has: 1 figure, 3 formulas and 4 tables.
[JPRS: 40,496]

Card 2/2

GORDINA, A. M.

SOV/4593

PHASE I BOOK EXPLOITATION

Vsesoyuznoye soveshchaniye po fizike, fiziko-khimicheskim svoystvam ferritov i fizicheskim osnovam ikh primeneniya. 3d, Minsk, 1959

Ferrity; fizicheskiye i fiziko-khimicheskiye svoystva. (Ferrites; Physical and Physicochemical Properties. Reports) Minsk, Izd-vo AN BSSR, 1960. 655 p. Errata slip inserted. 4,000 copies printed.

Sponsoring Agencies: Nauchnyy sovet po magnetizmu AN SSSR. Otdel fiziki tverdogo tela i poluprovodnikov AN BSSR.

Editorial Board: Resp. Ed.:- N. N. Sirota, Academician of the Academy of Sciences BSSR; K. P. Belov, Professor; Ye. I. Kondor-skiy, Professor; K. M. Polivanov, Professor; R. V. Telesnin, Pro-fessor; O. A. Smolenskiy, Professor; N. N. Smol'prenko; and fessor: L. A. Bankirov; Ed. of Publishing House: S. Eholyavskiy; Tech. Ed.: I. Volodnanovich.

PURPOSE: This book is intended for physicists, physical chemists, radio electronics engineers, and technical personnel engaged in the production and use of ferromagnetic materials. It may also be used by students in advanced courses in radio electronics, physics, and physical chemistry.

COVERAGE: The book contains reports presented at the Third All-Union Conference on Ferrites held in Minsk, Belorussian SSR. The reports deal with magnetic transformation, electrical and galvanomagnetic properties of ferrites, studies of the growth of ferrite single crystals, problems in the chemical and physi-cochemical analysis of ferrites, studies of ferrite systems having rectangular hysteresis loops and multicomponent ferrite systems exhibiting spontaneous rectangularity, problems in magnetic structure, highly coercive ferrites, magneto-optics, magnetic spectroscopy, ferromagnetic resonance, magnetic circuits, anisotropy of using ferrite components in electrical circuits, etc. The Committee on Mag-electrical and magnetic properties. (S. V. Vonsovskiy, Chairman) organized the con-netism, AS USSR (S. V. Vonsovskiy, Chairman) individual articles. ference. References accompany individual articles.

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Ferrites (Cont.)   SOV/4593

Belskova, T. I., and L. S. Ozsey. Magnetochemical In-
vestigation of Nickel-Cobalt Ferrites   137

Kvyaral, Y. I., and A. M. Gordina. New Ferrites for the
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Rabkin, L. I., and Z. I. Novikova. Some Properties of
Nickel-Zinc Ferrites, Dependent Upon the Conditions of
Synthesis and Their Content of Fe Ions   146

Belov, K. P. Discussion of the (Preceding) Report   158

Rabkina, L. A., A. P. Palkin, and N. N. Sirota. X-Ray
Structural Investigation of the Ternary System
NiFe₂O₄-MgFe₂O₄-ZnFe₂O₄   159

Moldtmans, I. V., and N. N. Sirota. Investigation of
the Effect of Composition on the Properties of Magnesium-
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Card 4/18

L 54997-65   EWG(j)/EWT(1)/EWT(m)/EPF(c)/EPF(n)-2/EPR/T/EWP(t)/EEC(b)-2/EWP(b)/
EWA(c)   Pr-4/Ps-4/Pu-4/Pi-4   IJP(c)   JD/WW/JW/JG/GG

AUTHOR: Tret'yakov, Yu. D.; Saksonov, Yu. G.; Gordeyev, I. V.; Zayonchkovskiy,
Ya. A.; Gordina, A. M.

TITLE: Correlation between dissociation pressure and crystal lattice parameters of
manganese-containing multicomponent ferrites

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 3, 1965, 408-412

TOPIC TAGS: manganese ferrite, dissociation, thermal stability, lattice parameter

ABSTRACT: An attempt was made to correlate the dissociation pressure of the solid
solution ($Mn_xFe_{3-x}O_4$) and the lattice parameter a on the basis of thermodynamic and
x-ray data. The object of the study was to develop a method of predicting thermal
stability of manganese-containing multicomponent ferrites, materials widely used in
the electronic industry and purification technology. Several solid solutions of
$Mn_xFe_{3-x}O_4$ ($0 \le x \le 3$) containing MgO, ZnO, and CaO were prepared by fusing mixtures
of these oxides for 5 hours at 1000°C. Dissociation pressures for several

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L 54997-65

ACCESSION NR: AP5011939

$Mn_xFe_{3-x}O_4$ solid solutions and mixtures of ferrites were measured in the 800-1200°C temperature range. There is an irregularity between composition and the change of lattice parameter a of the solid solutions of magnetite (Fe_3O_4) and hausmannite (Mn_3O_4). This irregularity is due to interchangeable replacement of iron in magnetite with Mn^{2+} and Mn^{3+} ions. In the 800-1100°C temperature range there is a correlation between the dissociation pressure of the manganese-containing multicompo-nent ferrites and the crystal lattice parameter a. This correlation is independent of the nature of complementary components present in the manganese-containing fer-rite. For the Fe_3O_4-$MnFeO_4$ system, the lattice parameter a increases in proportion to replacement of Fe^{3+} ions ($r = 0.67$ Å), in $Fe^{3+}[Fe^{2+}Fe^{3+}]O_4$ tetrahedra with Mn^{2+} ions ($r = 0.91$ Å). In the $MnFe_2O_4$-Mn_3O_4 system, the changes in the lattice parameter a are small since Fe^{3+} ions in the $Mn^{2+}[Fe_2^{3+}]O_4$ octahedral spinel units are re-placed with Mn^{3+} ions ($r = 0.70$ Å). Orig. art. has: 2 tables and 3 figures.

ASSOCIATION: Khimicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Department of Chemistry, Moscow State University)

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Dissertation   Phagotypes of Paratyphoid B Bacteria
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                Bacteriophages

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Affiliation   /not indicated/

Defense Date, Place   14 Jan 56, Council of the Department
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Certification Date   29 Dec 56

Source   BMVO 7/57

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