

Gaynullina, R. Kh.

3(1) p. 2, 3

PHASE I BOOK EXPLOITATION

SOV/3238

Akademiya nauk Kazakhskoy SSR. Astrofizicheskiy institut

Izvestiya, tom VIII (News of the Astrophysics Institute, Kazakh SSR Academy of Sciences, vol. 8) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1959. 850 copies printed.

Eds.: F. Ya. Osadchiy, and Yu. N. Kuznetsov; Tech. Ed.: Z. P. Rorokina; Editorial Board: G. M. Idlis, M. G. Karimov, Z. V. Karyagina (Secretary), D. A. Rozhkovskiy, V. G. Fesenkov (Resp. Ed.).

PURPOSE: This collection of articles is intended for geophysicists and astronomers.

COVERAGE: This collection of articles in astronomy contains studies on the distribution of asteroids as revealed by zodiacal light characteristics, the distortion of the luminosity curve of a variable star, the integrals of motion of an individual star, the electromagnetic mechanism in solar prominences, sky polarization in the Libyan desert, projector research, etc. English abstracts accompany each article. References follow individual articles.

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News of the Astrophysics (Cont.)

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| Boyko, P. N., G. Sh. Livshits, and T. P. Toropeva. Projector Studies of the Indicatrices of Light Scattering | 98 |
| Boyko, P. N. Spectroelectrophotometer Equipped With an Automatic Spectrum Recorder | 108 |

AVAILABLE: Library of Congress

Card 3/3

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3.9000 (1041, 1109, 1327)

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S/169/61/000/002/018/039
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 2, p. 34, # 20252

AUTHORS: Gaynullina, R. Kh., Karyagina, Z. V.

TITLE: The Determination of Temperature of the Upper Atmosphere From
Rotation Bands of the Hydroxyl Spectrum

PERIODICAL: V sb.: "Spektr., elektrofotometr. i radiolokats. issled. polyarn.
siyaniy i svecheniya nochnogo neba". No. 2-3, Moscow, AN SSSR, 1960,
pp. 63-65 (English summary)

TEXT: In accordance with the program of IGY, the temperature of excitation
of OH molecules was determined from the intensity distribution in the rotation
bands (6.1) and (9.3) of the night sky glow spectrum. The observations were
carried out in the vicinity of Alma-Ata at an altitude of 1,400 m. To obtain the
spectra, the diffraction spectrograph ЦП-48 (SP-48) was used. For standardizing
the spectra, a phosphor of constant action was used. The distribution of energy
in the spectrum in absolute units was obtained by comparison with the phosphor.
For six nights of observations, the intensity was determined of all components of
the bands (6.1) and (9.3) in absolute units, and for two nights of observations

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The Determination of Temperature of the Upper Atmosphere From Rotation Bands of the Hydroxyl Spectrum

in relative units in the region of the wavelengths 6,200 - 6,600 Å. The intensities of the lines were determined by integration of the contour. The results of determination of the excitation temperature of the rotation bands showed that the average value, taken from all the nights, of temperature amounts to $257 \pm 2^{\circ}\text{C}$ for both bands.

L. Ye.

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

Card 2/2

IDLIS, G.M.; GAYNULLINA, R.Kh.

Applicability of the ergodic theorem to stationary axisymmetric
self-gravitating star systems. Izv.Astrofiz.inst.AN Kazakh.
SSR 11:41-53 '61.

(MIRA 14:3)

(Mechanics, Celestial)
(Stars)

S/035/62/000/007/033/083
A001/A101

AUTHORS: Gaynullina, R. Kh. Idris, G. M.

TITLE: On rotation and mass of the Large Magellanic Cloud

PERIODICAL: Referativnyy zhurnal, *Astronomiya i Geodeziya*, no. 7, 1962, 45,
abstract 7A331 ("Izv. Astrofiz. in-ta AN KazSSR", 1961, v. 12,
56 - 58; English summary)

TEXT: The rotation curve of the LMC derived from radial velocities of H II regions measured at the Mount-Stromlo Observatory is reconsidered. The calculated values of rotational velocities and their probable errors do not contradict the rotation curve obtained previously (RZhAstr, 1961, 2A541) and estimate of the LMC mass $M = (2.4 \pm 0.7) \cdot 10^9 M_{\odot}$.

I. P.

[Abstracter's note: Complete translation]

Card 1/1

IDLIS, G.M.; GAYNULLINA, R.Kh.; KURMAKAYEV, Z.Kh.

Visible contraction of far spherical components of multiple
galaxies due to the Einstein effect. Izv.Astrofiz.inst.AN
Kazakh.SSR 14:3-18 '62. (MIRA 15:8)
(Galaxies)

GAYNULLINA, R.Kh.; ROSLYAKOVA, T.V.

Effect of orientation in clusters of large E-galaxies. Trudy
Astrofiz. inst. AN Kazakh. SSR 5:237-242 '65.

(MIRA 18:6)

GAYNULLINA, S.Kh.

Limiting cross section areas near zero values of bending
moments. Trudy KAI 46:35-43 '59. (MIRA 14:2)
(Structural frames)

GAYNULLINA, S.Kh.

Approximate calculation of minimum-volume frames. Trudy
KAI 46:67-74 '59. (MIRA 14:2)

(Structural frames)

GAYNULLINA, S.Kh.

Checking the stability of frames having uniform resistance to
bending. Trudy KAI 46:113-119 '59. (MIRA 14:2)
(Structural frames)

GAYNULLINA, S.Kh.

