

I. 08/43-67 EWT(1) JK
ACC NR: AP6034517

SOURCE CODE: UR/0016/66/000/010/0020/0024

AUTHOR: Shamrayeva, S. A.; Shemanova, G. F.; Vlasova, Ya. V. 12

ORG: none

TITLE: Role of lecithinase in the toxic effect of Clostridium perfringens on tissue cultures

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 10, 1966, 20-24

TOPIC TAGS: ~~environment, microorganisms~~; Clostridium perfringens, lecithinase, toxin, toxin effect, tissue culture, ~~Tissue Physiology~~

ABSTRACT: The effects of whole Clostridium perfringens toxin¹⁰ and serologically pure lecithinase (alpha-lethal factor) on sensitive tissue cultures were studied. The effect of both preparations was identical, suggesting that lecithinase is the principal cytotoxic component of the toxin. Results varied according to the sensitivity of the test culture. Orig. art. has: 3 tables. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 18Nov65/ ORIG REF: 002/ OTH REF: 002

UDC: 576.851.555.097.29.098.3:577.153.211.
578.085.23

Card 1/1 ho

ACC NR: AP6024438

SOURCE CODE: UR/0016/66/000/007/0052/0054

AUTHOR: Shemanova, G. F.; Vlasova, Ye. V.; Shamrayeva, S. A.

ORG: Institute of Epidemiology and Microbiology im. Gamaleya, AMN SSSR, Moscow
(Institut epidemiologii i mikrobiologii AMN SSSR)

TITLE: Obtaining highly purified *Clostridium oedematiens* toxoids

SOURCE: Zhurnal mikrobiologii, epidemiologii, i immunobiologii, no. 7, 1966, 52-54

TOPIC TAGS: toxoid, chromatography, gel filtration serology, Lyophilization, **TOXIN**,
SEBUM, **CHEMICAL PRECIPITATION**

ABSTRACT: The techniques of acid precipitation at the isoelectric point, ammonium sulfate fractionation chromatography, and gel-filtration were used to prepare a highly purified, serologically active preparation. Lyophilized toxoid retained its solubility and initial activity after being stored for one year. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: 190ct65/ ORIG REF: 005/ OTH REF: 001/

Card 1/1

UDC: 615.372:576.851.5551-012

VLASOVA, Ye.V.

White mice as model for the determination of immunogenic properties of Clostridium sordelli anatoxins. Zhur. mikrobiol., epid. i immun. 42 no.12:113-117 D '65.
(MIRA 19:1)

1. Institut epidemiologii i mikrobiologii imeni Gamalei
AMN SSSR.

SHEMANOVA, G.F.; VLASOVA, Ye.V.; TSVETKOV, V.S.

Isolation and characteristics of purified lecithinase C of
Clostridium perfringens. Biokhimia 30 no.4:739-742 Jl-Ag '65.
(MIRA 18:8)

1. Otdel ranevykh infektsiy Instituta ep'demicheskoj i
mikrobiologii imeni N.F. Gamalei AMN SSSR, Moskva.

L 3390-66 EWT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: AP5021651

UR/0218/65/030/004/0739/0742

30

27

8

AUTHOR: Shemanova G. F.; Vlasova, Ye. V.; Tsvetkov, V. S.

44, 55 577.153.2

655

TITLE: Isolation and properties of purified lecithinase C from Clostridium perfringens.

SOURCE: Biokhimiya, v. 30, no. 4, 1965, 739-742

44

TOPIC TAGS: toxicology, ammonium sulfate, fungus, biologic antigen

ABSTRACT: The first stage of purification of lecithinase C was carried out by saturation of the mother liquor of the culture with ammonium sulfate. The albumen film formed was removed, centrifuged, and dialyzed for two days. The toxin was concentrated further by precipitation with acid at the isodielectric point under salting out conditions. The yield of lecithinase was approximately 70% with an increase in specific activity of 2-3 times. In addition to the specific activity, the degree of purification was estimated from the decrease in the number of antigen fractions determined by microprecipitation in agar. Subsequent precipitation of the preparation with 25% ammonium sulfate freed the lecithinase from a considerable part of the corresponding antigens. After purification of the lecithinase by
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L 3390-66

ACCESSION NR: AP5021651

sorption of the inert albumens from a 0.05 molar acetate buffer solution (pH 5.6) on DEAE cellulose, the lecithinase contains only one antigen which appears to be an alkali proteinase. The activity of the lecithinase was found to be 12,000 - 15,000 lethal units per mg, determined on white mice. The preparation of lecithinase is serologically homogeneous and is also homogeneous under ultracentrifuging. Orig. art. has: 2 figures

ASSOCIATION: Otdel ranevykh infektsiy, Institut epidemiologii i microbiologii im N. F. Gamalei Akademii meditsinskikh nauk SSSR, Moscow (Department of Wound Infections, Institute of Epidemiology and Microbiology, Academy of Medical Sciences of the SSSR)

SUBMITTED: 03Oct64

ENCL: 00

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NR REF SOV: 007

OTHER: 005

Card 2/2 md

MAYOROVA, I.P.; VLASOVA, Ye.V.; ORLOVA, N.G.

Rôle of peptides in the formation of toxins by Clostridium
oedematiens. Zhur.mikrobiol., epid. i immun. 42 no.2:95-99
F 165. (MIRA 18:6)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

SHEMANOVA, G.F.; VIASOVA, Ye.V.; SHAMRAYEVA, S.A.

Action of proteinases of Clostridium cecematiens and Clostridium perfringens on homologous and heterologous toxins. Biul. eksp. biol. i med. 57 no.4:80-83 Ap '64. (MIRA 18:3)

1. Otdel ranevykh infektsiy Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, Moskva. Submitted March 20, 1963.

VLASOVA, Ye.V.; SOLOW'YEVA, N.I.; Prinimala uchastiye PASHINSKAYA, L.D.

A simple method for the production of a highly active collagenase preparation. Vop. med. Khim. 8 no.4:424-428 71-Ag 162.

(MIRA 17:11)

I. Laboratoriya biokhimii i khimicheskoy patologii telkov Instituta biologicheskoy i meditsinskoy khimii AMN SSSR i otdel ranneykh infektsiy Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, Moskva.

VLASOVA, Ye.V.; KUZ'MINA, A.P.

Immunological characteristics of the purified and concentrated
anatoxin of Clostridium sordelli. Report No. 2. Zhur.mikrobiol.,
epid. i imm. 41 no. 2:76-80 F '64. (MIRA 17:9)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

YEFIMOV, A.F.; KRAVCHENKO, S.M.; VLASOVA, Ye.V.

