GAGIYEV, R.R., kand.med.nauk

Plastic splint for treatment of injuries of the metacarpal bones and phalanges. Ortop.,travm.i protez. no.5:53-55 '61.

(MIRA 14:8)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G.L. Shapiro) Severo-Osetinskogo meditsinskogo instituta (dir. - dotsent M.A. Totrov).

(SPLINTS (SURGERY)) (HAND--WOUNDS AND INJURIES)

GAGIYEV, Petr Petrovich; GOLIYEVA, A.T., red.

[Plastics in orthopedics, traumatology and osteoarticular tuberculosis] Plasticheskie massy v ortopedii, travmatologii i pri kostno-sustavnom tuberkuleze. Ordzhonikidze, Severo-Osetinskoe knizhnoe izd-vo, 1963. 192 p.
(MIRA 17:6)

YUGOSLAVIA

Branislav GAGJANSKI and Ivan JANKOVIC, Department of Radiology of the Medical Faculty of the University (Radioloski institut Medicinskog fakulteta Univerziteta), Head (Upravnik) Prof Dr Bogoljub BOSNJAKOVIC, Belgrade.

"Biological Foundations of Radiotherapy in Otorhinolaryngology."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 91, No 1, Jan 63; pp 53-56.

Abstract: A general, teaching type of review of radiation treatment of tumors in the ENT area, discussing mainly the unexplained differences in radiosensitivity depending not only on histologic-cytologic type of tumor but also on location, and on preventing damage to surrounding structures. Five Western authors are mentioned in the text without bibliographic references.

GAGLOV, I.I., polkovnik zapasa; TREFILOV, N.F., kapitan 2 ranga, red.

[Peaceful days, fighting exploits] Dni mirnye, podvigi boevye. Moskva, Voenizdat, 1965. 301 p. (MIRA 17:12)

GAGLOYEV, Mukhtar Gazanovich; PECHUGIN, Donat Arsent'yevich; SOROKIN, N.N., red.; BOBROVA, Ye.N., tekhn.red.

[Mechanized methods of performing filler work; practices of mechanized track stations] Mekhanizatsiia rabot po likvidatsii puchin; opyt putevykh mashinnykh stantsii. Moskva, Gos.transp. zhel-dor.izd-vo, 1957. 61 p. (MIRA 10:12)
(Railroads--Track)

GAGLOYEV, M.G., inzhener.

Eliminating "heaves" with the use of mechanical apparatus. Put' i put. khoz. no.2:26-27 F '57. (MLRA 10:4)
(Railroads--Track)

GAGLOYEV, V.G.

Automatic switch for the tape-tightening mechanism. Razved. i prom. geofiz. no.2:32-36 '57. (MIRA 11:4)
(Seismometers) (Electric switchgear)

VASIL'YEV, A.; VOLOKITIN, A.; TSELYKOVSKIY, P.; LOTOREV, D.; GAGLOYEVA, N.; KRYUKOVA, T.; CHIKOVA, N.

Second edition of a handbook on the economics of Soviet trade ("Economics of Soviet trade." Reviewed by A. Vasil'ev and others). Sov.torg. 33 no.6:62-64 Je '60. (MIRA 13:7)

1. Prepodavateli kafedry ekonomiki Leningradskogo instituta sovetskoy torgovli.

(Russia--Commerce)

VASIL'YEV, A.; GAGLOYEVA, N. (Leningrad)

Let's fulfill the demand for furniture more thoroughly. Sov. torg. 33 no.5:15-16 My '60. (MIRA 13:11)
(Leningrad Province--Furniture industry)

GAGLOYEVA, N. (Leningrad); KUDRYAVTSEV, A. (Leningrad)

Store and atelier of small size furniture. Sov, torg. 34 no.4: 43-46 Ap '61. (MIRA 14:4)
(Leningrad—Furniture industry)

GAGLOYEVA, N., kand.edonomicheskikh nauk (Leningrad); GORIN, N.

Economic council at an enterprise. Sov. torg. 36 no.10:42-43 O '62. (MIRA 16:2)

1. Nachal'nik planovogo otdela kontory Rosmyasorybtorga, Leningrad (for Gorin).
(Leningrad--Food industry)

GAGLOYEVA, Z. D.

"Osetinskiy 'rvadalta'. K strukture rodstvennykh ob'edineniy u osetin."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

GAGNEBIN, S.

Math

Pgs

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Gagnebin, S. Pour le troisième centenaire de la naissance de Leibniz (1646-1716). Dialectica 1, 77-97 (1947).

Source: Mathematical Reviews, 1948, Vol 9, No. 2

GAGNEBIN, S.: For the Three-Hundredth Anniversary of Leibnitz' Birth

GAGNIDZE, P. I.

"Obtaining Barium Hydroxide through the Reaction between Barium Sulfide and Managanese Dioxide (Manganese Dioxide (Manganous Method)." Min Higher Education USSR, Georgian Order of Labor Red Banner Polytechnical Institute imeni S. M. Kirov, Tbilisi, 1955. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

GAGNIDZE, P.I

The manganese method of barium hydroxide production. V. M. Kakabadze and P. I. Gagnidze. *Doklady Akad. Nauk S.S.S.R.* 105, 1053–6 (1955).—A no. of possible $Ba(OH)_2$ uses are foreseen, if it can be obtained sufficiently pure. The method recommended is based on the reaction $2Ba(OH)(SH) + 2MnO_2 \rightarrow 2Ba(OH)_2 + MnS + S$, the probability of which was confirmed by thermodynamic computations. The use of an excess of MnO_2 over the theoretical amt. was studied. The following advantages are listed for the process: simplicity of equipment (particularly in the already existing lithopone plants) and of manipulations; the purity of the product; and the by-product value.

W. M. Sternberg

GAGNIDZE, P.I.

Interaction between barium sulfate and barium sulfide. Trudy GPI [Gruz.] no.5:107-111 '62. (MIRA 17:10)

GAGNIDZE, R.I.

Note on Cephalaria balkharica K. Busch. Zam. po sist. i geog. rast. no.21:43-46 '59. (MIRA 13:8)
(Kabardino-Balkar A.S.S.R.--Cephalaria)

GAGNIDZE, R.I.

Floristic elements of the subalpine deep meadows on the northern slopes of the central Caucasus. Soob.AN Gruz.SSR 25 no.5:587-594 N '60. (MIRA 14:1)

1. Akademiya nauk GruzSSR, Institut botaniki, Tbilisi. Predstavleno akademikom N.N. Ketskhoveli.
(Caucasus--Pastures and meadows)

GAGNIDZE, R.I.

Notes on Angelica tatianae E. Bordz. Zam. po sist. i geog. rast. no.22:27-33 '61. (MIRA 14:7)
(Angelica)

GAGNIDZE R.I.

Investigating the flora of Colchian subalpine tall-grass meadows. Zam. po sist. i geog. rast. no.22:83-89 '61. (MIRA 14:7)
(Georgia--Alpine flora)

GAGNIDZE, R.I.

Materials on the study of the flora of subalpine tall-herb lands of the Greater Caucasus. Trudy Tbi. bot. inst. 22: 3-43 '62. (MIRA 17:2)

KELEMEN, Nora, dr.; GAGO, Gizella, dr.

A case of resorcin poisoning in an infant treated with exchange transfusion. Gyermekgyogyaszat 14 no.10:312-314 O '63.

1. Tolna megyei Tanacs Balassa Janos Korhaza (igazgato foorvos: Szentgali Gyula dr.) Gyermek osztalyanak (foorvos: Konig Imre dr.) kozlemenye.
(RESORCINOL) (POISONING) (EXCHANGE TRANSFUSION)

GECK, Peter, dr.; GAGO, Gizella, dr.; KOVACS, Sandor, dr.

Immune fluorescent tests and their significance in the control of dyspepsia coli. Orv. hetil. 106 no.25:1171-1172 20 Je '65.

1. Magyar Nephadsereg, Egeszsegugyi Szolgalat es Tolna megyei Tanacs, Balassa Janos Korhaz.

Gagorochkina M.K.