Calculation of statically indeterminate systems with a minimum weight
and a variable section interval. Trudy KAI no.62:31-37 '61.
(MIRA 17:2)

L 26463-65 EWT(d)/EWT(l)/EWP(w)/EWT(m)/EWP(v)/EWA(d)/EWP(t)/T/EWP(k)/EWP(b)
EWA(h) Pr-4/Peb JD/HN/EM/RM
ACCESSION NR: AT5003076

S/2529/63/000/077/0071/0082

37
25

AUTHOR: Gaynullina, S. Kh.

TITLE: Calculation of minimum-weight frames with consideration of the longitudinal forces

8+1

SOURCE: Kazan. Aviatsionnyy institut. Trudy. no. 77, 1963. Stroitel'naya mekhanika, 71-82

TOPIC TAGS: approximation, metal hardness, metal deformation, cylindrical shell, shell stability, castigham theorem

ABSTRACT: This article investigates the calculation of statically indeterminate frames of minimum weight, taking into account the longitudinal forces. The solution of the problem is carried out in the elastic region. It is found that the greatest stresses will be obtained in the fiber if the cross section has a symmetric form. Equations are then derived for determining the area and volume. After this, the author derives the equation of minimum volume in the form of the sum of integrals, and determines whether the conditions of continuity of deformation are satisfied. The equation of continuity of deformation is obtained using the Casti-

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ACCESSION NR: AT5003076

gham theorem. From this, the potential energy is obtained. The author then lists a step-by-step analysis of the calculation of frames of minimum weight. The stresses which were calculated are applied to an actual calculation, and it is proved that the continuity equations are not satisfied. Orig. art. has: 1 figure and 15 numbered formulas.

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan' aviation institute)

SUBMITTED: 08Apr61

ENCL: 00

SUB CODE: AS

NO REF SOV: 015

OTHER: 001

Card 2/2

L 26464-65 EWT(d)/EWP(w)/EWT(m)/EWP(v)/EWA(d)/EWP(k)/EWA(h) Pf-4/Peb EM

ACCESSION NR: AT5003077

S/2529/63/000/077/0083/0088

AUTHOR: Gaynullina, S. Kh.

31
18
B+1

TITLE: Selection of cross sections of systems with equal resistance to bend

SOURCE: Kazan. Aviatsonnyy institut. Trudy, no. 77, 1963. Stroitel'naya mekhanika, 83-88

TOPIC TAGS: fuselage, metal deformation, cylindrical shell, shell stability, metal toughness, bending strength

ABSTRACT: This article discusses the selection of cross sections of systems having equal resistance to bend. The author commences by determining the stresses in statically indeterminable systems of minimum weight by solving the equations of least volume. The areas of the cross sections are then determined with respect to the distribution of the stresses, after which the cross sections are selected. The author then examines both symmetric and nonsymmetric forms of cross sections to determine the distance from the center of gravity to the most distant point, the moment of inertia, and the height of the cross section. Orig. art. has: 3 figures and 19 formulas.

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ACCESSION NR: AT5003077

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan' aviation institute)

SUBMITTED: 22Apr60

ENCL: 00

SUB CODE: AS, AC

NO REF SOV: 004

OTHER: 000

Card 2/2

GAYNUTDINOV, G. G.

42244. SUKHANOV, A. M., GAYNUTDINOV, G. G. Gorennye ugol'noy plastiny. Trudy Tomskogo elektromekhan. In-ta inzh. zh-d transporta, T. XIII, 1948, S. 58-69.

So: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

SHVAB, V.A.; SMOLOVIK, V.A.; KAPUSTIN, A.M.; GAYNUTDINOV, G.G.

High-pressure pneumatic transportation of finely dispersed materials.
Izv. SO AN SSSR no.10:94-103 '63.

(MIRA 17:11)

1. Tomskoye otdeleniye Omskogo instituta inzhenerov zheleznodorozhnogo
transporta.

VOKHMYANIN, N.S.; SHVAB, V.A.; GAYNUTDINOV, G.G.; SMOLOVIK, V.A.

Pneumatic conveying of rubber compound ingredients. Kauch. i rez.
24 no.10:15-19 '65. (MIRA 18:10)

1. Nauchno-issledovatel'skiy konstruktorsko-tehnologicheskii
institut shinnoy promyshlennosti, g. Omsk, i Tomskiy gosudarstvennyy
universitet.

GAYNUTDINOV, M. Z., Cand Agr Sci -- (diss) "On the question of the cultivation of light-gray forest steppe soils of the northern part of the Tatar ASSR." Kazan', 1960. 20 pp; (List by Authors of Dissertations Defended at the Omsk Agricultural Inst im S. M. Kirov); 200 copies; price not given; (KL, 25-60, 136)

GAYNUTDINOV, R.Kh., slesar'; RAKHMANOV, V.A., slesar'

Useful improvement. Elek. i tepl.tiaga 7 no.11:29 N '63.

(MIRA 17:2)

1. Depo Yudino Gor'kovskoy dorogi.

GALAYDA, G.; GAYMUTDINOV, Z.

Using new technological processes. WFO 2 no.7:38
Jl '60. (MIRA 13:7)

1. Uchenyy sekretar' soveta pervichnoy organizatsii Nauchno-
tekhnicheskogo obshchestva, mashinostroitel'noy promyshlennosti
g.Minsk (for Galayda). 2. Chlen Nauchno-tekhnicheskogo obshchestva,
inzhener-tekhnolog litsynogo tsekhа Minskogo mototsikletnogo i
velosipednogo zavoda (for Gaymutdinov).
(Minsk--Casting)

GAYNUTDINOV, Z. S.