Mineralogy of alkali pegmatites of the Inagli massif. Trudy
IMGRE no.16:141-175 '63. (MIRA 16:8)

VLASOVA, Yekaterina Vasil'yevna; ALEKSANDROVA, N., red.; BEYSHENOV,A.,
tekhn. red.

[We are raising standards of agriculture] Povyshaem kul'-
turu zemledeliia. Frunze, Kirgizgosizdat, 1963. 23 p.
(MIRA 17:2)

1. Kolkhoz imeni Engel'sa Kalininskogo kolkhozno-sovkhoznogo
proizvodstvennogo upravleniya (for Vlasova).

KRAVCHENKO, Svet Moiseyevich; VLASOVA, Yelena Vladimirovna; LEONT'YEV, L.N.,
doktor geol.-mineral.nauk, otd.red.; VLASOV, K.A., glavnny red.;
VERSTAK, G.V., red.izd-va; PRUSAKOVA, T.A., tekhn.red.

[Alkali rocks in the central Aldan] Shchelochnye porody Tsentral'nogo
Aldana. Moskva, Izd-vo Akad. nauk SSSR, 1962. 188 p. (Akademia.
nauk SSSR. Institut mineralogii, geokhimii i kristallogimii redkikh
elementov. Trudy, no.14). (MIRA 16:5)

1. Chlen-korrespondent AN SSSR (for Vlasov).
(Aldan Plateau—Rocks, Igneous)
(Aldan Plateau—Trace elements)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0

KRAVCHENKO, S.M.; VLASOVA, Ye.V.

Characteristics of the distribution of accessory minerals
in alkali rocks of the Mesozoic magmatic complex in the
central Aldan. Krat. soob. IMGRE no.1:26-29 '60.
(MIRA 17:3)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0"

KRAVCHENKO, S.M.; VLASOVA, Ye.V.; KAZAKOVA, M.Ye.; ILYUKHIN, V.V.;
ABRASHEV, K.K.

Innelite, a new barium silicate. Dokl. AN SSSR 141 no. 5:1198-1199
(MIRA 14:12)
D '61.

1. Institut mineralogii, geokhimii i kristallokhimii redkikh
elementov AN SSSR. Predstavлено академиком N.V. Belovym.
(Yakutia--Barium silicates)
(Minerals)

VLASOV, Ye. V.

31

PHASE I BOOK EXPLOITATION

807/5740

Akademiya nauk SSSR. Institut mineralogii, geokhimii i kristallogimii redkikh elementov

Voprosy mineralogii, geokhimii i genetika mestorozshchini redkikh elementov
(Problems in Mineralogy, Geochemistry, and Deposit Formation of Rare Elements)
Moscow, Izd-vo AN SSSR, 1960. 253 p. (Series: Its: Trudy, vyp. 4) Errata
printed on the inside of back cover. 2,200 copies printed.

Chief Ed.: K. A. Vlasov, Corresponding Member, Academy of Sciences USSR;
Resp. Ed.: V. V. Lyakhovich; Ed. of Publishing House: L. S. Tarasov;
Tech. Ed.: P. S. Kashina.

PURPOSE: This book is intended for geologists, mineralogists, and petrographers.

COVERAGE: This is a collection of 23 articles on the formation, geology,
mineralogy, petrography, and geochemistry of deposits of rare elements in
Siberia and [Soviet] Central Asia. The distribution and characteristics of
rare elements found in these areas as well as some quantitative and qualitat-
ive methods of investigating the rocks and minerals in which they are found,

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Problems in Mineralogy (Cont.)

SC7/5740

or with which they are associated, are discussed. Two articles present an economic investigation of the possibilities of industrial extraction and utilization of selenium, tellurium, and hafnium. No personalities are mentioned. Each article is accompanied by references.

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31

Problems in Mineralogy (Cont.)

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53

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Zhabin, A. G. On the Separation Time of the Minerals Niobium, Zirconium, and the Rare Earths in the Granite Pegmatite of the Blyuzovskaya Mine

74

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85

Korkin, V. I., Yu. A. Pyatenko, and A. V. Bykova. On Britholite of the Alkaline Rocks of Southwestern Tula

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31

Problems in Mineralogy (Cont.)

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Problems in Mineralogy (Cont.)

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31

Problems in Mineralogy (Cont.)

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246

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JA/dm/rms
11-14-61

KRAVCHENKO, S.M.; VIASOVA, Ye.V.; PINEVICH, N.G.

The new mineral batisite. Dokl.AN SSSR 133 no.3:657-660
(MIRA 13:7)
J1 '60.

1. Institut mineralogii, geokhimii i kristallokhimii redkikh
elementov Akademii nauk SSSR. Predstavleno akad. N.V.Belovym.
(Aldan Plateau—Silicates)

ISPOLATOVSKAYA, M.V.; BLAGOVESHCHENSKIY, V.A.; VLASOVA, Ye.V.; KUZ'MINA, A.P.

Electrophoretic and immunochemical investigations of Clostridium
oedematiens anatoxin. Zhur.mikrobiol.epid. i imun. 30 no.1:54-48
Ja '58. (MIRA 12:3)

I. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN
SSSR.

(CLOSTRIDIUM
oedematiens anatoxin, electrophoretic &
immunochemical aspects (Rus))

F-6

USSR / Microbiology. Anaerobic Bacilli.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72217.

Author : Vinogradova, I. N., Vlasova, Ye. V., Palkina, N. A.
Inst : General Directorate of the Institutes of Vaccines
and Serums of the Ministry of Public Health of
the USSR.

Title : Casein Medium for Production of the Anatoxin
B. oedematiens.

Orig Pub: Materialy po obmenu opyтом. Gl. upr. in-tov
vaktsin i syvorotok M-va zdravookhr. SSSR,
1956, 2/52. 61-65.

Abstract: A method is described for the preparation of a
nutrient medium from hydrochloric acid hydroly-
sis of casein and a liquor concoction used for
obtaining anatoxin B. oedematiens (BO). In

Card 1/2

USSR / Microbiology. Anaerobic Bacilli.

F-6

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72217.

Abstract: this medium there was successfully obtained a
BO toxin which contains 2,000-10,000 DLM/ml.
-- Yu. Z. Gondon.

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83

VLASOV, Yu.G.

Water vapor pressure over NaCl solutions and the activity
coefficients of NaCl at 45°C. Zhur. fiz. khim. 37 no.11:
2586-2587 N°63. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet.

