

Calculation of the Multiple Scattering of Gamma Rays . SOV/20-126-5-17/69
of the Uranium and Thorium Series

quanta with the energy E_0) were determined. As an example, figure 1 shows the intensity spectrum at $r = 80$ cm for aluminum absorbers (both for uranium and thorium sources). In the following, absorbers consisting of several layers are investigated, namely, plane-parallel layers of equal thickness. The result is practically used for the numerical computation of a geophysical example: a granite plate of known composition, given thickness and density, containing uranium or thorium sources, and lying beneath an inactive layer of the same granite is investigated. In conclusion, the authors briefly discuss in the third part of this article some particularities of the radiation of an active layer, and in the last part special effects of absorption in an inactive layer. Figure 2 shows the spectrum $\lg I \lambda = f(E)$ of the radiation of an active layer after passing through an inactive graphite layer of the thickness h (for various values of h) and of the density 2.7. The E - and h -dependence are discussed. Contributors were : R. I. Anishchenko, Yu. M. Plishkin, I. M. Shepeleva, Yu. P. Bulashevich and the staff members of the Vychislitel'nyy tsentr AN SSSR (Computing Center of the AS USSR).

Card 2/3

Calculation of the Multiple Scattering of Gamma Rays of the Uranium and Thorium Series SOV/20-126-5-17/69

There are 1 figure, 1 table, and 11 references, 5 of which are Soviet.

ASSOCIATION: Institut fiziki metallov Akademii nauk SSSR (Institute of Metal Physics of the Academy of Sciences, USSR)

PRESENTED: January 16, 1959, by L. A. Artsimovich, Academician

SUBMITTED: January 15, 1959

Card 3/3

GALISHEV U.S.

PHASE I BOOK RECOMMENDATION NOV/4/62

Aluminum-zinc alloy. Summary some problems aluminum-zinc alloy
Zalozimskiy on aluminum alloys, Part 6 (Investigation of Anti-
Resistant Alloys, Vol. 6) Moscow, 1960. 319 p. Extra slip inserted.
3,000 copies printed.

Specializing Agency, Aluminum-zinc alloy. Technical manual L. A.
Alloys. Summary some problems aluminum-zinc alloy.

Aluminum-zinc alloy. Summary some problems aluminum-zinc alloy.
Aluminum-zinc alloy. Summary some problems aluminum-zinc alloy.
Aluminum-zinc alloy. Summary some problems aluminum-zinc alloy.
Aluminum-zinc alloy. Summary some problems aluminum-zinc alloy.

Summary: This book is intended for research workers in the field of physics of
alloys and for metallurgists, particularly those working on heat-resistant
alloys.

Summary: This collection of 45 articles deals with various problems in the
production of heat-resistant alloys. Special attention is paid to the
mechanism of deformation of such alloys as aluminum, copper, iron, and nickel.
Various effects and factors of such alloys are analyzed, and ways for increasing
the heat resistance and plasticity are described. Among the special prob-
lems discussed are: electrical conductivity of iron-aluminum alloys in the
solid state; the mobility of atoms in aluminum alloys; the dependence of the
strength of their crystalline structure on the location of atoms in localized zones;
the irreversible thermal transformation of solid bodies, etc. 50 personal
files are mentioned. References follow each article.

Aluminum-zinc alloy. Summary some problems aluminum-zinc alloy.
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GALISHEV, V.S.

Simple derivation of the Kramers-Kronig relationships. Opt. 1
spektr 8 no.3:417-419 Mr '60. (MIRA 14:5)
(Dichroism)

GALISHEV, V.S.; CHEREPANOV, V.I.; RADCHENKO, R.V.

Rules of selection for quadrupole exciton light absorption in cubic crystals. Fiz. tver. tela 3 no.2:484-491 F '61.

(MIRA 14:6)

1. Ural'skiy gosudarstvenny universitet im. A. M. Gor'kogo i Institut fiziki ~~metallov~~ AN SSSR.

(Excitons)

(Absorption of light)

CHEREPANOV, V.I.; GALISHEV, V.S.

Anisotropy of quadrupole exciton absorption of light in cubic crystals.
Fiz.tver.tela 3 no.4:1085-1093 Ap '61. (MIRA 14:4)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo i
Institut fiziki metallov AN SSSR.
(Excitons) (Crystals--Optical properties)

247000,

S/181/62/004/009/042/045
B104/B186

AUTHOR: Galishev, V. S.