"How We Are Improving the Quality of Subscriber Service," Vest. Svyazi, No.7,
pp 18, 19, 1953

Chief, Kazan Telephone Exchange

Translation No. 543, 27 Apr 56

GAYNUTDINOVA, A.G.

VILLER, G.Ye.; GAINUTDINOVA, A.G.; LORENTS, O.G.

Effect of adrenaline on the oxidation of blood in animals.
Dokl.AN Tadsh.SSR no.2:57 '52. (MLRA 9:9)

1.Kafedra biokhimii Stalinabadskego meditsinskogo instituta.
Predstavleno chlenom-korrespondentom AN Tadshikskoy SSR N.F.
Bereskinym.
(ADRENALINE) (BLOOD--ANALYSIS AND CHEMISTRY)

TARCHEVSKIY, I.A.; VDOVINA, A.I.; GAYNUTDINOVA, N.A.

Formation of photosynthates in shade-tolerant plants under the forest canopy and in clearings. Bot. zhur. 46 no.9:1325-1328 S '61. (MIRA 14:9)

1. Kazanskiy gosudarstvennyy universitet im. V.I.Ul'yanova-Lenina. (Forest ecology) (Photosynthesis)

BARCISZEWSKI, Marian; JANECKI, Jerzy; GAYNY, Wanda

Proteinogram in children in the acute phase of infectious hepatitis. *Pediat. pol.* 38 no.3:271-280 '63.

1. Z Ośrodka Szkoleniowego Chorob Zakaznych Oddziału
Bydgoskiego Studium Doskonalenia Lekarzy AM w Warszawie
Kierownik Ośrodka: dr med. M. Barciszewski.
(BLOOD PROTEINS) (HEPATITIS INFECTIONS)

L 10342-66

ACC NR: AP6003353

SOURCE CODE: HU/0018/65/017/002/0200/0205

AUTHOR: Joo, Ferenc--Yoo, F.; Gajo, Maria--Gayo, M.; Kalman, Gorgy--Kalman, D.; 15
Csillik, Bertalan--Chillik, B. BORG: Institute of Anatomy, Histology and Embryology, Medical University of Szeged
(Szegedi Orvostudományi Egyetem Bonctani, Szövet- és Fejlődéstan Intézete)TITLE: Lipoprotein structures in the postsynaptic membrane of the ~~axoneural~~ neuronal junction

SOURCE: Kiserletes Orvostudomány, v. 17, no. 2, 1965, 200-205

TOPIC TAGS: biochemistry, protein, histology

ABSTRACT:

The lipoprotein nature of the postsynaptic membrane of the subneural apparatus has been confirmed by histochemical and polarization microscopic methods. The double refraction of the postsynaptic membrane of the subneural apparatus has been demonstrated in cryostatic slides by means of anisotropic precipitation staining with Rivanol. It was established that Rivanol, which associates parallel with the lipid elements, brings about a negative double refraction on the membrane, in contrast to the positive double refraction brought about by the organization of the proteins which can be observed after fixation with lead. Orig. art. has: 6 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 13May64 / ORIG REF: 002 / OTH REF: 015

Card 1/1

GAYOS, E.

Use of diffusion precipitation for the examination of food products
and for the medicolegal identification. Acta med.hung.16 no.4:415-
422 '60.

1. Kafedra gigiyeny prodovol'stvennykh produktov vysshey sel'sko-
khoz'yaystvennoy shkoly, Vrotslav, Kafedra sudebnoy meditsiny
Meditsinskoy Akademii, Vrotslav.

(IDENTIFICATION MEDICOLEGAL)

(FOOD chem)

GAYPEL', Ya. Ya.

Mechanization and automation at the Perm Bicycle Plant. Biul. tekhn.
ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 17. no. 10: 56-58 0
'64. (MIRA 18:4)

GAYPEL', Ya.Ya., inzh.

Overhead conveyors at the Perm Bicycle Plant. Mekh. i avtom.
proizv. 19 no.4:42-43 Ap '65. (MIRA 18:6)

GAYRAED'YANTS, L.

First results. Okhr. truda i sots. strakh. no.2:62-65 Ag '58.
(MIRA 12:1)

1. Predsedatel' zavkoma "Rostsel'masha."
(Industrial hygiene)

COUWIFI : ROMANIA
CATEGORY :
ABS. JOUR. : RZKhim., No. 1959, No. 87923
AUTHOR : Gayraud, I.
INST. :
TITLE : Power Management at Rumanian Petroleum Refineries
ORIG. PUB. : Tehn. noua, 1958, 5, No 185, 1,2.
ABSTRACT : In this survey which characterizes the state of power management at Rumanian petroleum refineries, data are presented concerning power consumption in refining of 1 ton crude petroleum, and other technical-economic indices of technological processes. -- Ya. Satunovskiy.
CARD:
231

GAYRAUD, Jean; NAGY, Gauba; MOLDOVEANU, Nicolas

Considerations on a perfect system of the index numbers of
specific energy consumption. Ipari energia 5 no.3:61 M '64.

CARACUDOVICI, V.; GAYRAUD, J.; MOLDOVEANU, N.; NAGY, Cs.

Contributions to the systematization of the indexes of specific
power consumption. Rev electrotechn energet 9 no. 2:201-211
'64.