VLASOV, Yu.I., kand. biolog. nauk

Recent developments in the study of viruses. Zashch. rast.
ot vred. i bol. 8 no.3:51-52 Mr '63. (MIRA 17:1)

1. Vsesoyuznyy institut zashchity rasteniy.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0

BELINSKIY, Vasiliy Alekseyevich; POBIYAKHO, Vasiliy Afanas'yevich;
RESHETOV, V.D., otv. red.; VLASOVA, Yu.V., red.; PRAYNINA,
M.I., tekhn. red.

[Aerology] Aerologiia. Leningrad, Gidrometeoizdat, 1962. 463 p.
(MIRA 16:2)
(Atmosphere)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0"

TVERSKOY, Pavel Nikolayevich. Prinimal uchastiye KIRYUKHIN, B.V.;
SELEZNEVA, Ye.S., red.; VLASOVA, Yu.V., red.; BRAYNINA, M.I.,
tekhn. red.; VOLKOV, N.V., tekhn. red.

[Course in meteorology; the physics of the atmosphere] Kurs me-
teorologii; fizika atmosfery. Pod red. E.S.Seleznevoi. Lenin-
grad, Gidrometeoizdat, 1962. 669 p. (MIRA 16:2)
(Atmosphere)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0

BLYUMINA, L.I.; SAGATOVSKIY, N.V., redaktor; VLASOVA, Yu.V., redaktor;
BRYANINA, M.I., tekhnicheskiy redaktor.

[Analysis of the recurrence of certain synoptic processes] Analiz
povtoriaemosti nekotorykh sinopticheskikh protsessov. Leningrad,
Gidrometeorologicheskoe izd-vo, 1954. 104 p.[Microfilm] (MLRA 7:11)
(Meteorology--Observations)

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CIA-RDP86-00513R001860320001-0"

KONDRAT'YEV, Kirill Yakovlevich; TVERSKOY, P.N., professor, redaktor;
VILASOVA, Yu.V., redaktor; BRAYNINA, M.I., tekhnicheskiy redaktor.

[Solar radiation] Luchistaia energiya solntsa. Pod red. P.N.Tver-
skogo. Leningrad, Gidrometeorologicheskoe izd-vo, 1954. 599 p.
(Solar radiation) (MLRA 8:1)

POGOSYAN, Kh.P.; VLASOVA, Yu.V., redaktor. BRAYNINA, M.I. tekhnicheskiy
redaktor [Planetary frontal zones in the Northern and Southern Hemispheres]
Planetarnye frontal'nye zony v severnom i iuzhnom polushariiakh.
Leningrad, Gidrometeorologicheskoe izd-vo, 1955. 57 p. (MLRA 8:8)
(Meteorology)

GDEBOV, Petr Aleksandrovich; KAROL', B.P., redaktor; VLASOVA, Yu. V.
redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor

[Science of the weather] Nauka o pogode. Leningrad, Gidro-
meteorologicheskoe izd-vo, 1955. 110 p. (MLRA 8:9)
(Meteorology)

VLASOVA, Yu. V.

OGNEVA, Tat'yana Aleksandrovna, kandidat geograficheskikh nauk; LAYKHT-MAN D.L., doktor fiziko-matematicheskikh nauk, redaktor; VLASOVA, Yu.V., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor

[Some characteristics of heat balance of an active surface
(according to observations made at Koltush)] Nekotorye osobennosti teplovogo balansa deiatel'noi poverkhnosti (po materialam nablyudenii v Koltpushakh. Leningrad, Gidrometeorologicheskoe izd-vo, 1955. 119 p.

(Heat)

VLASOVA, Yu.V.

ISAYEV, E.A.; DROZDOV, O.A., doktor geograficheskikh nauk; redaktor;
VLASOVA, Yu.V., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy
redaktor.

[Synoptic processes over the Atlantic Ocean and Eurasia] Sinop-
ticheskie protsessy nad Atlanticheskim okeanom i Evraziei. Pod
red. O.A. Drozdova. Leningrad, Gidrometeorologicheskoe izd-vo,
1955. 210 p. (MLRA 8:8)

(Meteorology)

GANDIN, Lev Semenovich; LAYKHTMAN, David L'vevich; MATVRYEV, Leonid Tikhonovich; YUDIN, Mikhail Isaakovich; FYATYGIHA, K.V., redakteur; VLAISOVA, Yu.V., redakteur; SOLOVEYCHIK, A.A., tekhnicheskiy redakteur.

[Principles of dynamic meteorology] Osnovy dinamicheskoi meteoreologii. Pod red. D.L.Laykhtmana, M.I. Yudina. Leningrad, Gidrometeoizdat, 1955. 646 p. (MLRA 9:5)
(Meteorology)

SHLYAKHOV, Vasiliy Ivanovich; KASTROV, V.G., redaktor; VLASOVA, Yu.V.,
redaktor; BRAYNINA, M.I., tekhnicheskij redaktor

[Research on the balance of long-wave radiation in the troposphere]
Issledovanie balansa dlinnovolnovoi radiatsii v troposfere. Pod
red. V.G.Kastrova. Leningrad, Gidrometeorologicheskoe izd-vo,
1956. 84 p.
(Radiation)

GRABOVSKIY, Rostislav Ivanovich; TVERSKOY, P.N., redaktor; VLASOVA, Yu.V.,
redaktor; FLAUM, M.Ya., tekhnicheskiy redaktor

[Condensation nuclei in the atmosphere] Atmosfernye iadra kondensatsii.
Pod red. P.N.Tverskogo. Leningrad, Gidrometeorologicheskoe izd-vo,
1956. 163 p.
(Atmospheric nucleation)

IVANOV, G.S., otvetstvennyy red.; VLASOVA, Yu.V., red.; BRAYNINA, M.I.,
tekhn.red.

[Instructions for hydrometeorological stations and posts]
Nastavlenie gidrometeorologicheskim stantsiam i postam.
Izd.2-oe. Leningrad, Gidrometeor.izd-vo. No.9. [Hydrometeorological observations at ocean stations] Gidrometeorologicheskie mabljudeniia na morskikh stantsiakh. Pt.1. [Hydrological observations at the shore] Pribrezhnye gidrologicheskie nabliudeniia. 1956. 290 p. (MIRA 11:1)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby.
(Oceanography) (Hydrology)

VLASOVA, Ida Arturovna

GOL'TSBERG, Ida Arturovna; RUDENKO, A.I., otvetstvennyy redaktor; VLASOVA,
Yu.V., redaktor; BRAYNINA, M.I., tekhnicheskiy redaktor

[Microclimate and its importance in agriculture] Mikroklimat i ego
znamenie v sel'skom khoziaistve. Leningrad, Gidrometeor.izd-vo,
1957. 65 p.
(Climatology)

VLASOVA, Yu. V.