FEYMAN, I.I., kand.tekhn.nauk; GRUBOV, A.F.; GAGOROCHKINA, M.K., studentka; MYASNIKOVA, N.V., studentka

Choosing optimum weft twists for burlap fabrics. Tekst.prom. 18 no.5:70-71 My '58. (MIRA 11:5)

1. Glavnyy inzhener Narvskoy l'no-dzhutovoy fabriki (for Grubov).
2. Kostromskoy tekstil'nyy institut (for Gagarochkina, Myasnikova).
(Burlap)

LI, V.G.; GAGOSHIDZE, G.D., otv.red.; UTYAYEV, S., tekhred.

[Economic development of consolidated collective farms in the Tajik S.S.R., 1950-1958] Razvitie ekonomiki ukrupnennykh kolkhozov Tadzhikskoi SSR, 1950-1958 gody. Stalinabad, Tadzhikskii gos.univ., 1959. 257 p.

(MIRA 14:2)

(Tajikistan--Collective farms)

24865. GAGOSHIDZE, N. S. Obshaya Zarakteristika Gornykh Potokov, Seley, Seleobrazuyushchikh Ochagov I Voprosy Formirovaniya Seley. Trudy Yubileynoy Sessii, Posvyashch. Stoletiyu So Dnya Rozhdeniya Dokuchayeva. M.-L., 1949, S 446-51

SO: Letopis' No. 33, 1949

General Characteristics of Mine Flows, Salt, Salt Forming Centers and Problems of salt formation. Trudy of the Jubilee session dedicated to the 100th anniversary of the birth of Dokuchayev.

SOV/112-57-5-9942

8 (6)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 5, p 43 (USSR)

AUTHOR: Gagoshidze, M. S.

TITLE: Abridged Contents of an Instruction for Exploration of Mud-Flow Basins of Mountain Rivers (Kratkoye soderzhaniye instruktsii po obsledovaniyu selevykh basseynov gornykh rek)

PERIODICAL: Tr. Gruz. n.-i. in-ta gidrotekhn. i melior., 1956, Nr 4(17), pp 194-202

ABSTRACT: Bibliographic entry.

Card 1/1

AUTHOR: Gagoshidze, M.S., Professor SOV-99-58-9-3/9

TITLE: Hydraulic Method to Fight Mud and Stone Carrying Streams (Gidravlicheskiy sposob bor'by s selevymi (gryazekamennymi) potokami)

PERIODICAL: Gidrotekhnika i melioratsiya, 1958, Nr 9 pp 17-26 (USSR)

ABSTRACT: Mud and stone carrying streams constitute a source of acute danger to all constructions and towns located along such streams. They usually carry along a sticky, fast moving mixture of mud and stones, which fills the central part of the riverbed, 2 to 4 m high and 40 to 50 m wide. This mixture has a slightly convex form and steep (up to 60-70°) sides. Like a ram, it breaks and destroys everything in its way. The correlation of its components depends on mineralogical composition of rocks of the region through which this stream passes. The mud taken from the Durudzhi river, which flows from the southern slopes of the main Caucasus mountain range, had the following composition: rocks and stones 57-67%; earth - 23-27% and water - only 10-16%. The author describes in details the hydraulic method of fighting the mud and stone stream formed by the Durudzhi river. The method was elaborated by the Gruzinskiy

Card 1/2

SOV-99-58-9-3/9

. Hydraulic Method to Fight Mud and Stone Carrying Streams

nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii (The Georgian Scientific Research Institute of Hydraulic Engineering and Melioration) to protect Kvareli (Georgian SSR) from the Durudzhi river, where such mud streams often occured. It consists mainly in liquifying the compact mass of mud and stones by adding water from reservoirs built for this purpose. When this mass is sufficiently diluted stones and rocks sink to the bottom of the river and the earthy part is carried away by the stream, without causing any damage. There are 2 diagrams and 1 map.

1. Inland waterways--Hazards 2. Inland waterways--Safety measures
3. River currents--USSR

Card 2/2

GAGOSHIDZE, M.S.

Brief results of research completed by the Georgian Scientific Research Institute of Hydraulic Engineering and Land Reclamation in 1957. Trudy GruzNIIGiM no.20:3-15 '58. (MIRA 15:5)
(Georgia--Reclamation of land--Research)
(Georgia--Hydraulic engineering--Research)

GAGOSHIDZE, M.S.

Apparatus for automatic recording of the horizons and velocities of water and flash floods and sampling of the moving debris load. Trudy GruzNIIGiM no.20:343-356 '58. (MIRA 15:5)
(Georgia--Floods) (Stream measurements)

GAGOSHIDZE, M.S.

"Recent data on the dynamic structure of flash floods" by G.V. Ivanov. Reviewed by M.S.Gagoshidze. Trudy GruzNIIGiM no.20: 368-374 '58. (MIRA 15:5)

(Floods) (Ivanov, G.V.)

GAGOSHIDZE, M.S., prof., otv. red.

[Transactions of the All-Union Scientific-Technological Conference on Water Intakes and River Bed Evolution] Trudy Vsesoiuznogo nauchno-tekhnicheskogo soveshchaniia po vodozabornym sooruzheniiam i ruslovym protsessam; posviashchaetsia 40-letiiu Sovetskoi vlasti i sozdaniia kompartii Gruzii. Tbilisi, Gruzinskii nauchno-issl. in-t gidrotekhniki i melioratsii Gruzniigim. (MIRA 14:8)

1. Vsesoyuznoye nauchno-tekhnicheskoye soveshchaniye po vodozabornym sooruzheniyam i ruslovym protsessam.
(Hydraulics--Congresses)

GAGOSHIDZE, M.S.

Summary of the results of the research work of the Georgian Scientific Research Institute of Hydraulic Engineering and Reclamation in 1958 and 1959. Trudy Gruz NIIGiM no.21:3-20 '60. (MIRA 16:1)

(Georgia--Reclamation of land)
(Georgia--Hydraulic engineering)

GAGOSHIDZE, M.S.

Formulas for calculating the flow speeds of eroding streams.
Trudy Gruz NIIGiM no.21:85-98 '60. (MIRA 16:1)
(Erosion)

GAGOSHIDZE, M.S., doktor tekhn.nauk, prof.

Georgian Scientific Research Institute of Hydraulic Engineering and Reclamation on the 40th anniversary of the establishment of Soviet rule in Georgia and the formation of the Georgian Communist Party. Trudy Gruz NIIGiM no.21:V-VLII '60. (MIRA 16:1)

1. Direktor Gruzinskogo nauchno-issledovatel'skogo instituta gidrotekhniki i melioratsii; chlen-korrespondent Akademii sel'skokhozyaystvennykh nauk Gruzinskoy SSR.
(Georgia--Reclamation of land)
(Georgia--Hydraulic engineering)

LOPATIN, G.V., doktor geogr. nauk, otv. red.; IOGANSON, V.Ye., kand. geogr. nauk, red.; GAGOSHIDZE, M.S., prof., red.; DUMITRASHKO, N.V., doktor geogr. nauk, red.; KOCHERGA, F.G., kand. sel'khoz. nauk, red.; SRIGNYY, M.F., doktor tekhn.nauk, red.; CHUBUKOV, L.A., doktor geogr. nauk, red.

[Mudflows of the U.S.S.R. and measures for controlling them] Seli v SSSR i mery bor'by s nimi. Moskva, Izd-vo "Nauka," 1964. 280 p. (MIRA 17:6)

1. Akademiya nauk SSSR. Institut geografii.

GAGOSHIDZE, Valerian Sergeyevich; NEPRINTSEV, M.N., retsenzent; TSIBADZE, O.V., retsenzent; AGABABYAN, R.Ya., red.

[Designing economical apartments and units for conditions existing in the south] Proektirovanie ekonomichnykh kvartir i sektsii v usloviiakh iuga. Tbilisi, Gos.izd-vo uchebno-pedagog. lit-ry "TSodna," 1961. 114 p. (MIRA 18:4)

MITEV,G.; GAGOV, Il.