MOLDOVEANU, Nicolae; CARACUDOVICI, Victor; NAGY, Csaba; GAYRAUD, Jean

Considerations on a rational index number system of specific energy consumption. Ipari energia 5 no.3:62 M '64.

GAYSANYUK, Vasilii Fedorovich, ABOVSKIY, Vladimir Petrovich;
YEROFEYEV, Valentin Ivanovich, kand. tekhn. nauk;
NIKIFOROV, Yuriy Yefimovich, dots.

[Improvement in the preparation and assembling of large-panel buildings; practices of the Korkinskii Housing Construction Combine in the city of Krasnoyarsk] Sovershenstvovanie proizvodstva i montazha krupnopanel'nykh zdaniy; opyt raboty Korkinskogo domostroitel'nogo kombinata v g. Krasnoyarske. Moskva, Stroizdat, 1964. 39 p.
(MIRA 18:5)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. Tsentral'noye byuro tekhnicheskoy informatsii. 2. Zaminitel' nachal'nika Glavnogo upravleniya po zhilishchnomu i grazhdanskomu stroitel'stvu v gorode Krasnoyarske (for Abovskiy). 3. Glavnyy inzhener Korkinskogo domostroitel'nogo kombinata v gorode Krasnoyarske (for Gaysanyuk).
4. Nachal'nik Korkinskogo domostroitel'nogo kombinata v gorode Krasnoyarske (for Yerofeyev).
5. Krasnoyarskiy politekhnicheskii institut (for Nikiforov).

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16.6500

AUTHOR: Gaysaryan, S.S. (Moscow)

TITLE: On deriving the Galenkin method for equations with retarded argument

PERIODICAL: Akademiya nauk SSSR. Otdeleniye tekhnicheskikh nauk. Prikladnaya matematika i mekhanika, v. 25, no. 3, 1961, 587 - 590

TEXT: Convergence of the Galenkin method for equations without the retardation was shown by M. Kelydysh in (Ref. 1: O metode Galenkina reshenya krayevykh zadach izvestiya AN SSSR, Seriya Matem. 1942, vol. 6, No. 6, 309-330). Here the results are applied to the case of a linear equation of the 2nd order with argument lag. A boundary problem is considered for a 2nd order equation with retarded argument X

$$L[y(x)] \equiv \frac{d}{dx} \left[p(x) \frac{dy(x)}{dx} \right] + \lambda \left\{ \frac{d}{dx} [q_0(x) y(x)] + r_0(x) y(x) \right\} + \sum_{j=1}^n \left\{ \frac{d}{dx} [q_j(x) y(x-h_j(x))] + r_j(x) y(x-h_j(x)) \right\} = f(x) \quad (1)$$

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X

On deriving the Galenkin ...

$y(x) \equiv 0$ on the initial manifold E_0 , $y(0) = y(1) = 0$ (2) and $p(x)$, $q_0(x)$, $v_0(x)$, $q_j(x)$, $r_j(x)$ ($j = 1, \dots, n$) are continuously differentiable functions given for $0 \leq x \leq 1$; $p(x) \neq 0$, retardations $h_j(x)$ - negative, continuously differentiable functions ($0 \leq h_j(x) \leq 1$), $f(x)$ - a continuous function, λ - complex constant on some bounded region D of the plane λ . Approximate solutions of (1), (2) sought are of the type

$$y_m(x) = a_1^{(m)} \varphi_1(x) + \dots + a_m^{(m)} \varphi_m(x) \tag{3}$$

$$\varphi_k(x) \equiv 0 \text{ in } E_0, \quad \varphi_k(0) = \varphi_k(1) = 0 \tag{4}$$

and

$$1, \varphi_1(x), \varphi_2(x), \dots \tag{4}$$

is complete and orthogonal in $L^2[0, 1]$, its weight $p(x)$. Coefficients $a_k^{(m)}$ ($k = 1, \dots, m$) are determined from

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On deriving the Galenkin ...

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$$a_i(m) + \sum_{k=1}^m (\lambda c_{ik} + d_{ik}) a_k(m) - f_i = 0 \quad (i = 1, \dots, m) \quad (5)$$

and (5) is a finite part of the infinite system

$$a_i + \sum_{k=1}^{\infty} a_k (\lambda c_{ik} + d_{ik}) - f_i = 0 \quad (i = 1, 2, \dots). (7)$$

It is shown that that if 1) Solution $y(x)$ of (1), (2) and solution $\{a_k\}$ of (7) are equivalent in the following sense a) To every solution $y(x)$ of (1), (2) corresponds solution a_1, a_2 of (7) with a convergent sum $a_1^2 + a_2^2 + \dots < +\infty$ and

$$a_k = \int_0^t p(x) y'(x) \varphi_k(x) dx \quad (k = 1, 2, \dots) \quad (8)$$

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On deriving the Galenkin ...

To every solution $a_1 + a_2 \dots$ of (7) with a convergent sum of squares corresponds the solution $y(x)$ of (1) (2), connected with $a_1, a_2 \dots$ by (8). 2) Solution of (7) exists and is a limit when $m \rightarrow \infty$ of solutions of (5) i.e.

$$\lim_{m \rightarrow \infty} \sum_{k=1}^m |a_k - a_k^{(m)}|^2 = 0.$$

Then the Galenkin method is convergent. 1) and 2) also show the existence and uniqueness of the solution of (1). (2) 1a) is proved by assuming the solution $y(x)$ and expressing $y'(x)$ as a Fourier series which on integration gives a uniformly convergent series

$$\eta(x) = \sum_{k=1}^{\infty} a_k \varphi_k(x) \tag{12}$$

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On deriving the Galenkin ...

which on substitution into $L[y(x)] \equiv f(x)$ and integration by parts gives

$$a_1 + \sum_{k=1}^{\infty} (c_{ik}\lambda + d_{ik})a_k - f_1 \equiv 0 \quad (i = 1, 2, \dots) \quad (13)$$

from which it follows that $a_1, a_2 \dots$ are the solution of (7).