DEVYATOVA, Valentina Aleksandrovna; PINUS, N.Z., otvetstvennyy redaktor;
VLASOVA, Yu.V., redaktor; BRAJNINA, M.I., tekhnicheskiy redaktor.

[Microaerological studies of the lower kilometric layer of the
atmosphere] Mikroaerologicheskie issledovaniia nizhnego kilometro-
vogo sliia atmosfery. Leningrad, Gidrometeor.izd-vo, 1957, 143 p.
: (MIRA 10:5)

(Atmosphere)

VIAZOVY V.

KHAKHALIN, Viktor Stepanovich, kandidat tekhnicheskikh nauk; KOSTAREV, V.V.,
otvetstvennyy redaktor; ~~VIAZOVA, Yn. V.~~ redaktor; BRAYNINA, M.I.,
tekhnicheskiy redaktor

[Radio engineering in aerology] Radiotekhnika v aerologii. Lenin-
grad, Gidrometeor.izd-vo, 1957. 263 p. (MLRA 10:?)
(Radiosondes) (Radar meteorology)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0

POCHTAREV, Viktor Ivanovich, PUDOVKIN, I.M., otv.red.; VLASOVA, Yu.V., red.;
SOLOVEYCHIK, A.A., tekhn.red.

[Earth is a large magnet] Zemlia - bol'shoi magnit. Leningrad,
Gidrometeor, izd-vo, 1958. 58 p. (MIRA 11:9)
(Magnetism, Terrestrial)

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0

RUSIN, Nikolay Petrovich; VLASOVA, Yu.V., red.; FLAUM, M.Ya., tekhn.red.

[Climate of the Antarctic regions] Klimat Antarktidy. Leningrad,
Gidrometeor. izd-vo, 1959. 111 p.
(MIRA 12:7)
(Antarctic regions--Climate)

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CIA-RDP86-00513R001860320001-0"

KHRGIAN, Aleksandr Khristoforovich; POGOSYAN, Kh.P., otv.red.;
VLASOVA, Yu.V., red.; VLADIMIROV, O.G., tekhn.red.

[An outline of the development of meteorology] Ocherki
razvitiia meteorologii, Izd.2., perer. Leningrad,
Gidrometeor,izd-vo. Vol.1. 1959. 427 p. (MIRA 12:8)
(Meteorology)

NIKANDROV, Vladislav Yakovlevich; BAZILEVICH, V.V., otv.red.; VLASOVÀ,
Yu. V., red.; VOLKOV, N.V., tekhn.red.

[Artificial modification of clouds and fogs; microphysical
principles] Iskusstvennye vozdeistviia na oblaka i tumany;
mikrofizicheskie osnovy. Leningrad, Gidrometeor.izd-vo, 1959.
189 p. (MIRA 13:3)

(Weather control)

ZAVARINA, Mariya Vasil'yevna; YUDIN, Mikhail Isaakovich. Prinimali
uchastiye: DMITRIYeva-ARRAGO, L.R.; LOBANOVA, V.Ya.; BELOUSOV, S.L.;
ZELIKOVSKIY, V.E.; POKROVSKAYA, T.V., otv. red.; GONDIN,
L.S., otv. red.; VLASOVA, Yu.V., red.; IVKOVA, G.V., tekhn.
red.

[Calculating machines and their use in meteorology and
climatology] Schetnye mashiny i ikh ispol'zovanie v meteoro-
logii i klimatologii. Leningrad, Gidrometeor. izd-vo, 1963.
(MIRA 17:3)
263 p.

KONSTANTINOV, Aleksey Rodionovich; STRUZER, L.R., otv. red.;
VLASOVA, Yu.V., red.; ARONS, R.A., tekhn. red.; BRAYNINA,
M.I., tekhn. red.

[Evaporation in nature] Isparenie v prirode. Leningrad,
Gidrometeorizdat, 1963. 589 p. (MIRA 16:11)
(Evaporation (Meteorology))

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0

KONDRAT'YEV, Kirill Yakovlevich; VLASOVA, Yu.V., red.; BRAYNINA, M.I.,
tekhn. red.

[Meteorological satellites] Meteorologicheskie sputniki. Leningrad, Gidromet.izd-vo, 1963. 310 p. (MIRA 16:4)
(Artificial satellites)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320001-0"

YUDIN, Mikhail Isaakovich; TITOV, S.I., otv. red.; VLASOVA, Yu.V.,
red.; BRAYNINA, M.I., tekhn. red.

[New methods and problems in short-range weather forecasting]
Novye metody i problemy kratkosrochnogo prognoza pogody. Le-
ningrad, Gidrometeoizdat, 1963. 403 p. (MIRA 16:5)
(Numerical weather forecasting)

YUDIN, M. I., doktor fiz.-mat. nauk, prof., red.; VLASOVA, Yu. V., red.;
BRAYNINA, M.I., tekhn. red.

[Papers from the Conference of Coordinating Commission on
Numerical Methods of Forecasting] Materialy soveshchaniia. Pod
red. M. I. Yudina. Leningrad, Gidrometeoizdat, 1961. 133 p.
(MIRA 16;3)

1. Russia (1923- U.S.S.R.) Koordinatsionnaia komissiya po chis-
lennym metodam prognoza.
(Numerical weather forecasting)

SELEZNEVA, Ye.S., otv. red.; GUSHCHIN, G.P., otv. red.; VLASOVA, Yu.V.,
red.; SERGEYEV, A.N., tekhn. red.

[Data on the chemical composition of atmospheric precipitation
and total ozone content of the atmosphere at various points of the
U.S.S.R.; materials of the International Geophysical Year and
International Geophysical Cooperation for 1957-1959] Dannye po khi-
micheskому составу атмосферных осадков и общему содержанию
оксида в атмосфере в различных пунктах СССР; материалы МГГ и
МГС за 1957-1959 гг. Leningrad, Gidrometeoizdat, 1961. 81 p.