Peroral vaccination of chickens and hens with apathogenic viruses against the Newcastle disease. Izv Vet inst virus 1: 67-70 '62

Experiments with serial cultures of the Newcastle virus in newborn rabbits. Ibid. 71-[illegible] '62

TOSHKOV,Al.; GAGOV,Il.; MANOLOVA,N.; PANCHEVA-GOLOVINSKA,S.

Effect of some substances on the antimicrobial activity of the chick embryo. Izv. microbiol. inst. 15:97-101 '63

TOSHKOV, Al.; MANOLOVA, N.; GAGOV, Il.; PANCHEV-GOLOVINSKA S.

Multiplication and spreading of chickenpox virus in the organism and its reactions. Izv. mikrobiol. inst. (Sofiia) 16:381-186 '64

MITEV, G.; GAGOV, Il.; KULIKOV, V.P. [translator]

Peroral vaccination of poultry against Newcastle disease using live apathogenic viruses. Veterinariia 41 no.11:[illegible] N '64. (MIRA 18:11)

1. Tsentral'nyy nauchno-issledovatel'skiy veterinarnyy institut virusologii, Bolgariya.

ACC NR: AT0026[illegible] SOURCE CODE: BU/0011/65/018/011/1039/1042

AUTHOR: Calabov, S.; Gaydov, I.

ORG: Institute of Microbiology, BAN

TITLE: Attempts at cultivating certain viruses of the myxogroup on microbe suspensions treated and untreated with ultrasound

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 11, 1965, 1039-1042

TOPIC TAGS: virus, ultrasound, bacteriology, virology

ABSTRACT: The virus cultivation problem is as old as the knowledge of their existence. The saprophyte bacteria which possess a high biochemical activity contain a great deal of building materials such as ribosomes, RNA, activated aminoacids, sugars, lipoids, enzymes, and magnesium salts which are all vitally necessary for the reproduction of the viruses. Consequently, the authors investigated the possibility of the use of certain bacteria as media for cultivating viruses. Experiments were conducted on cultivating viruses of the myxogroup in ordinary microbe suspensions and in suspensions treated with ultrasound. The influenza virus A - strain PR_8 in a -log 1 dilution with saline, inoculated in doses of 0.1 ml in 1 ml of undiluted and 2^{-1} and 2^{-2} of diluted bacterial suspension of Bac. subtilis and Bac. mesentericus was propagated and yielded HA titres from 1:80 to 1:320 against

Card 1/2

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ACC NR: AP6028474

0 titre of the controls. Influenza virus [illegible] and Newcastle viruses Asplin's strain F and Komarov's strain were also successfully cultivated in ordinary and ultrasound-treated bacterial suspensions of Bac. subtilis. This paper was presented by Corresponding Member A. Toshkov on 27 August 1965. Orig. art. has: 2 tables. [Orig. art. in Eng.] [JPRS: 36,592]

SUB CODE: 06 / SUBM DATE: 27Aug65 / SOV REF: 002 / OTH REF: 005

Card 2/2

STRASHIMIROV, D.; GAGOV, St.; OGNIANOV, M.

Effect of the stimulation of the perirenal zone using low-frequency currents on the urinary excretion of steroids in hypertensive patients. Izv. Inst. fiziol. (Sofiia) 7:29-35 '64.

MANOLOVA,N.; GAGOV, D.; [illegible]ANCHEVA-GOLOVINSKA, D.

Effect of various inhibitors on experimental myxovirus infections. I. Effect of quinine on some properties of the A Influenza virus A2. Izv. mikrobiol. inst. (Sofiia) 16:187-192 '64.

GAGOV, St.

Effect of low-frequency impulse currents on high arterial pressure in subjects of various ages. Izv. Inst. fiziol. (Sofiia) 7:37-47 '64.

GAGOV, St.; OGNIANOV, M.

Blood cholesterol and lipoprotein level in hypertension and their modification in decreased blood pressure by means of low-frequency impulse currents. Izv. inst. fiziol. (Sofiia) 8:209-215 '64

GAGOV, St.

Oscillographic studies in hypertensive patients on changes in medium-size arteries produced by lowered arterial pressure induced with low-frequency impulse currents. Ivz. inst. fiziol. (Sofiia) 8:103-115 '64

Heart rate in hypertensive patients influenced by decreased arterial pressure by means of low-frequency current. Ibid.: 117-122

GAGOVSKI, N.

The indefatigable. Radio i televiziia 8 no.7:196-197 '64.

Author (in caps); Given Names

Country: Rumania

Academic Degrees: -not given-

Affiliation: -not given-

Source: Bucharest, Comunicarile Academiei Republicii Populare Romine, Vol 11, No 6, 1961, pp 723-730.

Data: "The Nature of the Water Tables in the Dam-Enclosure of Braila -- South of the Siret Between 1956 and 1958."

Co-authors:

APETROAIEI, Maria.
GAGU, Al.

Academic degrees and affiliations not given

HARET, G.; APETROAIEI, Maria; CAGU, Al.

Conditions of the phreatic waters in the protective enclosure Braila-mouth of the Siret River between 1956 and 1958. Comunicare AR 11 np.6:723-730 Je '61.

1. Comunicare prezentata de Gr. Obrejanu, membru corespondent al Academiei R.P.R.

GAGUA, E.D.; BALUASHVILI, A.A.

Respiration and rate of movements in 800 m running competition.
Teor. i prak. fiskul' 18 no.7:547-551 '55. (MLRA 8:10)

1. Gruzinskiy nauchno-issledovatel'skiy institut fizicheskoy kul'tury.
(ATHLETICS, physiology,
runner's resp. & movement rate in 800 m running competition)
(RESPIRATION physiology,
in runners, in 800 m running competition)

BR

PHASE I BOOK EXPLOITATION SOV/5962

Vsesoyuznoye soveshchaniye po vychislitel'noy matematike i primeneniyu sredstv vychislitel'noy tekhniki, Baku, 1958.

Trudy (Transactions of the All-Union Conference on Computer Mathematics and Applications of Computers) Baku, Izd-vo AN Azerbaydzhanskoy SSR, 1961. 254 p. 500 copies printed.

Sponsoring Agency: Akademiya nauk Azerbaydzhanskoy SSR. Vychislitel'nyy tsentr.

Eds.: A.A. Dorodnitsyn, S.A. Aleskerov, and K.F. Shirinov; Ed. of Publishing House: A. Til'man; Tech. Ed.: T. Ismailov.

PURPOSE: The book is intended for mathematicians and other specialists interested in computer theory and uses for computers.

COVERAGE: The book contains the texts of 24 papers presented at the All-Union Conference on Computer Mathematics and Applications of Computers held in Baku, 3-8 Feb 1958. The "Resolution"

Card 1/6

of the conference, consisting of proposals for accelerating the development of computer mathematics and computer engineering, is also included.

TABLE OF CONTENTS:

Khalilov, Z.I. Introductory Remarks 7

Dorodnitsyn, A.A. Problems of Computer Technology 9

PART I. COMPUTER MATHEMATICS

Vekilov, Sh.I. Boundary Problem of the Laplace Equation for a Composite Region 14

Dzhabarzade, R.M. The Use of Computers for Operational Weather Forecasting 20

Korolyuk, V.S. Construction of Logic Problem Algorithms 23

Gagua, M. Numerical Solution of the Equation Y' = f(x,y) 94

Maruashvili, T.I. Accuracy of the Solution on Electrical Networks of a Finite-Difference Equation Approximating Poisson's Equation 98

Khatiashvili, G.M. Almasi-Mitchell Problem of a Beam Formed by Two Concentric Circular Cylinders Made of Different Materials 101

Arin', E.I. Method of Symbolic Addresses for a Two-Address Machine 106

Shirinov, K.F. A Filter Theory Problem 110

PART II. COMPUTER TECHNIQUES

Aleskerov, S.A. Results of Scientific Research Studies Obtained by the Use of Computers at the Computation Center, Academy of Sciences Azerbaydzhanskaya SSR 119

GAGUA, M. B.