Convergence of $a_1^2 + \dots$ follows from the fact that a_k are the coefficients of a convergent Fourier series; b) is proved by using the fact that if a_1, a_2 is solution of (7) and $a_1^2 + \dots < \infty$ then \exists a Fourier series

$$\eta(x) = \sum_{k=1}^{\infty} a_k \varphi_k'(x) \quad (14) \quad \checkmark$$

and $\eta(x) = y'(x)$. Finally it is noted that if $h_j(x) = h_j = \text{const.}$
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D208/D304

X

On deriving the Galenkin ...

then by the method of E.C.T. Smith (Ref. 3: The approximate solution of equations in infinitely many unknowns, Quart. Journ. Math. Oxf., 1947, 18, 69, 25-52) the above method, the existence of the solution of non-homogeneous problem can be proved. There are 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: E.C.T. Smith, The approximate solution of equations in infinitely many unknowns, Quart. Journ. Math. Oxf., 1947, 18, 69, 25-52.

SUBMITTED: May 16, 1960

Card 6/6

GAYSARYAN, S.S.

Foundation for B.G. Galerkin's method of solving boundary value
problems for equations with deviating argument. Trudy Sem. po
teor. diff. urav. s otklon. arg. 1:69-75 '62. (MIRA 16:12)

BAKUSHINSKIY, A.B.; GAYSARYAN, S.S.; GORBUNOV, A.D.

"Numerical solution of ordinary and partial differential equations"
edited by L. Fox. Reviewed by A.B. Bakushinski. Zhur. vych. mat.
i mat. fiz. 4 no.3:615-617 My-Je '64. (MIRA 17:6)

CC NR: AT6035242

SOURCE CODE: UR/3043/66/000/005/0017/0020

AUTHOR: Tikhonov, A. N.; Gorbunov, A. D.; Gaysaryan, S. S.

ORG: none

TITLE: Description of an algorithm for optimum mesh construction in solving the Cauchy problem for ordinary differential equations by Runge Kutta methods

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 5, 1966. Vychislitel'nyye metody i programmirovaniye (Computing methods and programming), 17-20

TOPIC TAGS: Cauchy problem, Runge Kutta ^{integration} method, ordinary differential equation, algorithm, differential equation solution

ABSTRACT: A method is proposed for selecting optimum inhomogeneous meshes when numerically solving a system of N ordinary differential equations:

$$y' = f(x, y), \quad y(x_0) = y_0 \quad (1)$$

(y and f are N-dimensional vectors) in the $x_0 \leq x \leq \bar{x}$ segment by a Runge-Kutta method of degree s. Mesh optimality denotes that at point \bar{x} the prescribed accuracy ϵ is obtained in the least possible number of steps. An inhomogeneous mesh (network) is given by means of constant λ , termed the parameter of the network, and the continuously differentiated function $\phi(x)$ of the distribution of the network steps so that at any node x_i ($-[x_0, x]$) integration step h_i is determined by

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ACC NR: AT6035242

$$h_i = \lambda \varphi(x_i). \quad (2)$$

Optimality of the network is achieved by proper selection of network parameter λ and function $\varphi(x)$. The algorithm in question is for the solution of eq. (1) and embodies a preliminary computation which, although it does not give $y(x)$ with the necessary accuracy, still makes it possible to compute λ and $\varphi(x)$, which makes it possible to achieve the required accuracy at point \bar{x} on the second calculation. The paper gives a method for solving Eq. (1) when $N = 1$, and adduces two examples of Cauchy problems solved. Orig. art. has: 10 formulas.

SUB CODE: 12/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 001

Card 2/2

PIROGOV, I.I., inzh.; GAYSENOK, A.A., inzh.; GORBUSHIN, A.I., inzh.;
GLOZMAN, M.K., inzh.

Raising ships onto inclined longitudinal slips. Sudostroenie
24 no.7:57-59 J1 '58. (MIRA 11:9)
(Ships--Maintenance and repair)

GAYSENOK, A.A., otv.red.; TEMKIN, Ya.G., otv.red.; GLOZMAN, M.K., otv.
red.; WISHKEVICH, G.I., red.; STOLYARSKIY, L.L., red.; FRUMKIN,
P.S., tekhn.red.

[How they built the atomic icebreaker "Lenin"] Kak byl postroen
atomnyi ledokol "Lenin." Leningrad, Gos.soiuznoe izd-vo sudo-
stroit.promyshl., 1959. 62 p. (MIRA 13:3)

1. Admiralteyskiy sudostroitel'nyy zavod (for Gaysenok, Temkin,
Glozman).

(Lenin (Atomic ship))

GAYSENOK, A.A., inzh.; GLOZMAN, M.K., inzh.

Hull assembly and launching of the icebreaker "Lenin" on slipways.
Sudostroenie 27 no.8:48-53 Ag '61. (MIRA 14:9)
(Lenin (Atomic ship)) (Shipbuilding)

12G65

GAYSENOK, N.

USSR/Working Conditions and Regulations Oct 1947
5403.