(MIR 15:9)

1. Leningrad. Glavnaya geofizicheskaya observatoriya.
(Precipitation(Meteorology)) (Air—Analysis) (Ozone)

NELEPETS, Vasiliy Stanislavovich, kand. tekhn. nauk, dots.;
STEPANENKO, Vladimir Danilovich, kand. fiz.-mat. nauk, dots.;
KHAKHALIN, V.S., otv. red.; VLASOVA, Yu.V., red.; SERGEIEV,
A.N., tekhn. red.

[Use of radiolocation methods in meteorological observations]
Radiolokatsionnye metody meteorologicheskikh nabliudeni.
Leningrad, Gidrometeoizdat, 1961. 174 p. (MIRA 15:4)
(Radar meteorology)

LAYKHTMAN, David L'vovich; VLASOVA, Yu.V., red.; SOLOVEYCHIK, A.A.,
tekhn. red.

[Physics of the atmospheric boundary layer] Fizika pogranich-
nogo sloia atmosfery. Leningrad, Gidrometeor.izd-vo, 1961.
252 p.

(MIRA 15:1)
(Meteorology)

KALINOVSKIY, Aleksandr Boleslavovich; PINUS, Naum Zinov'yevich. Pri-
nimal uchastiye SHMETER, S.M.; STEPANENKO, V.D., otv. red.;
ZABRODSKIY, G.M., otv. red.; VLASOVA, Yu.V., red.; BRAYNINA,
M.I., tekhn. red.

[Aerology] Aerologiia. Leningrad, Gidrometeor. izd-vo. Pt.1.
[Methods of aerological measurements] Metody aerologicheskikh
izmerenii. 1961. 517 p. (MIRA 15:2)
(Meteorology—Observations)

BELEVICH, V.V.; SHVETSOVA, V.P.; ZHITYAYKINA, N.P.; BYKADOROV, I.S.;
IVANOV, G.I., kand.sel'skokhoz.nauk; GERMANISHVILI, V.Sh.,
kand.geoogr.nauk, retsenzent; SOKOLOV, I.F., retsenzent;
KALMYKOVA, V.V., retsenzent; LYUBOMUDROVA, S.V., retsenzent;
KRUZHKOVA, T.S., retsenzent; BOYKOVA, K.G., retsenzent;
NOVSKIY, V.A., otv.red.; VIASOVA, Yu.V., red.; SERGEYEV, A.N.,
tekhn.red.

[Agroclimatic manual for the Maritime Territory] Agroklimaticheskii
spravochnik po Primorskому kraiu. Leningrad, Gidrometeor.izd-vo,
1960. 129 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby, Primorskoye upravleniye, 2. Vladivostokskaya gidrometeorologicheskaya observatoriya (for Belevich, Shvetsova, Zhityaykina, Bykadorov). 3. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Germanishvili, Sokolov, Kalmykova, Lyubomudrova, Kruzhkova, Boykova).
(Maritime Territory--Crops and climate)

ADAMOV, Pavel Nikolayevich; VLASOVA, Yu.V., red.; FLAUM, M.Ya., tekhn.
red.

[Local weather signs] Mestnye priznaki pogody. Leningrad, Gidro-
meteor. izd-vo, 1961. 33 p. (MIRA 14:9)
(Weather forecasting)

YUDIN, M.I., doktor fiz.-mat. nauk, prof., red.; VLASOVA, Yu.V., red.;
BRAYNINA, M.I., tekhn. red.

[Materials of the Conference of the Coordinating Commission on
Numerical Forecast Methods] Materialy soveshchaniia. Pod red.
M.I. Yudina. Leningrad, Gidrometeor. izd-vo, 1961. 133 p.
(MIRA 14:8)

1. Russia(1923- U.S.S.R.) Koordinatsionnaya komissiya po
chislennym metodam prognoza.
(Meteorology)

BELOBROV, Andrey Pavlovich; VIL'NER, B.A., otv. red.; VLASOVA, Yu.V.,
red.; BRAYNINA, M.I., tekhn. red.

[Radio navigation phase systems in hydrography and oceanography]
Fazovye radionavigatsionnye sistemy v gidrografii i okeanologii.
Leningrad, Gidrometeor. izd-vo, 1961. 169 p. (MIRA 14:7)
(Radio in navigation)

GANDIN, L.S. [translator], red.; DUBOV, A.S. [translator], red.; VLASOVA,
Yu.V., red.; VLADIMIROV, O.G., tekhn.red.

[Numerical methods of weather prediction; collection of translated
articles] Chislennye metody prognoza pogody; sbornik perevodnykh
statei. Pod red. L.S.Gandina i A.S.Dubova. Leningrad, Gidro-
meteor.izd-vo, 1960. 281 p.
(MIRA 13:12)
(Weather forecasting)

KONDRAT'YEV, Kirill Yakovlevich; FILIPOVICH, Ol'ga Petrovna; VLASOVA,
Yu.V. red.; BRAYNINA, M.I., tekhn.red.

[Thermal regime of the upper atmosphere] Teplovoi rezhim
verkhnikh sloev atmosfery. Leningrad, Gidrometeor.izd-vo,
1960. 355 p. (MIRA 13:11)
(Atmosphere, Upper) (Atmospheric temperature)

GIRS, Aleksandr Aleksandrovich. Prinimali uchastiye: GUROV, V.P.,
dotsent; KHRABROV, Yu.B., kand.fiziko-matem.nauk. POKROVSKAYA,
T.V., otv.red.; VLASOVA, Yu.V., red.; BEYNIHA, M.I., tekhn.red.

[Fundamentals of long-range weather forecasting] Osnovy dolgo-
srochnykh prognozov pogody. Leningrad, Gidrometeor.izd-vo, 1960.
559 p. (MIRA 13:7)

1. Tsentral'nyy institut prognozov (for Khrabrov).
(Weather forecasting)

66909

SOV/29-59-11-25/31

159000
25(1)
AUTHORS: Bagretsova, I., Vlasova, Z., Engineers of the Scientific
Research Institute of the Tire Industry

TITLE:

Metallocord
Tekhnika molodezhi, 1959, Nr 11, p 37 (USSR)

PERIODICAL:

ABSTRACT:

The authors report on the use of metallocord for tire production. The durability of metallocord is 5 times higher than that of viscose-, and 3 times higher than that of caprone cord. Tires can be produced 2- to 4-ply instead of 8- to 14-ply as is usual for textile tires. Metallocord tires can stand a higher load. Because of the lower thickness of tread, and good heat conductivity of the lower thickness of tread, and good heat protectors. As the metallocord does not stretch, the wear of tires is less, and treads becomes smaller. Steel is used as basic material for the production of metallocord. Differently thick ropes are twisted from steel wire 0.15 mm thick. These ropes are wound over a rubber layer onto a special drum, and covered and rolled with another rubber layer of the same thickness. The pressed metallocord is then used for the tire production. There are two types of tires possible: standard tires with the cord