Mathematical Reviews
Vol. 14 No. 10
Nov. 1953
Analysis

7-14-54
LL

(3) Math 3

Gagua, M. B. On a theorem of S. N. Bernštein. Soobšč. Akad. Nauk Gruzin. SSR 13, 207–208 (1952). (Russian)

Let E be an arbitrary closed set in Euclidean n-space, and $u_0, u_1, v_1, u_2, v_2, \cdots$ be an orthonormal system of real, continuous functions on E. Designate by M_n $(n=0, 1, \cdots)$ the set of functions of the form $w_n(x)=a_0u_0+\sum_{i=1}^{n}(a_iu_i+b_iv_i)$ where a_0, a_i, b_i are arbitrary real constants. Let $f(x)$ be a real function defined on E, and set

$$E_n(f)=\inf_{w_n\in M_n}\sup_{x\in E}|f(x)-w_n(x)|.$$

The author announces the following generalization of a theorem of S. Bernstein [C. R. Acad. Sci. Paris 206, 1520–1523 (1938)]. Given the numbers $A_0\geq A_1\geq\cdots$, $\lim_{n\to\infty}A_n=0$, there exists a continuous function $f(x)$, $x\in E$, for which $E_n(f)=A_n$ $(n=0, 1, \cdots)$. A similar theorem is stated where the functions f, u_n, v_n are solutions of an elliptic differential equation.

P. Davis

GAGUA, M. B.

Mathematical Reviews
Vol. 15 No. 1
Jan. 1954
Analysis

1-13-54
LL

Math

3

Gagua, M. B. On representation of functions by series of particular solutions of elliptic equations. Soobščeniya Akad. Nauk Gruzin. SSR 13, 321–327 (1952). (Russian)

For the differential equation

(1) $$\Delta u+a(x, y)u_x+b(x, y)u_y+c(x, y)u=0$$

with a, b, c entire, the author considers the special solutions

(2) $$u_n(x, y)=\mathrm{Re}\left[G(z, 0, z, \bar{z})P_n(z) - \int_0^z P_n(t)\frac{\partial}{\partial t}G(t, 0, z, \bar{z})dt\right].$$

Here $G(t, \tau, z, \zeta)$ is the complex Riemann's function for (1), $P_n(z)$ is an arbitrary polynomial of degree n, and $z=x+iy$. In complete analogy to the problem of the uniform approximation of functions of a complex variable by polynomials, the author studies the uniform approximation of function $f(x, y)$ by means of the special solutions (2). Let E be closed and bounded. A necessary and sufficient condition is derived in order that an arbitrary function which is continuous on E and satisfies (1) in the interior of E be uniformly approximable by solutions (2). This condition is automatically fulfilled if E is a closed simply connected region for which the Dirichlet problem for (1) is stable. It follows also that if E is a closed bounded nowhere dense set which does not separate the plane, then any $f(x, y)$ which is continuous on E can be uniformly approximated on E by the functions (2). This is the analog of a theorem of Walsh-Lavrentieff for polynomials.

P. Davis (Washington, D. C.)

GAGUA, M. B.

Mathematical Reviews
Vol. 14 No. 11
Dec. 1953
Analysis

8-10-54
LL

2

Gagua, M. B. On a theorem of Hardy and Littlewood. Uspehi Matem. Nauk (N.S.) 8, no. 1(53), 121–125 (1953). (Russian)

A function $f(z)$ is said to be of class Λ_p on a set E if $|f(z_1)-f(z_2)| \leqq A\,|\log|z_1-z_2|^{-1}|^{-p}$ for $z_1, z_2 \in E$. Let T be a bounded simply connected region with boundary L which satisfies the conditions $|z(w_1)-z(w_2)| \leqq M|w_1-w_2|^{\alpha_1}$, $|w_1|=|w_2|=1$; $|w(z_1)-w(z_2)| \leqq M_1|z_1-z_2|^{\alpha_2}$, $z_1, z_2 \in L$; $0<\alpha_i \leqq 1$, where $z(w)$ maps the unit circle conformally onto T and $w(z)$ is its inverse. The author proves that if f is analytic in T, continuous in $T+L$, and of class Λ_p on L, then it is Λ_p in $T+L$. This extends theorems of Hardy and Littlewood and of Walsh and Sewell. Applications are made to Cauchy integrals and to the solutions of linear partial differential equations with entire coefficients. *P. Davis.*

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress, Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Gabib-Zade, A. Sh. (Baku). Investigation of the Ramification Points of Non-Linear Loaded Integral Equations with Various Parameters. 44-45

Gavrilov, N. I. (Odessa). New Method Based on the Theory of Moments, for Investigating Non-linear Differential Equations. 45-46

Gagua, M. B. (Tbilisi). On the Completeness of Systems of Harmonic Functions. 46

Mention is made of Keldysh, M. V.

Gal'Pern, S. A. (Moscow). Gauchy Problem for the Equations of S. L. Sobolev Type. 47-48

There is mention of Petrovskiy, I. G.

There are 4 references, all of them USSR.

Gakhov, F. D. (Rostov-na-Donu). Chibrikova, L. I. (Kazan').

GAGUA, M.B.

Completeness of harmonic function systems. Soob.AN Gruz.SSR 19 no.1:3-10 Jl '57. (MIRA 10:12)

1. AN GruzSSR. Tbiliskiy matematicheskiy institut im.A.M.Razmadze. Predstavleno akademikom I.N.Vekua.
(Harmonic functions)

BAGNA, M.
16(0); 28(2) p.2 PHASE I BOOK EXPLOITATION SOV/3365

Akademiya nauk Azerbaydzhanskoy SSR

Tezisy dokladov Soveshchaniya po vychislitel'noy matematike i primeneniyu sredstv vychislitel'noy tekhniki (Outlines of Reports of the Conference On Computational Mathematics and the Use of Computer Techniques) Baku, 1958. 63 p. 400 copies printed.

Additional Sponsoring Agencies: Akademiya nauk SSSR. Vychislitel'nyy tsentr, and Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

No contributors mentioned.

PURPOSE: This book is intended for pure and applied mathematicians, scientists, engineers and scientific workers, whose work involves computation and the use of digital and analog electronic computers.

COVERAGE: This book contains summaries of reports made at the Conference on Computational Mathematics and the Application of Computer Techniques. The book is divided into two main parts. The first part is devoted to

Card 1/7

computational mathematics and contains 19 summaries of reports. The second section is devoted to computing techniques and contains 20 summaries of reports. No personalities are mentioned. No references are given.

TABLE OF CONTENTS:

SECTION ON COMPUTER MATHEMATICS

Vekilov, Sh. I. On One Boundary Value Problem of the Theory of Newton Potential 5

Abramov, A.A., and M.G. Neygauz. Two Remarks on Computing Eigen Vectors and Eigen Numbers for Higher Order Matrices 6

Gagua, M. On the Numerical Solution of the Equation $y' = f(x,y)$ 7

Amen-zade, Yu. A. Local Strains in the Joint Torsion and Bending of a Circular Prismatic Beam With Elliptic Non-coaxial Cavity 8

Yershov, A.P. On the Concept of a Computational Algorithm 9

Korolyuk, V. S. On the Construction of Algorithms of Logical Problems 10

Aleskerov, S.A. Mathematical Description of Transient Processes in Nonlinear Electromagnetic Systems 11

Khatiashvili, I.M. The Almansa-Mitchell Problem for a Beam Formed By Two Concentric Circular Cylinders of Various Materials 12

Karmazina, L.N. The Work of the Mathematical Tables Branch of the Computing Center at the Academy of Sciences, USSR 13

Gasanov, A.M. Solution of the Fundamental Problem of the Filtration of Gas-containing Petroleum by Relaxation Methods 14

Yershov, A.P., and V.M. Kurochkin. Automatic Programming, the Contemporary State, Fundamental Problems 15

Velikanova, T.M., and A.P. Yershov, K. V. Kim, V.M. Kurochkin, Yu. A. Oleynik-Ovod, and V. D. Podderyugin. Computer Programming Routine for the "Strela" Computer (PPS) 16

Podderyugin, V.D. Programming Arithmetic Operators in a Computer Programming Routine for the "Strela" 17

Tairov, M.A. Construction of Bearing Blocks in a Hydrogenerator and Calculating Pressures on Them 18

Kurochkin, V.M. Use of a Subroutine in a Computer Programming Routine for the "Strela"(PPS) 19