"Labor Safety Measures in the USSR during Thirty
Years of Soviet Rule," N. Gaysenok, 5 pp

"Prof Soyuz" No 10

Review of pre-revolutionary safety measures including
child and women labor laws, minimum hour law, and of
labor standards in general. Progress made in this
field under the new regime and inauguration of new
laws stressed. Mechanical progress in various in-
dustries, inspection, and widespread use of ventila-
tion emphasized.

LC

12G65

GAYSENYUK, Boris Semenovich, aspirant

Use of continuous fractions in the study of transients in systems
with delay. Izv. vys. ucheb. zav.; elektromekh. 7 no.7:908-910 '64.
(MIRA 18:5)

1. Kafedra prikladnoy matematiki i mekhaniki Chernovitskogo gosudarst-
vennogo universiteta.

GAYSENYUK, B.S. [Haiseniuk, B.S.]; NOZHAK, G.V. [Nozhak, H.V.]

Dynamic stresses in the middle surface of a cylindrical shell
under the action of a pulsating load. Dop. AN URSR no.11:1430-
1434 '65. (MIRA 18:12)

1. Chernovitskiy gosudarstvennyy universitet.

GAYSERYAN, A.

Remote results of the treatment of the tuberculosis of peripheral
lymph nodes. Izv. AN Arm. SSR. Biol. nauki 13 no.6:75-79 Je '60.
(MIRA 13:8)

(LYMPHATICS—TUBERCULOSIS)

GAYSIN, B.M.; LEPITOV, F.F.

Improving the laying of rolling-out hearths of gas-oil heat-treating furnaces. Mashinostroenie no.6:106 N-D '62.
(MIRA 16:2)
(Heat-treating furnaces—Construction)

GAYSIN, B.M.; KAGILEV, N.V.; NEBDAYLO, G.N.

Improving water-cooling systems for the DSP-1.5 electric arc
furnaces. Lit. proizv. no.8:39-40 Ag '62. (MIRA 15:11)
(Electric furnaces--Cooling)

GAYSIN, B.M.

Obtaining steel castings without sand burning. Mashinostroenie no.
4:65-66 J1-Ag '63. (MIRA 17:2)

GAYSIN, B.M.; GROZOV, D.P.; MARKARYAN, R.L.

New refractory mixture for the lining of electric arc furnace
walls. Lit. proizv. no.6:39 Je '63. (MIRA 16:7)

(Refractory materials)

GAYSIN, B.M.; LEPITOV, F.F.

Improved bricklaying of roll-out hearth bottoms in petroleum gas heating furnaces. Lit. proizv. no.8:38 Ag '63. (MIRA 16:10)

GAYSIN, B.M.; GROZOV, D.P.; KOVSHOV, V.M.

Heat insulating perlite shells for riser heads on steel castings.

Lit. proizv. no.10:38 0 '63.

(MIRA 16:12)

ACCESSION NR: AP4020097

S/0304/64/000/001/0052/0053

AUTHORS: Gaysin, B. M. (Engineer); Khmel'nitskaya, Yu. P. (Engineer)

TITLE: Producing complex shapes in steel castings with clean surfaces

SOURCE: Mashinostroyeniye, no. 1, 1964, 52-53

TOPIC TAGS: steel, casting, shaped casting, complex shape, cast lubricant, lubricant, zirconium die lubricant, zirconium powder, nitroenamel, 624A nitroenamel, 646 solvent

ABSTRACT: Producing casting molds by the chemical hardening method has become very popular. It could not be used, however, in casting complex shapes because of the absence of good anti-pickup materials capable of preventing cinder fragments from adhering to the steel surface. A self-drying zirconium dye was devised by the TsNIITmash for this purpose. It contains (in vol. %) zirconium powder - 53, nitroenamel 624A -- 10-15, 646 solvent--32-37. Its specific weight is 1.9-2.0 g/cm³. Cold casting molds blown through with CO₂ were covered with the first layer of this dye and allowed to dry for 4-5 minutes. They were then covered by the second

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ACCESSION NR: APL020097

layer of the dye and dried for 20-30 minutes. If a double layer did not prevent the pickup, the molds were covered by three or four layers and dried for a longer period of time. The steel castings so protected were free of surface defects. The dye is characterized by its stable pigment suspension, by its high painting ability, by rapid drying in air, by the formation of a durable layer, and by fast hardening. One ton of castings required 1.5-2 kg of paint.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 2/2

MARKARYAN, R.P., inzh.; GAYSIN, B.M., inzh.

Increasing the resistance of steel-pouring ladle lining.
Mashinostroenie no. 2:37 Mr-Ap '64. (MIRA 17:5)

GAYSIN, B.M.; MARKARYAN, R.L.

Refractory mixture for lining the lower half of steel pouring
ladles. Lit. proizv. no.3:37 Mr '64. (MIRA 18:9)

GAYSIN, B.M.

Grog and chrome-magnesite mold wash to avoid sand fusion on
cores for steel casting. Lit. proizv. 5:38 My '64.

(MIRA 18:3)

GAYSIN, B.M.

Studying the fusion of sand on castings using technological samples. Lit. proizv. no.6:38-39 Je '64.

(MIRA 18:5)

GAYSIN, B.M.

Effect of the gas pressure in cores on the fusion of sand on steel
castings. Lit. proizv. no.8:45-46 Ag '64. (MIRA 18:10)

GAYSIN, B.M.; NEDBAYLO, G.N.

Automation of the separation of waste sand refuse after polygonal
screening. Lit. proizv. no.9:45-46 S '64. (MIRA 18:10)

GAYSON, B.M.