AS

Card Card 1/2

Metallocord

66909

SOV/29-59-11-28/31

threads intersecting at an angle of about 90°, and tires where the cord runs meridionally.- The Omsk Tire Factory was established in the first years of the National War. The factory employs several thousands of workers. Production was quadrupled in the first 10 postwar years. In the meantime, the old machinery was completed and replaced. This allowed a further production increase of 30% in the past 3 years. A number of talented inventors and efficiency experts grew up in the factory, including A. Gavrilov, A. Kol'tsov, V. Guzeyev, I. Klimov; B. Markov and K. Mishin, mechanics; T. Terekhova and G. Limovetskiy, engineers; V. Sapronov, M. Gil'shteyn, V. Filippov, technical engineers, and others. About 4,000 inventions and efficiency suggestions have been realized in recent years. This resulted in savings of 25 million rubles for the factory. The factory will soon start production of metallocord tires. There are 3 figures and 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti
(Scientific Research Institute of the Tire Industry)

Card 2/2

VLASOVA, Z.A.; SIPOVSKIY, P.V. (Leningrad)

Characteristics of peptic ulcer of the stomach and its complications,
according to autopsy data in Leningrad from 1952-1956. Klin.med. 37
no.10:54-58 O '59. (MIRA 13:2)

1. Iz kafedry patologicheskoy anatomii (zaveduyushchiy - prof. P.V.
Sipovskiy) Leningradskogo gosudarstvennogo instituta dlya usovershenst-
vovaniya vrachey imeni S.M. Kirova (direktor N.I. Blinov).
(PEPTIC ULCER pathol.)

T

Country : USSR
Category: Human and Animal Physiology. Action of Physical Factors. Ionizing Radiation.

Abs Jour: RZhBiol., № 19, 1958, 09379

Author : Shcherban, E.I.; Vlasova, Z.I.

Inst : -
Title : Morphological Changes in the Kidneys During Acute Radiation Sickness, Produced by Radioactive Phosphorus.

Orig Pub: Tr. Vses. konferentsii po med. radiol. Eksperim. med. radiol. M., MedGiz, 1957, 204-208.

Abstract: Rabbits and mice were administered internally or subcutaneously P32 in doses of 7-66 μ curies/g. In the majority of cases development of acute radiation sickness was noted with characteristic clinical symptoms and morphological manifestations, observed

Card : 1/2

T-145

VLASOVA, Z.A.

Method of reduction to ordinary differential equations. Trudy
mat. inst. 53:16-36 '59.
(Differential equations)

VLASOUA, Z.A.

16(1)

PHASE I BOOK EXPLOITATION

SOV/2217

Akademiya nauk SSSR. Matematicheskiy institut imeni V. A. Steklova

Raboty po priblizhennomu analizu (Works on Approximate Analysis) Moscow, AN
SSSR, 1959. 391 p. (Its: Trudy, tom. 53) Errata slip inserted. 2,200
copies printed.

Ed.: L. V. Kantorovich, Corresponding Member, USSR Academy of Sciences,
Professor; Resp. Ed.: I. G. Petrovskiy, Academician; Deputy Resp. Ed.:
S. M. Nikol'skiy, Professor; Ed of Publishing House: N. K. Zaychik;
Tech. Ed.: R. A. Arons.

PURPOSE: This book is intended for professional mathematicians interested
in approximation methods.

COVERAGE: The book contains a collection of works in the field of approximate
computations completed at the Leningrad Branch of the Mathematics Institute
imeni V. A. Steklov of the Academy of Sciences, USSR, from 1953 to 1958. All
the works contained in this book are published in full for the first time.
The theoretical study of approximation methods conceptually related to the

Card 1/5

Works on Approximate Analysis

SOV/2217

application of methods of functional analysis has a significant place in the book. In addition, the book contains groups of works on the following subjects: 1) approximate methods of solving the boundary value problems of mathematical physics, 2) numerical methods in the theory of functions, 3) numerical methods of linear algebra, and 4) numerical computation of an indefinite integral. The editor thanks the following people: V. I. Krylov, V. N. Faddeyova, and V. P. Il'in, scientific workers at the Institute, for editing the articles; Ye. A. Meynik, T. P. Akimova, K. Ya. Alfer'yeva and G. A. Gaber, workers at the Institute's laboratory, for computing the tables; Professor S. M. Lozinskiy for his critical review of many of the works; A. A. Dorodnitsinny and his colleagues for reviewing the works published; Professors D. K. Faddeyev and Yu. Ye. Alenitsyn for final review of the book.

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- Nikolayeva, G. A. (Deceased) On the Approximate Construction of a Conformal Mapping by the Method of Conjugate Trigonometric Series 236
- In Memoriam G. A. Nikolayeva 266
- Streshneva, V. A. Supplementary Tables for the Solution of Poisson Equations by the Method of Reduction to Ordinary Differential Equations for Polygonal Regions 267
- Krylov, V. I., M. A. Fillipova, M. F. Frolova. Computing the Indefinite Integral With a Small Number of Values of the Integrable Function 283
- Chernin, K. Ye. Solution of One Axially Symmetric Problem by the Direct Method 302
- Chernin, K. Ye. Conformal Mapping of Regions, Composed of Rectangles, on to the Unit Circle 307
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Works on Approximate Analysis

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- Yarysheva, I. M. Finite Difference Methods of Solving Goursat's Problem 342
Il'in, V. P. On "Embedding" Theorems 359
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Card 5/5

LK/mg
11-10-59

SIPOWSKIY, P.V.; VLASOVA, Z.A. (Leningrad)

Atherosclerosis morbidity according to autopsy data in Leningrad during the period 1954-1958. Klin.med. 39 no.5:65-73
Mys '61. (MIRA 14:5)

1. Iz prozektorskoy komissii Leningradskogo gorodskogo otdela zdravookhraneniya i kafedry patologicheskoy anatomii (zav. - prof. P.V. Sipovskiy) Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni S.M. Kirova.
(ARTERIOSCLEROSIS)

GIRGOLAV, S.S., professor; BLINOV, N.I., professor; BALAKINA, V.S., professor; KEMEL'NITSKIY, O.K., kandidat meditsinskikh nauk; BRIGEMENIK, Ye.V., kandidat meditsinskikh nauk; BOYKO, E.K., kandidat meditsinskikh nauk; BYSTROVA, V.V., kandidat meditsinskikh nauk; VLASOVA, Z.A., kandidat meditsinskikh nauk; ANTIPIHA, A.N., nauchnyy sotrudnik

Petr Vasil'evich Sipovskii. Arkh.pat. 18 no.8:131-132 '56. (MLRA 10:2)

1. Deystvitel'nyy cheln AMN SSSR (for Girgolav). 2. Direktor Instituta usovershenstvovaniya vrachey imeni S.M.Kirova (for Blinov). 3. Direktor Nauchno-issledovatel'skogo instituta travmatologii i ortopedii (for Balakina)
(SIPOVSKII, PETR VASIL'EVICH)

6/517/62/066/000/006/006
B172/B112

AUTHOR: Vlasova, Z. A.