TITLE: Anisotropy of exciton absorption in wurtzite-type crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 9, 1962, 2622-2624

TEXT: It is shown that the oscillator strengths

$$f_{\eta, s, c} = \frac{2}{\hbar m \omega} |\langle \eta, S | \sum_{j=1}^N e^{i(\mathbf{r}_j)} (\mathbf{e} \cdot \mathbf{p}_j) | 0 \rangle|^2, \quad (1)$$

✓c

for the electric dipole, electric quadrupole, and magnetic dipole lines are determined by the matrix element of the components of a vector, of a symmetry tensor of rank 2 and of a pseudovector. Taking account of the symmetry properties of wurtzite-type crystals the non-zero matrix elements can be determined. With the aid of the spatial symmetry group C_{6v}^4 it is shown that in wurtzite-type crystals only the following transitions from the ground state into the exciton state are possible: $\Gamma_1 \rightarrow \Gamma_1$.

Card 1/2

Anisotropy of exciton absorption...

S/181/62/004/009/042/045
B104/B186

$\Gamma_1 \rightarrow \Gamma_2$, $\Gamma_1 \rightarrow \Gamma_5$ and $\Gamma_1 \rightarrow \Gamma_6$. It follows from the calculations that the oscillator strengths of all four types of lines depend on the type of polarization of the light (dichroism) and on the angle between direction of propagation and hexagonal crystal axis (anisotropy). If the light propagates perpendicularly to the hexagonal axis all four exciton absorption lines are polarized. There are 2 tables.

JC

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo, Sverdlovsk (Ural State University imeni A. M. Gor'kiy, Sverdlovsk)

SUBMITTED: April 14, 1962 (initially)
May 28, 1962 (after revision)

Card 2/2

GALISHEV, V.S.

Anisotropy of exciton absorption of light in wurtzite type crystals. Fiz. tver. tela 4 no.9:262~~2~~-262~~4~~ S '62. (MIRA 15:9)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo, Sverdlovsk.

(Crystals—Optical properties)

L 11095-63

EWT(m)/BDS--AFFTC/ASD

ACCESSION NR: AP3001174

S/0089/63/014/005/0453/0457

AUTHOR: Galishev, V. S.

TITLE: On the theory of the passage of Gamma-quanta through a substance

SOURCE Atomnaya energiya, v. 14, no. 5, 1963, 453-457

TOPIC TAGS: Gamma quantum, passage theory, photon scattering

ABSTRACT: An attempt has been made to analyze theoretically the passage of γ -quanta through a plane-parallel plate by a method analogous to the one used by Mertens in treating a similar problem involving charged particles. A beam of monochromatic γ -quanta is assumed to be perpendicularly incident on a plate with a limited thickness a in the direction of the x -axis and extending infinitely in the y and z directions. An integral-differential equation describing the spectral distribution of the flux density of scattered photons in the n -approximation has been reduced to a $2n$ -system of integral-differential equations of the first order. Final results have been obtained for $n = 1$ showing the spectral distribution of flux density of scattered γ -quanta at a given distance from a source. Some practical applications of the method will be discussed in a special paper. Orig. art. has: 32 formulas.

Card 1/2

L 58754-65 EWA(h)/EWT(m) DM

ACCESSION NR: AP5012483

UR/0089/65/018/004/0415/0415
539.121.78:539.166

12
11
9

AUTHOR: Galishev, V. S.

TITLE: Numerical calculations for the passage of gamma quanta through matter

19

SOURCE: Atomnaya energiya, v. 18, no. 4, 1965, 415

TOPIC TAGS: gamma quantum, gamma radiation transmission, gamma radiation reflection, absorbing layer, energy accumulation factor

ABSTRACT: A procedure developed by the author earlier (Atomnaya energiya v. 14, 453, 1963) to determine the transmission and reflection of gamma radiation by a plane-parallel layer of finite thickness is used to calculate the energy accumulation factor of radiation passing through the layer. The energy of the plane source was assumed to be 10 MeV. The absorber used was lead. All the calculations were performed with a 'Ural-1' electronic computer. The energy accumula-

Card 1/2

L 58754-65

ACCESSION NR: AP5012483

tion factor is determined by the ratio of the integral flux of the energy carried by all the gamma quanta to the integral flux of the primary quanta. The latter is determined in turn as a function of the gamma quantum flux density. The results of the calculations of the energy accumulation factors and their comparison with data obtained by the Monte-Carlo method by M. Berger and J. Doggett (J. Res. Nat. Bur. Standards v. 56, 89, 1956) are tabulated and are found to be in good agreement for small layer thickness ($\mu_0 a = 0.5 -- 1$). At larger thicknesses ($\mu_0 a = 2 -- 4$) the results given by the calculations are too low, indicating that the method is not applicable for thick absorbers. The author thanks N. A. Ipatova for help in programming the problem and with the calculations. Original article has: 1 table

ASSOCIATION: None

SUBMITTED: : 30Apr64

ENCL: 00

SUB CODE: NP

NR REF SOV: 001

OTHER: 001

Card 2/2 *tip*

GALISHNIKOVA, M. P.

"Vascular and Temperature Reactions on the Irritation of a Sympathetic Nerve."
Cand Med Sci, Acad Med Sci USSR, Moscow, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

69405

SOV/137-59-4-8863

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 4, p 215 (USSR)

5.5310 18.8400
AUTHOR: Galishnikova, Z.P.