Efficient method of applying zircon coatings to core surfaces.
Lit. proizv. no.1:38 Ja '65. (MIRA 18:3)

GAYSIN, B.M.

Heat accumulation properties of wishes and sand fusion. Lit.
proizv. no.2:45 F '65. (MIRA 18:6)

GAYSIN, Kh. Dzh.: Master Med Sci (diss) --- "On the pathogenesis of chemical burns caused by caustic soda". Alma-Ata, 1958. 14 pp (Kazakh State Med Inst), 300 copies (KL, No 2, 1959, 125)

GAYSIN, N.; BORMINSKIY, N.

Plant for semiprepared vegetables. Obshchestv.pit. no.12:
13-16 D '59. (MIRA 13:4)
(Vegetables)

GAYSIN, N.

Isotopes irradiate potatoes. Sov.torg. 33 no.1:49-50
Ja '60. (MIRA 13:4)
(Potatoes--Storage)

GAYDIN, IV M

~~SECRET~~

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PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii. Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1950. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. M. Iobanov, Candidate of Physics and Mathematics; A. I. Nikol'yev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Card 1/20

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Transactions of the Tashkent (Cont.)

SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE: The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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Transactions of the Tashkent (Cont.)

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instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

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RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION
IN ENGINEERING AND GEOLOGY

Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan

7

Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

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Card 3/20

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- Khrushchev, V. G., A. S. Lepilin, U. Ya. Margulis, S. M. Stepanov,
L. I. Belen'kiy, T. V. Bromberg, and V. G. Ivliyev. [Ministry of
Health USSR]. Industrial Gamma-Plant for Sterilization of Medical
Materials 170
- Khrushchev, V. G., B. A. Rubin, L. V. Motlitskiy, A. I. Rytov,
N. M. Gaysin, U. Ya. Margulis, V. S. Grammatikati, V. G. Vlasov,
and A. V. Petrov. [Ministry of Health USSR]. Gamma-Plant for
Continuous Irradiation of Potatoes 182
- Frokof'yev, N. S. [Institut ekonomiki AN SSSR - Institute of
Economics AS USSR]. Economic Efficiency of the Use of High-
Capacity Gamma-Plants in the Light and Food Industry 192
- Abdullayev, A. A., Ye. M. Lobanov, A. P. Novikov, and A. A.
Khaydarov [Institute of Nuclear Physics AS UzSSR]. Use of
a Multichannel Scintillation Gamma-Spectrometer for the Analysis
of Rock Specimens 199

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BORMINSKIY, N.K.; GAYSIN, N.M.; VELICHENKO, M.F., red.

[Pilot dyeing, pickling and packaging shop] Opytno-pokazatel'nyi kvasil'no - marinadno - rasfasovochnyi tsekh. Moskva, 1963. 30 p. (I Seriya: Kompleksnaia mekhanizatsiia i avtomatizatsiia predpriatii, no.70)
(MIRA 17:9)

1. Moscow. Tsentral'nyy institut nauchno-tekhnikeskoy informatsii po avtomatizatsii i mashinostroyeniyu.

Gaysin, Sh. A.

USER/Agriculture - Conferences

Card 1/1 Pub. 124 - 31/39

Authors : Gaysin, Sh. A., Cand. of Agricul. Sc.

Title : Biology and agricultural engineering of corn

Periodical : Vest. AN SSSR 26/2, 128-129, Feb 1956

Abstract : Minutes are presented from a special meeting held at the Bashkir Branch of the Acad. of Sc., USSR in Ufa (Nov. 1955) where the biology and the agricultural engineering of corn were discussed.

Institution :

Submitted :

GAYSIN, Sh.A., kand.sel'skokhoz.nauk, otv.red.; GIRFANOV, V.K., kand.
sel'skokhoz.nauk, red.; KHANISLAMOV, M.G., red.; KHAKIMOVA,
I.V., red.; KOPYAKOV, I.A., tekhn.red.

[Problems in the productive use of natural resources of the
Bashkir segment of the Ural Mountain Region; studies by a
comprehensive expedition of the Bashkir branch of the Academy
of Sciences of the U.S.S.R.] Voprosy proizvoditel'nogo
ispol'zovaniia prirodnykh resursov Bashkirskogo Zaural'ia;
materialy kompleksnoi ekspeditsii Bashkirskogo filiala Akademii
nauk SSSR. Ufa, 1957. 89 p. (MIRA 12:5)

1. Akademiya nauk SSSR. Bashkirskiy filial, Ufa.
(Bashkiria--Natural resources)

TAYCHINOV, S.N., doktor sel'skokhozyaystvennykh nauk; ~~GAYSIN, Sh.A., kandidat sel'skokhozyaystvennykh nauk~~; VANYUKOV, Ya.I., kandidat sel'skokhozyaystvennykh nauk; SMIREOV, P.I.

Agricultural system in Bashkiria. Zemledelie 5 no.7:14-20 J1 '57.
(Bashkiria--Agriculture) (MLBA 10:8)

GAYSIN, Sh. A.

USSR / Cultivated Plants. General.

M-1

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72848.

Author : Gaysin, Sh.; Rakitina, A.

Inst : Not given.

Title : On the Role of Pure and Occupied Fallows.

Orig Pub: Bashkortostan auyi khuzhalyfy, 1957, No 9, 13-17;
S.kh. Bashkirii, 1957, No 9, 13-16.

Abstract: No abstract.