TITLE: Use of a net method for a non-linear one-dimensional variational problem

SOURCE: Akademiya nauk SSSR. Matematicheskiy institut. Trudy. v. 66. Moscow, 1962. Raboty po avtomaticheskому programmirovaniyu, chislennym metodam i funktsional'nomu analizu. 196-204

TEXT: The variational problem under consideration consists in finding a function $y(x)$ that passes through given points $A(a, a_1)$ and $B(b, b_1)$ and that minimizes the integral $\int_a^b \psi(x, y, y') dx$. After the application a quadrature formula with the coefficient $C_k > 0$ ($k = 0, \dots, n + 1$) and the choice a function $C(x)$ having the values C_k at the points $x_0 = a < x_1 < \dots < x_n < x_{n+1} = b$, the formulated problem can be approximated

Card 1/2

S/517/62/066/000/006/006
B172/B112

Use of a net method for a ...

by a problem which consists in finding a vector $\mathbf{Y} = (a_1, y_1, \dots, y_n, b_1)$,

for which the sum $\sum_{k=0}^n \psi(x_k, y_k, \frac{y_{k+1} - y_k}{\Delta x_k})$ reaches a minimum. Here,

$\psi(x, y, y') = C(x)\varphi(x, y, y')$. As a necessary condition the following equations are obtained:

$$\frac{\partial \psi}{\partial y} \Big|_k - \frac{1}{\Delta x_k} \frac{\partial \psi}{\partial y'} \Big|_k + \frac{1}{\Delta x_{k-1}} \frac{\partial \psi}{\partial y'} \Big|_{k-1} = 0 \quad \text{with } \Delta x_k = x_{k+1} - x_k,$$

$$\frac{\partial \psi}{\partial y} \Big|_k = \frac{\partial \psi}{\partial y} \quad \text{for } x = x_k, y = y_k, y' = \frac{y_{k+1} - y_k}{\Delta x_k}. \quad \text{Assuming that } \Delta x_k \text{ and}$$

C_k satisfy sufficient conditions, the unambiguous solution of (1) is the \mathbf{Y} sought for. A method by Davidenko (DAN SSSR, v. 88, no. 4, 1953, 601-602) is used to solve system (1) which is in general non-linear.

Card 2/2

VLASOVA, Z.A.; SHCHERBAN', E.I. (Leningrad)

Morphological changes in the kidneys in acute radiation sickness produced by radioactive phosphorus [with summary in English].
Arkh.pat. 19 no.9:43-47 '57. (MIRA 10:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. P.V.Sipovskiy) Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S.M.Kirova i patologoanatomiceskoy laboratorii (zav. - prof. L.V.Funshteyn) TSentral'nogo nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.
(KIDNEYS, effect of radiations,
radiophosphorus (Rus))
(PHOSPHORUS, radioactive,
eff. on kidneys (Rus))

EXCERPTA MEDICA Sec 5 Vol.11/8 Gen. Pathology Aug 58

VLASOVA Z.A.
1943. MORPHOLOGICAL CHANGES IN THE KIDNEYS IN ACUTE RADIATION SICKNESS CAUSED BY RADIOACTIVE PHOSPHORUS (Russian text) - Vlasova Z. A. and Scherban E. I. - ARKH. PATOL. 1957, 19/9 (43-47) Illus. 3

Four experimental series composed of 17 rabbits and 76 white mice. In the first series (rabbits) 7 mc. P³²/g. was administered s.c. In the other 3 series (mice), the P³² (up to 66 mc./g.) was administered either orally or s.c. The animals were killed after between 4 hr. and 15 days later. All animals showed haemodynamic disturbances in the kidneys; prestaasis, oedema, haemorrhages. The P³² becomes concentrated in the epithelial cells of the convoluted tubuli, which show severe dystrophic changes, whereby bacteria also settle down. Brandt - Berlin (V, 14, 16)

VLASOVA, Z. A.

"Morphological Changes in the Diaphragm During Certain Forms of Pulmonary Tuberculosis." Cenii Med Sci, Leningrad State Inst for the Advanced Training of Physicians, Leningrad, 1954. (PZhBiol, No 6, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

VLASOVA, Z.A.

Method of difference for a nonlinear one-dimensional variational
problem. Trudy Mat.inst. 66:196-204 '62. (MIRA 15:11)
(Calculus of variations)

S/199/63/004/002/013/015
B107/B102

AUTHOR: Vlasova, Z. A.

TITLE: Numerical realization of the method of the reduction to
ordinary differential equations

PERIODICAL: Sibirskiy matematicheskiy zhurnal, v. 4, no. 2, 1963, 475-479

TEXT: The numerical realization of the method described by the author
(Approximative solution of boundary value problems for elliptic
differential equations by reduction to ordinary differential equations,
Dissertation, Matem. in-t im. V. A. Steklova, Ak. nauk SSSR, 1956) is
discussed for the Dirichlet problem of the Poisson equation $\Delta u = -p(x,y)$,
 $u|_{\Gamma} = 0$ with $p(x,y)$ and Γ even with respect to y : $x = a$, $x = b$, $y = \varphi(x)$.
The system of formulas required for this purpose is shown in detail. The
reduction to Cauchy's problem may meet with difficulties if the fundamental
system contains rapidly growing solutions. The spread of the solutions
is the higher the narrower the domain in the direction of the y axis.
With numerical integration, solutions that are growing rapidly overlap the
others. The numerical calculation virtually always leads to the same
solution independently of the initial values chosen. In this case the
Card 1/2

S/199/63/004/002/013/013

Numerical realization of the method of the ... B187/B102

method for the numerical solution of the Cauchy problem of a linear equation of n-th order described by M. S. Galkin can be used in the construction of a fundamental system of the solutions. (Method of calculating the natural vibrations in the case of dense natural frequencies, Dissertation, Matem. in-t im. V. A. Steklova Ak. nauk SSSR, 1956). If m ($m < n$) solutions of the conjugate equations are known then the order of the initial equation can be reduced by m by using a Green's formula. Thus it is possible to construct the fundamental system step by step without perturbation. The method is illustrated by a numerical example. There is 1 table.