Yershov, A.P. On One Method of Programming Arithmetic Operators 20

Shirinov, K.F. On One Problem of the Theory of Filtration 22

Panayoti, B.N. Approximate Solution of a System of Equations Found in the Theory of Automatic Control 23

Dzhems-Levi, G.Ye. Standardization and Mechanization of the Design of Alignment Nomograms 24

SECTION OF COMPUTING TECHNIQUES

Aleskerov, S.A. Designs of Electromagnetic Systems on Electrical Models 27

Govorkov, V.A. Application of Relaxation Methods to Computing the Propagation of Directed Electromagnetic Waves 29

Khovanskiy, G.S. On the Work of the Nomograms Branch of the Computing Center at the Academy of Sciences SSSR 30

Arin', E.I. Method of Symbolic Addresses for a Two-address Machine 31

Makhmudov, Yu.A. Results of Developing a Universal Digital Computer With Magnetic (Ferrite) Elements With Large Central Core Storage 32

Kogan, B.Ya. On the Solution of Double-precision Problems on Electric Models 34

Zhukauskas, K. Calculation of Parameters of a Symmetric Trigger by the Levels of its Transfer to Zero and in the First Approximations 35

Babich, Yu.A. On the Filtration of a Liquid in Nonhomogeneous Media 36

Makhmudov, Yu.A. System of Instructions for a Universal Digital Computer With Magnetic (Ferrite) Elements and its Circuits 38

Nikolayev, N. New Continuously Operating Mathematical Machines for the Solution of Mathematical Physics Problems 40

Ragimova, Kh. Application of Mathematical Machines for the Solution of a Number of Scientific and Engineering Problems of Petroleum Production (Summary Reports) 41

Belkin, V.D. Application of Electronic Digital Computers in National Economic Planning 43

Babushkin, M.N. Operational Experience of the MPT-9 and IPT-5 Analog Devices and Certain Possibilities for Increasing the Number of Problems They Are Able to Solve 52

Maruashvili, T.I. On the Exactness of the Solution of a Finite-difference Equation, Which Approximates the Poisson Equation, on Electric Grids 53

Belotserkovskiy, S.M., and P. I. Chushkin. Solution of Some Problems of High Speed Aerodynamics on Electronic Digital Computers 56

Val'denberg, Yu.S. Specialized Mathematical Machine of Continuous Operation for the Solution of Integral Equations 57

Tsypkin, Ya.Z. Discrete Method of the Analysis and Synthesis of Continuous Systems 59

Glushkov, V.M. On the Basic Trends of Work at the Computing Techniques Laboratory of the Institute of Mathematics of the Academy of Sciences, USSR 61

Pentkovskiy, M.V. State of the Problem of Transforming Nomograms 62

AVAILABLE: Library of Congress (QA75.S7)

Card 7/7

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ГАГУА, М.Б.

PHASE I BOOK EXPLOITATION SOV/3931

Issledovaniya po sovremennym problemam teorii funktsiy kompleksnogo peremennogo; sbornik statey (Investigation of Modern Problems in the Theory of Complex Variables; Collection of Articles) Moscow, Fizmatgiz, 1960. 544 p. 3,000 copies printed.

Ed. (Title page): A. I. Markushevich; Eds. (Inside book): V. S. Vilenskiy and S. Ya. Khavinson; Tech. Ed.: N. Ya. Murashova.

PURPOSE: This book is intended for specialists in the theory of functions of a complex variable. It may also be used by advanced university students, scientific workers, and specialists in other fields of mathematics.

COVERAGE: The book contains 48 papers originally read at the Third All-Union Conference on the Theory of Functions of a Complex Variable held at Moscow University from May 28 to June 2 1957. The articles treat problems in the modern theory of functions and its applications. The book is divided into 7 parts. The first part discusses the problem of monogeneity, power series, boundary and extremal properties. The second part discusses entire functions and interpolation and approximation problems. The third part discusses functions of many complex variables. The fourth part [illegible] conformal mappings and boundary-value problems. The [illegible] Riemann surfaces and the theory of distribution [illegible] discusses generalized analytic function[illegible] miscellaneous problem[illegible] [illegible]

PART III

Fuks, B. A. (Moscow). On the Kernel Functions of a Region 287

Fuks, B. A. (Moscow). Stereographic Projection in a Space of n-Complex Variables and Some of Its Applications 294

Ivanov, V. K. (Sverdlovsk). On the Characteristics of the Growth of Entire Functions of Many Complex Variables 301

Yeremin, S. A. (Kuybyshev). On Complete Systems and Bases in Spaces of Analytic Functions of Many Complex Variables 305

Yeremin, S. A. (Kuybyshev) On the Solutions of One Type of Differential Equations Connected With Entire Functions of Two Complex Variables 316

PART IV

Gakhov, F. D., and I. M. Mel'nik (Rostov-na-Donu). On Contour Singularities in the Converse Boundary Value Problem of the Theory of Analytic Functions 324

Andrianov, S. N. (Kazan'). On the Conformal Mapping of a Multivalent Region on a Circle 332

Aksent'yev, L. A. (Kazan'). Univalent Variation of a Dam Profile 335

Gakhov, F. D., and E. G. Khasabov (Rostov-na-Donu). On Hilbert's Boundary Value Problem for a Multiconnected Region 340

Gagua, M. B. (Tbilisi). On a Certain Application of Cauchy-Type Multiple Integrals 345

Lambin, N. V. (Minsk). On One Method of Constructing Piece-Wise Analytic Functions Connected With Filtration Theory 353

Batyrev, A. V. (Rostov-na-Donu). Conformal Mapping of Close Regions 358

Mandzhavidze, G. F. (Tbilisi). Approximate Solution of Boundary Value Problems of the Theory of Analytic Functions 363

Vil'mar, I. A. (Moscow). Problems of the Nomographic Interpretation of a Function of a Complex Variable and the Cauchy Problem 371

PART V

GAGUA, M.B.; TSULAIDZE, M.G.

Numerical solution of a Dirichlet problem. Soob.AN Gruz.SSR no.5:513-518 My '60. (MIRA 13:8)

1. Vychislitel'nyy tsentr AN GruzSSR. Predstavleno chlenomkorrespondentom Akademii Sh.Ye.Mikeladze.
(Differential equations, Partial)

32889

S/044/61/000/012/045/054
C111/C222

16.6500

AUTHOR: Gagua, M. B.

TITLE: On the numerical solution of the equation $y' = f(x,y)$

PERIODICAL: Referativnyy zhurnal, Matematika, no. 12, 1961, 44, abstract 12V268. ("Tr. Vychisl. tsentra. AN Gruz SSR", 1960, 1, 211-213)

TEXT: Suggested is a method for the numerical integration of the equation $y' = f(x,y)$. Let x_i, y_i, x_{i+1} be given. Then y_{i+1} is calculated by integrating $f(x,y)$ from x_i to x_{i+1} according to the trapezoidal method. Instead of $f(x_{i+1}, y_{i+1})$, the Taylor-expansion up to the second-order terms of $(y - y_i)$ is taken; a quadratic equation in y_{i+1} results, which is solved. The formula is of the third order with respect to h_i (one can also get the fourth order etc.). It is pointed out that the knots located before x_i are not used in the calculation of y_{i+1}.

[Abstracter's note: Complete translation.]

Card 1/1

32888

S/044/61/000/012/044/054
C111/C222

16.6500

AUTHOR: Gagua, M.

TITLE: On numerical solutions of the equation $y' = f(x,y)$

PERIODICAL: Referativnyy zhurnal, Matematika, no. 12, 1961, 44, abstract 12V267. ("Tr. Vses. soveshchaniya po vychisl. matem. i primeneniyn sredstv vychisl. tekhn.", Baku, AN Azerb SSR, 1961, 94-97)

TEXT: The author expands the function $f(x,y)$ in the vicinity of the point y_i (where as usual $y_i = y(x_i)$) into a Taylor-series, its remainder being small of the third order. He then integrates the equation $y'=f(x,y)$ on the interval from x_i to x_{i+1}, and, using the trapezoidal formula, obtains for the solution of the differential equation a formula containing $f'_y(x,y)$. In cases where f'_y can easily be determined, this formula has the advantage over the known formulas in that y_{i+1} is directly expressed by y_i. An estimation is given for the accumulation of approximational errors. No examples.
[Abstracter's note: Complete translation.]
Card 1/1

34596
S/044/62/000/001/048/061
C111/C222

16.6500 16.3500

AUTHORS: Gagua, M. B., Tsuladze, M. G.