Card 1/1

GAYSIN, Sh.A., kand.sel'skokhozyaystvennykh nauk

Possibilities for increasing the production and improving the great
milling qualities of cereals in the Bashkirian A.S.S.R. Zemledelie
§ no.12:35-40 D '60. (MIRA 13:11)

1. Bashkirskiy nauchno-issledovatel'skiy institut sel'skogo
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(Bashkiria—Grain)

GAYSIN, Sh.A.; GARIFULLIN, F. Sh.; DOBROV, A.V.; RADTSEVA, G. Ye.

Agrophysical properties of certain soils in the northern forest-
steppe of Bashkiria. Mat.po izuch. pochv Bash. ASSR no.1:23-
34 '60. (MIRA 14:3)

(Bashkiria--Soil physics)

GAYSIN, Sh.A.

Green fallows in Bashkiria. Zemledelie 27 no.1:29-32 Ja '65.
(MIRA 18:3)

1. Bashkirskiy nauchno-issledovatel'skiy institut sei'skogo
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BABKIN, G.N.; KAZACHISHCHEVA, M.S.; GAYSINA, M. Kh. [deceased] (Chemkent)

The nature of the polarographic maxima of cobalt with nitrate
as the support. Zhur. fiz. khim. 39 no. 1:147-150 Ja '65
(MIRA 19:1)

1. Kazakhskiy tekhnologicheskij institut. Submitted June 1,
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GAYSINOVICH, A.Ye., red.

[Regularities of the individual development of farm animals;
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nykh zhivotnykh; tezisы dokladov nauchnogo soveshchaniia (Mo-
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[Problems in microbiology and immunology; selected works] Problemy mikrobiologii i immunologii; izbrannye trudy. Moskva, Izd-vo Akad. nauk SSSR., 1954. 208 p. (MLRA 7:12)

1. Chlen-korrespondent AN SSSR (for Krasil'nikov). 2. Deystvitel'nyy chlen AN SSSR (for Zdrovakiy)
(Microbiology) (Immunity)

POLEZHAYEV, L.V.; KHRUSHCHOV, G.K., professor, redaktor; GAYSINOVICH, A.Ye.,
redaktor; SIMKINA, Ye.N., tekhnicheskii redaktor. ~~_____~~

[Fundamentals of the mechanics of the development of vertebrates] Os-
novy mekhaniki razvitiia pozvonochnykh. Moskva, Izd-vo Akademii nauk
SSSR, 1954. 286 p. (MIRA 8:5)
(Vertebrates)

GAYSINOVICH, A. E.

"N. D. Nozhin, Biologist of the Sixties and His Role in the Development of Embryology and Darwinism in Russia." (From Unpublished Archive Material) (p. 377) by Gaysinovich, A. E.

SO: Journal of General Biology (Zhurnal Obshchey Biologii) Vol. XIII, No. 5, September-October, 1952.

GAYSINOVICH, A./E.

USSR/ Scientists

Card 1/1 : Pub. 124 - 33/35

Authors : Gaysinovich, A. E., Cand. of Biol. Sc.

Title : First publication of the K. F. Rule works

Periodical : Vest. AN SSSR 7, 119-123, July 1954

Abstract : Memoirs of the first publication of the work by the 19-th century Russian Biologist, Karl Frantsevich Rule (1814-1858).

Institution :

Submitted :

Gel'man, N.S.

GEL'MAN, N.S.; ZENKEVICH, G.D.; SISAKYAN, N.M., otvetstvennyy redaktor;
OPARIN, A.I., akademik, redaktor; KHRUSHCHOV, G.K., redaktor;
GENKEL', P.A., professor, redaktor; GAYBINOVIKH, A.Ye., kandidat
biologicheskikh nauk, redaktor; SIMKINA, Ye.M., tekhnicheskii
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[Biochemistry of plants; a bibliography of Russian literature, 1738-
1952] Biokhimiia rastenii; bibliograficheskii ukazatel' otechestven-
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1. Akademiya nauk SSSR. Otdeleniye biologicheskikh nauk. 2. Chlen-
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GAYSINOVICH, A.Ye.

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his dissertation. Vop. ist.est. i tekhn. no.1:227-231
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(MLRA 9:10)

(Wolff, Caspar Friedrich, 1733-1794)

MECHNIKOV, Il'ya Il'ich; GAYSINOVICH, A.Ya., kandidat biologicheskikh nauk,
redaktor; NOVIKOV, S.A., redaktor; SAKHAROVA, N.V., tekhnicheskij
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[Selected works] Izbrannye proizvedeniia. Pod red. so vstup.stat'ei
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(BLOOD--CIRCULATION) (EMBRYOLOGY)

SOKOLOV, Andrey Vasil'yevich; KHRUSHCHOV, G.K., red.; GENKEL', P.A., prof.,
red.; ~~GAYSIMOVICH, A.Ye.~~, kand.biol.nauk, red.; TYURIN, I.V.,
akademik, red.; POSPELOV, I.A., red.isd-va; GUSEVA, A.P., tekhn.red.

[History of agricultural chemistry in the U.S.S.R.] Ocherki iz
istorii agronomicheskoi khimii v SSSR. Moskva, Izd-vo Akad. nauk
SSSR, 1958. 199 p. (MIRA 12:2)

1. Chlen-korrespondent AN SSSR (for Khrushchov).
(Agricultural chemistry)

GAYSINOVICH, A. (Moscow)

"Elie Metschnikoff et le Darwinisme"

Soviet paper presented at 15th Intl. Congress of Zoology, London, 16-23 Jul 58