SUBMITTED: August 23, 1961

Card 2/2

VLASOVA, Z.A.

Convergence of the difference method for a one-dimensional variational problem of the S.N.Bernstein type. Trudy Mat. inst. 84:41-49 '65.
(MIRA 18:9)

VLASOVA, Z.A.; RYBAKOVA, Yu.V.

Numerical implementation of the method of differences for a
nonlinear one-dimensional variational problem. Trudy Mat.
imut. 84:50-59 '65. (MIRA 18:9)

L 20794-66 EWT(d) IJP(c)
ACC NR: AT6003388

SOURCE CODE: UR/2517/65/084/000/0041/0049

AUTHOR: Vlasova, Z. A.

ORG: Mathematics Institute, AN SSSR (Matematicheskiy institut AN SSSR)

TITLE: On the convergence of the difference method for the one-dimensional variation problem of the class of S. N. Bernshteyn (Bernstein)

SOURCE: AN SSSR. Matematicheskiy institut. Trudy, v. 84, 1965. Chislennyye metody i neravenstva v funktsional'nykh prostranstvakh (Numerical methods and inequalities in functional spaces), 41-49

TOPIC TAGS: difference method, differential equation, convergent series, approximate method, minimization, integral function, variational problem, approximation convergence, functional equation

ABSTRACT: The problem on the minimum of the integral

$$I[y] = \int \varphi(x, y, y') dx$$

with the homogeneous boundary conditions

$$y(a) = y(b) = 0$$

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28
B+1

Card 1/3

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ACC NR: AT6003388

is investigated. The subintegral function $\phi(x, y, y')$ has continuous third order derivatives with respect to all three arguments for arbitrary finite y, y' and $x \in [a, b]$ and satisfies the conditions

$$\varphi(x, y, y') = |y'|^{\alpha} [A(x, y) + \epsilon(x, y, y')],$$

(see S. N. Bernshteyn. Ob uravneniyakh variatsionnogo ischisleniya. Uspekhi matem. nauk, 1941, v. 8, 32-74). There exists a constant K such that

$$J_1(x, y, y') > K > 0,$$

where

$$J(x, y, y') = \frac{\varphi_y - \varphi_{yy'} - \varphi_{yy'y'}}{\varphi_{yy'}},$$

and the Legendre condition.

$$\varphi_{yy'} \geq \delta > 0$$

is fulfilled. This exact variational problem is modified for an approximate method of solution. The interval $[a, b]$ is divided by points $x_k^{(n)}$ into $n+1$ equal parts,

$h_n = b-a/n+1$, and the integral is changed into the sum

$$P(y_1^{(n)}, y_2^{(n)}, \dots, y_n^{(n)}) = \sum_{k=0}^n C_k^{(n)} \varphi\left(x_k^{(n)}, y_k^{(n)}, \frac{\Delta y_k^{(n)}}{h_n}\right),$$

where

$$y_1^{(n)} = y(x_1^{(n)}),$$

$$y_n^{(n)} = y_{n+1}^{(n)} = 0,$$

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$$x_k^{(n)} = a + kh,$$

$$\Delta y_k^{(n)} = y_{k+1}^{(n)} - y_k^{(n)}$$

and $C_k^{(n)}$ are coefficients of the quadrature formula with nodes at the points $x_k^{(n)}$. Subject to certain additional assumptions, the convergence of the approximations thus given is developed such that the minimum of the integral is found for the stated boundary conditions. A system of equations is given for a minimizing functional, and a vector quantity of this functional is shown to be bounded in a manner such that the function $f^*(y)$ which minimizes $I[y]$ is approached as a limit. The author thanks S. G. Mikhlin for his comments on the writing of the paper. Orig. art. has: 31 equations.

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(ANESTHESIA, REGIONAL
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PHASE I BOOK EXPLOITATION

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Okhotsimskiy, D. Ye., Kondrasheva, I.L., Vlasova, Z.I., Kazakova, R.K.
Raschet tochechnogo vzryva s uchetom protivodavleniya (Calculation of
Point-source Blast Taking Counterpressure into Consideration) Moscow,
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Resp. Ed.: Petrovskiy, I.G., Academician; Deputy Resp. Ed.:
Nikol'skiy, S.M., Professor; Ed. of Publishing House: Gurov, K.P.;
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PURPOSE: This volume of the Works of the Mathematics Institute,
Academy of Sciences, is written for the specialists working in the
field of blast waves.

COVERAGE: This work consists of an introduction and four sections. In
the introduction, the authors describe certain Soviet and American
studies in this field and outline briefly the methods of solution,
the characteristics of the results, and the computation techniques.
In section one the statement of the problem is given. Assumed is
a gas which satisfies Clapeyron's equation. Density ρ , pressure

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Calculation of Point-source Blast (Cont.)

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p_0 , blast energy E_0 and $\gamma = \frac{C}{K_V}$ are taken as original parameters of the problem. Lagrange coordinates S and t are taken as independent variables where S is the coordinate of the particle at the moment of the passage of the blast wave and t is the time from the moment of a blast. By certain equations there are introduced dimensionless Lagrange coordinates ξ and τ , dimensionless pressure p , density ρ , velocity of particles u and dimensionless Eulerian coordinate ζ . In section two the initial system of partial differential equations which describes the adiabatic motion of a gas in dimensionless coordinates is given in the form:

$$(1) \quad \begin{aligned} \frac{\partial \alpha}{\partial \xi} &= - \frac{\xi^2}{\sigma^2} \cdot \frac{\partial p}{\partial \xi} \\ \frac{\partial \xi}{\partial \sigma} &= \frac{\xi^2}{\sigma^2} \cdot \frac{1}{\rho} \\ \frac{\partial \xi}{\partial \tau} &= u \\ \frac{\partial \sigma}{\partial \tau} &= 0 \quad (\text{where } \sigma = \frac{p}{\rho r}) \end{aligned}$$

New variables φ , ψ and θ , connected with dimensionless time, pressure, density and velocity, are introduced and the system of equations (1) is written in final form:

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