TITLE: On the numeric solution of the Dirichlet problem

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1962, 31-32, abstract 1V150. ("Soobshch. AN Gruz SSR", 1960, 24, no. 5, 513-518)

TEXT: The Dirichlet problem for the equation

$$M_p U(P) - \lambda L_p U(P) = f(P), \quad P \in \Omega \qquad (1)$$

is solved, where Ω is a given finite domain in n-dimensional Euclidian space, Γ is the boundary of Ω and λ a parameter, complex in general,

$i_1 + i_2 + \dots + i_n = m$

$$M_p u(P) = \sum_{0 \le i_1, \dots, i_n \le m} a_{i_1, i_2, \dots i_n}(P) \frac{\partial^m u(x_1, \dots x_n)}{\partial x_1^{i_1} \dots \partial x_n^{i_n}}, \quad P \in \Omega$$

Card 1/6

On the numeric solution of the ...

$$k_1 + k_2 + \ldots + k_n = j \leq m-1$$

$$L_p u(P) = \sum_{0 \leq k_1, \ldots, k_n \leq m-1} b_{k_1 \ldots k_n}(P) \frac{\partial^{k_1 + \ldots + k_n} u(x_1, \ldots x_n)}{\partial x_1^{k_1} \ldots \partial x_n^{k_n}} \quad , \quad P \in \Omega \qquad (1)$$

with the homogeneous boundary condition

$$U|_\Gamma = 0 \, . \qquad (2)$$

Assuming that there exists a Green's function $G(P,Q)$ for the equation $M_p U(P) = f(P)$ in Ω, which corresponds to (2) and fulfills the conditions

$$k = \sup_{P \in \Omega} \left| \int_\Omega L_Q G(P,Q) \, dQ \right| < +\infty \, ,$$

Card 2/6

S/044/62/000/001/048/061
C111/C222

On the numeric solution of the . . .

$$L_p \int_\Omega G(P,Q)\, dQ = \int_\Omega L_p\, G(P,Q)\, dQ$$

then the problem (1), (2) is equivalent to the integro-differential equation

$$U(P) = \int_\Omega G(P,Q) \left[f(Q) + \lambda L_Q U(Q) \right] dQ, \quad P \in \Omega$$

The solution of this for λ satisfying

$$|\lambda|\, k = |\lambda| \sup_{P \in \Omega} \left| \int_\Omega L_Q\, G(P,Q)\, dQ \right| = q < 1$$

is given by the Piccard series

$$U(P) = \int_\Omega G(P,Q)\, f(Q)\, dQ + \lambda \int_\Omega G(P,Q)\, dQ \times$$

$$\times \int_\Omega L_{Q_1}\, G(Q, Q_1)\, f(Q_1)\, dQ_1 + \ldots + \lambda^n \int_\Omega G(P,Q)\, dQ \times$$

Card 3/6

On the numeric solution of the

$$\times \int_{\Omega} L_{Q_1} G(Q\ Q_1)\, dQ_1 \cdots dQ_{n-1} \times$$

$$\times \int_{\Omega} L_{Q_{n-1}} G(Q_{n-1}\ Q_n)\, f(Q_n)\, dQ_n + \cdots$$

(Goursat, Cours d'analyse. Bd. 3). The authors start with the construction of this series and write the following recurrence equations in $P \in \Omega$

$$U_0(P) = \int_{\Omega} G(P\ Q)\, f(Q)\, dQ,$$

$$U_n(P) = \lambda \int_{\Omega} G(P\ Q)\, L_Q U_{n-1}(Q)\, dQ \quad (n = 1, 2, \ldots) \qquad (3)$$

$$S_n(P) = \int_{\Omega} G(P\ Q)\, f(Q)\, dQ.$$

Card 4/6

On the numeric solution of the . . .

$$S_n(P) = \int_{\Omega} G(P,Q) \left[f(Q) + \lambda L_Q S_{n-1}(Q) \right] dQ \quad (n=1,2,\ldots) .$$

To solve the problem (1), (2) numerically, an arbitrary sequence of nodes P_i $(i=1,2,\ldots, N;\ N = 1,2,\ldots)$ in Ω is taken. The operator M_p is applied to both sides of (3), and in the resulting equations, the differential operators M_p and L_p in the given points are replaced by their difference-analogues $\bar{M}_{pi}$ and $\bar{L}_{pi}$. It is proven that for each fixed n and N the resulting system of linear algebraic equations

$$\bar{M}_{pl} U^*_{oN}(P_l) = f(P_l), \ (l = 1, 2, \ldots, N),$$
$$\bar{M}_{pl} U^*_{nN}(P_l) = \lambda \bar{L}_{pl} U^*_{n-1,N}(P_l) \ (n=1,2,\ldots; l=1,2,\ldots,N),$$
$$\bar{M}_{pl} S^*_{oN}(P_l) = f(P_l), \ (l = 1, 2, \ldots, N),$$
$$\bar{M}_{pl} S^*_{nN}(P_l) = f(P_l) + \lambda \bar{L}_{pl} S^*_{n-1,N}(P_l)$$
$$(n = 1, 2, \ldots; l = 1, 2, \ldots, N).$$

Card 5/6

S/044/62/000/001/048/061
C111/C222

On the numeric solution of the . . .

with N unknowns $U^{*}_{nN}(P_i)$ and $S^{*}_{nN}(P_i)$ (n = 1,2,...; i = 1,2,...,N; N=1,2, ...) is stable under certain assumptions regarding the free terms $f(P_i)$(i=1,2,..., N). The convergence to the solution of problem (1), (2) is proven.

[Abstracter's note: Complete translation.]

Card 6/6

GAGUA, M.B.

Approximate solution of linear equations by Picard's method.
Trudy Vych.tsentra AN Gruz.SSR 2:17-19 '62. (MIRA 16:1)
(Linear equations)

ACC NR: AR6027467 SOURCE CODE: UR/0044/66/000/005/B100/B100

AUTHOR: Gagua, M. B.

TITLE: The numerical solution of ordinary differential equations

SOURCE: Ref. zh. Matematika, Abs. 5B528

REF SOURCE: Tr. Vychisl. tsentra. AN GruzSSR, v. 6, no. 3, 1965, 10-22

TOPIC TAGS: ordinary differential equation, numeric solution, linear differential equation, approximate solution

ABSTRACT: Let the solution of the equation

$$Ly \equiv \sum_{i=0}^{n} a_i(x)\, y^{(i)}(x) - f(x) = 0;\ a_n(x) \equiv 1,\ y^{(i)} = \frac{d^i y}{dx^i},$$

with the initial conditions $y^{(i)}(a) = b_i$ over a certain interval (a, b) be written in the form

$$y(x) = \int_a^x dt_1 \int_a^{t_1} \dots \int_a^{t_{n-1}} y^{(n)}(\tau)\, d\tau + \sum_{i=0}^{n-1} \frac{y^{(i)}(a)}{i!} (x-a)^i.$$

The author investigates sequences of the form

$$y_m(x) = \int_a^x dt_1 \int_a^{t_1} \dots \int_a^{t_{n-1}} P_m(\tau)\, d\tau + \sum_{i=0}^{n-1} \frac{y^{(i)}(a)}{i!} (x-a)^i.$$

Card 1/2 UDC: 518:517.91/.94

ACC NR: AR6027467

where $\left\{\rho_m(x)=\sum_{i=1}^{m} c_i\psi_i(x)\right\}$ $(m=1, 2, 3, \ldots)$.

is a set of generalized polynomials where c_i are constants, and $\psi_i(x)$, functions. Under specified conditions the author investigates by means of the newly introduced sequences the question of the approximate solution and the questions concerning certain numerical characteristics of these solutions. The coefficients c_i are determined from the system of linear algebraic equations

$$l_{jm}(Ly_m(x))=0,\ j=1, 2, \ldots, m;\ m=1, 2, \ldots,$$

where $l_{jm}(y)$ is a certain given system of linear functionals. The set of linear algebraic equations presented by the author is a generalization of systems found earlier in literature. [Translation of abstract] Ya. Alikhashkin

SUB CODE: 12

Card 2/2

ACC NR: AR6027184 SOURCE CODE: UR/0271/66/000/005/B003/B003

AUTHOR: Gagua, M. B.

TITLE: Error estimation

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs. 5B21

REF SOURCE: Tr. Vychisl. tsentra. AN GruzSSR, v. 6, no. 3, 1965, 23-38

TOPIC TAGS: computer calculation, algorithmic language, digital computer, algorithm

ABSTRACT: The theoretical problem of estimating errors in the final results of computations conducted with standard working formulas is discussed. A structural description and a classification of mathematical functions to be computed are given. A function to be computed is defined as a function which is obtained by algorithmic representation. It is shown that an approximate computation of a certain function, which requires a finite number of arguments, can be reduced to the computation of a function whose values are rational numbers by means of a finite number of approximation operations. This function is given by a system of Boolean functions defined over Boolean vector-spaces of finite dimensions. It can be processed on a digital computer. Problems are also considered dealing with the estimate of rounding off errors which occur when the initial representations, used in the algorithm, are replaced by corresponding pseudo-operations (e.g., in processing the algorithm when simple arithmetic operations are used as the initial representations). [Translation of abstract]

Bibliography of 6 titles. I. Sh.

Card 1/1 SUB CODE: 12,09 UDC: 681.142.81:681.142.82

ACC NR: AT6034955 SOURCE CODE: UR/2774/65/006/003/0010/0022

AUTHOR: Gagua, M. B.

ORG: none

TITLE: On the numerical solution of ordinary differential equations

SOURCE: AN GruzSSR. Vychisletel'nyy tsentr. Trudy, v. 6, no. 3, 1965. Voprosy teorii funktsiy (Problems in the theory of functions), 10-22

TOPIC TAGS: numeric solution, ordinary differential equation, Cauchy problem, sequence, minimization, approximation convergence, algebraic equation, mathematic space

ABSTRACT: This paper examines the solution (in an interval (a,b)) of the Cauchy problem for the equation

$$Ly \equiv \sum_{i=0}^{n} a_i(x) y^{(i)}(x) - f(x) = 0, \quad (a_n(x) \equiv 1, y^0 = y,$$

$$\frac{d^i y}{dx^i} = y^{(i)} \quad (i = 0, 1, \ldots n-1),$$

where $a_i(x)$ (i = 1, 2, ..., n) and $f(x)$ are given coefficients and $y(x)$ is a solution which satisfies the initial conditions $y^{(i)}(a) = b_i$ $(i = 0, 1, \ldots, n-1)$,

Card 1/2

ACC NR: AT6034955

while n is an arbitrarily fixed natural number. The solution $y(x)$ is represented as

$$y(x) = \int_a^x dt_1 \int_a^{t_1} \dots \int_a^{t_{n-1}} y^{(n)}(\tau)\,d\tau + \sum_{i=0}^{n-1} \frac{y^{(i)}(a)}{i!}(x-a)^i,$$

where $y^{(n)}(x)$ belongs to some linear normalized space $\mathfrak{M}^1$. The problem of determining approximately the various numerical characteristics of $y(x)$ is examined with the aid of the sequences

$$y_m(x) = \int_a^x dt_1 \dots dt_{n-1} \int_a^{t_{n-1}} P_m(\tau)\,d\tau + \sum_{i=0}^{n-1} \frac{y^{(i)}(a)}{i!}(x-a)^i \quad (m = 1, 2, \dots),$$

where the coefficients c_i ($i = 1, 2, \dots, m$) are determined from the system of linear algebraic equations

$$l_j(Ly_m(x)) = 0 \quad (j = 1, 2, \dots m, \ m = 1, 2, \dots).$$

An optimal standard working formula is sought on the basis of a variational problem. Orig. art. has: 45 formulas.

SUB CODE: 12/ SUBM DATE: none/ ORIG REF: 006

Card 2/2

USSR/Mathematics - Approximations 1950

"Approximations of Continuous Functions by Special Solutions of Elliptic Differential Equations," M. Ye. Gagua, Math Inst imeni Razmadze, Tbilisi, Acad Sci Georgian SSR

"Soob Ak Nauk Gruz SSR" Vol XI, No 4, pp 211-214

Demonstrates the theorem concerning the possibility of uniform approximations of function $f(x,y)$, continuous in a closed bounded set E of planes, by linear combinations of certain special solns of a differential eq of the elliptic type. This theorem

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USSR/Mathematics - Approximations (Contd) 1950

is analogous to the familiar theorems of M. A. Lavrent'yev and I. L. Walsh ("Interpolation and Approximation by Rational Functions in the Complex Domain," New York, 1935). Submitted 14 Apr 50.

LC 192T61

GAGUA, M. YE.

GAGUA, M. YE.

USSR/Mathematics - Approximation 1 Sep 52

"Problem of the Best Approximation for the Solutions of Elliptic-Type Differential Equations," M. Ye. Gagua

"Dok Ak Nauk SSSR" Vol 86, No 1, pp 7-10

Generalizes the works of J. Walsch, W. Sewell, and H. Elliott (Trans Am Math Soc, 1949-50), on the problem of the best approximation for harmonic functions by means of harmonic polynomials, to the soln of certain elliptical-type differential eqs: $Du + a(x,y)u_x + b(x,y)u_y + c(x,y)u = 0$, where D is the Laplace operator. Cites his earlier work in "Soobshcheniya Ak Nauk Gruz SSR (Communications of Acad Sci Georgian SSR), 10, No 8, 1949. Submitted by Acad M. A. Lavrent'yev 28 Jun 52.

234T78

234T78

GAGUA, M.

235T78

USSR/Mathematics - Approximation 11 Sep 52

"Evaluations of Optimum Approximations of Solutions of Certain Differential Equations of the Elliptic Type," M. Gagua

"Dok Ak Nauk SSSR" Vol 86, No 2, pp 225-228

Generalizes certain results (S. N. Mergelyan, "Trudy Matem at Inst," 37, 1951) for solns of differential eqs of the elliptic type. Considers the eq $\Delta u + a(x,y)u_x + b(x,y)u_y + c(x,y)u = 0$, where delta is the Laplace operator and a, b, and c are given real integral (entire) functions of real arguments x and y. Establishes a number of theorems. Submitted by Acad M. A. Lavrent'yev 18 Jun 52.

235T78

235T78

GAGUA, M.Ye.

Calculation of values in Bessel functions of the first kind.
Soob.AN Gruz.SSR 14 no.8:455-458 '53. (MLRA 7:5)

1. Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut im. A.M.Razmadze. Predstavleno chlenom-korrespondentom Akademii Sh.Ye.Mikeladze. (Bessel's functions)

GAGUA, M. Ye.

USSR/Mathematics - Approximation

Card 1/1

Author : Gagua, M. Ye.

Title : Certain problems of uniform approximation of solutions of differential equations of the elliptic type

Periodical : Izv. AN SSSR, Ser. mat. 18, 177-184, Mar/Apr 1954

Abstract : Gives certain generalizations of one theorem by N. I. Vekua (Novyye metody resheniya ellipticheskikh uravneniy [New methods for solution of elliptic equations], Moscow/Leningrad, 1948), concerning uniform approximation in closed regions of solutions of differential equations of the elliptic type. Five references: 4 USSR.

Submitted : December 11, 1952

GAGUA, M

USSR/Mathematics - A method of convergence

Card 1/1 Pub. 22 - 2/53

Authors : Gagua, M.

Title : On the convergence of the Garelkin method

Periodical : Dok. AN SSSR 102/4, 665-668, June 1, 1955

Abstract : A general scheme of judging an error in an approximate solution of differential equations by the Garelkin method is presented. Four USSR references (1948-1954).

Institution : The Acad. of Sc., Georg. SSR, A. N. Ramadze Mathematical Institute, Tiblisi

Presented by: Academician N. I. Muskhelishvili, March 8, 1955

Gagua, M.

Gagua, M. On approximate solution of linear boundary problems for elliptic equations. Dokl. Akad. Nauk SSSR (N.S.) 102 (1955), 1061–1064. (Russian)
This paper applies the method of Galerkin as expounded in the paper reviewed above. *A. S. Householder.*

1 - F/W

MS

LYAMINA, G.M.; GAGUA, N.I.

Development of correct pronunciation in children from one and a half to three years old. Vop. psikhol. 9 no.6:93-105 N-D '63. (MIRA 17:4)

1. Institut pediatrii AMN SSSR, Moskva.

LYAMINA, G.M.; GAGUA, N.P.

Characteristics of speech reactions in children during the third year of life. Vop. psikhol. 8 no.3:155-166 My-Je '62. (MIRA 15:6)

1. Otdel razvitiya Instituta pediatrii AMN SSSR, Moskva.
(Children--Language)

GAGUA T. A.

89-3-14/30

AUTHORS: Gverdtsiteli, I. G. , Gagua, T. A. , Nikolayev, Yu. V.

TITLE: The Enrichment Factors for Chlorine and Sulfur Isotopes in Liquid-Vapor Equilibria for Cl_2, HCl, CH_3Cl, H_2S, SO_2
(Koeffitsiyenty obogashcheniya izotopov khlora i sery pri ravnovesii zhidkost' - par dlya Cl_2, HCl, CH_3Cl, H_2S, SO_2)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 3, pp. 294 - 296 (USSR)

ABSTRACT: First the rectifying column is shortly described. The separation of chlorine isotopes was carried out by means of a column with a length of 1,5 m. The rectification of HCl took place at -88°C. The maximum separation factor Φ to be obtained was 1,08 ± 0,01. It was calculated from the equation:

$$\Phi = \frac{N}{1-N} : \frac{N_o}{1-N_o}$$

where N and N_o denote the normal shares of light isotopes at the end of the column and in the initial mixture. Cl_2 was rectified at -36°C. At the maximum a value of 1,05 ± 0,01

Card 1/2

89-3-14/30

The Enrichment Factors for Chlorine and Sulfur Isotopes in Liquid-Vapor Equilibria for Cl_2, HCl, CH_3Cl, H_2S, SO_2

can be reached for Φ .
The rectification of H_2S and SO_2 was carried out by means of a column with a length of 1 m.
H_2S was rectified at -60°C and a maximum separation coefficient of 1,1 was reached.
BF_3 was used for the calibration of the columns. There are 3 figures, 1 table, and 1 reference, 1 of which is Slavic.

SUBMITTED: July 8, 1957

AVAILABLE: Library of Congress

1. Chlorine isotopes-Separation 2. Sulfur isotopes-Separation-Mathematical analysis

Card 2/2

GAGUA, T.A.

PHASE I BOOK EXPLOITATION SOV/1297

Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i nauke, Moscow, 1957

Primeneniye izotopov. Nauchnyye osnovy radiometriya i defektoskopii; trudy konferentsii... (Isotope Production. High-energy Gamma-Radiation Facilities. Radiometry and Dosimetry; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science) Moscow, Izd-vo AN SSSR, 1958. 293 p. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR; Glavnoye upravleniye po ispol'zovaniyu atomnoy energii SSSR.

Editorial Board: Frolov, Yu.S. (Resp. Ed.), Zhavoronkov, N.M. (Deputy Resp. Ed.), Aglintsev, K.K., Alekseyev, B.A., Bochkarev, V.V., Lebedinskiy, N.I., Malkov, T.P., Sinitsyn, V.I., and Popov, G.I. (Secretary); Tech. Ed.: Novichkov, M.D.

PURPOSE: This collection is published for scientists, technologists, persons engaged in medicine or medical research, and others concerned with the production and/or use of radioactive and stable isotopes and radiation.

COVERAGE: Thirty-eight reports are included in this collection under three main subject divisions: 1) production of isotopes 2) high-energy gamma-radiation facilities, and 3) radiometry and dosimetry.

TABLE OF CONTENTS:

PART I. PRODUCTION OF ISOTOPES

Frolov, Yu.S., V.V. Boshnyak, and Ye.Ye. Kulish. Development of Isotope Production in the Soviet Union 5
This report is a general survey of production methods, apparatus, raw materials, applications, investigations and future prospects for radio isotopes in the Soviet Union.

Card 2/12

Kruglenfords, Yu.K., G.G. Zivert, and T.A. Gagua. A Rectification Column for Obtaining H_2^3, Enriched With Isotope B^{10} 127
A method is described for enriching natural mixtures containing ~18.6 percent B^{10} concentration to ~80 percent B^{10} concentration by low temperature (~ - 100 degrees, scale not stated) adiabatic rectification. Separation capacity was B^{10} of 95-96 percent purity after 480 hours processing; but, as the desired concentration was ~80 percent, separation yield was 4 liters per 24 hours. Block diagrams of installations are given.

Zhavoronkov, N.M., O.V. Uvarov, and S.I. Babkov. Research on the Separation of Stable Isotopes of Light Elements 134

Yunitskiy, B.B., G.G. Zavyatykh, M.V. Tikhomirov, A.D. Zorin, and N.I. Nikolayev. Separation of Carbon Isotopes 183

Card 6/12

GAGUA, V.F.

Effect of the threshold intensity of the Campbell-Stokes recorder and the method of processing its tapes for the duration of sunshine. Trudy GGO no.169:11-14 '65. (MIRA 18:8)

GAGULASHVILI, A.D.; MAISAYA, V.R.

Treating traumatic edema of the brain with novocaine. Soob. AN Gruz. SSR 27 no.4:491-496 O '61. (MIRA 15:1)

1. Ministerstvo Zdravookhraneniya Gruzinskoy SSR, Nauchno-issledovatel'skiy institut travmatologii i ortopedii, Tbilisi. Predstavleno chlenom-korrespondentom AN Gruzinskoy SSR A.N. Bakuradze.

(NOVOCAINE--THERAPEUTIC USE)
(BRAIN--DISEASES)
(EDEMA)

GVERDTSITELI, I. G.; NIKOLAYEV, Yu. V.; GAGUA, T. A.

"Commercial production of stable isotopes."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

KAKUTANI, V. V.; GACHILASHVILI, A. D.; TSANAVA, G. M.

Clinical aspects and treatment of a pelvic fracture. Soob. AN Gruz. SSR 30 no.3:367-372 Mr '63. (MIRA 17:6)

1. Tbilisskiy gosudarstvennyy institut usovershenstvovaniya vrachey i Bol'nitsa skoroy pomoshchi, Tbilisi. Predstavleno akademikom K.D. Eristavi.

L 37691-66 EWT(m)/T WW/DJ
ACC NR: AP6021821 (A,N) SOURCE CODE: UR/0413/66/000/012/0113/0114

INVENTOR: Sokolov, Yu. A.; Gagua, V. D.; Khrushchevskiy, A. M.

ORG: none

TITLE: Sliding bearing. Class 47, No. 182969 [announced by Central Scientific-Research Diesel Institute (Tsentral'nyy nauchno-issledovatel'skiy dizel'nyy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 113-114

TOPIC TAGS: bearing, sliding bearing

ABSTRACT: This Author Certificate introduces a sliding bearing consisting of a housing and a floating bushing with v-shaped indentations on their inner surfaces.

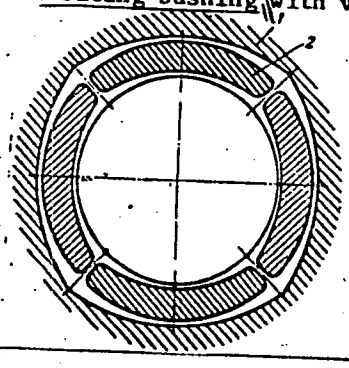

Fig. 1. Sliding bearing

1 - Bearing housing; 2 - bushing.

Card 1/2 UDC: 621.822.5