TITLE: A Photo-Electric Spectrograph-Quantum Meter

PERIODICAL: Stalingr. prom-st' (Sovnarkhoz Stalingr. ekon. adm. r-na), 1958, Nr 2-3, pp 38 - 39

ABSTRACT: The author describes the design and operational principles of a photo-electric spectrograph-quantum-meter and presents a brief characteristic of the domestic serial DFS-10 type quantum-meter, tested at the "Dneprospetsstal" Plant. Determination of 6 elements was carried out at the laboratory of the Plant (Ni, Si, Mo, Mn, W, V). It took 7 minutes to determine all the aforementioned elements. Utilization of the quantum-meter has shown that the standard specimens and samples must have homogeneous composition and fine-grained structure, since these factors affect in a high degree the accuracy of analyses. The temperature of the device or the room temperature of its location affects considerably the accuracy of the quantum-meter readings. It is recommended to install the device on the first floor upon a concrete anti-vibration foundation. The most

Card 1/2

69405

SOV/137-59-4-8863

A Photo-Electric Spectrograph-Quantum Meter

important advantage of the quantum-meter is the high-speed of analysis: its efficiency amount to 200 analyses carried out by one laboratory worker within 8 hours. It is mentioned that the use of the quantum-meter for steel production control is very efficient. Maximum analysis time for all necessary elements, with the exception of C and S, is three minutes; this will facilitate the conductance of smelting and raise its efficiency. ✓

L.G.

Card 2/2

GALITSNIKOVA, Z. P.

Соболева, З. П., Галитникова, З. П., 20/12-25-8-28/44
Киевский университет, Киев, Украина, УССР
Институт физико-химии металлов, Киев, Украина, УССР
Титов, Л. О., Митрофанов, С. П., Кривобережко, Л. А., Караченко, В. П.,
Киев, Украина, УССР

1) The authors determined the distribution of Si, Fe, Al, Mn, Mg, Cu, Zn, Pb, Sn, and Ni in thin film samples with a sensitivity of 10⁻³-10⁻⁶ by means of a technique from the sample mixed with carbon powder (Si) in the presence of a carbon electrode type "Loba". The spectrograph IXP-22 of a carbon electrode type "Loba" are listed. 2) The authors report on the analytical capabilities of the spectrograph IXP-22 for the analysis of a quartz sample. 3) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 4) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 5) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 6) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 7) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba".

ABSTRACT:

Сод. 1/4

1) Авторы определили распределение Si, Fe, Al, Mn, Mg, Cu, Zn, Pb, Sn, и Ni в тонких пленках с чувствительностью 10⁻³-10⁻⁶ с помощью методики, основанной на смешивании образца с углеродным порошком (Si) в присутствии углеродного электрода типа "Лоба". Перечислены спектрограф ИХР-22 типа углеродного электрода типа "Лоба". 2) Авторы сообщают об аналитических возможностях спектрографа ИХР-22 для анализа кварцевого образца. 3) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 4) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 5) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 6) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 7) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба".

Сод. 2/4

1) The authors determined the distribution of Si, Fe, Al, Mn, Mg, Cu, Zn, Pb, Sn, and Ni in thin film samples with a sensitivity of 10⁻³-10⁻⁶ by means of a technique from the sample mixed with carbon powder (Si) in the presence of a carbon electrode type "Loba". The spectrograph IXP-22 of a carbon electrode type "Loba" are listed. 2) The authors report on the analytical capabilities of the spectrograph IXP-22 for the analysis of a quartz sample. 3) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 4) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 5) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 6) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba". 7) The authors report on the application of a quartz sample for silicon analysis (Si) in the presence of a carbon electrode type "Loba".

ABSTRACT:

1) Авторы определили распределение Si, Fe, Al, Mn, Mg, Cu, Zn, Pb, Sn, и Ni в тонких пленках с чувствительностью 10⁻³-10⁻⁶ с помощью методики, основанной на смешивании образца с углеродным порошком (Si) в присутствии углеродного электрода типа "Лоба". Перечислены спектрограф ИХР-22 типа углеродного электрода типа "Лоба". 2) Авторы сообщают об аналитических возможностях спектрографа ИХР-22 для анализа кварцевого образца. 3) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 4) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 5) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 6) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба". 7) Авторы сообщают об использовании кварцевого образца для анализа кремния (Si) в присутствии углеродного электрода типа "Лоба".

GALITSIN, P. [Halitsyn, P.]

Improve accounting by interfarm building organizations. Sil'. bud.
13 no.2:9-10 F '63. (MIRA 16:2)

1. Starshiy ekonomist Ukrainskoy respublikanskoy kontory Gosbanka.

JANOUK, Emil, inz.; GANON, Vasil, inz.

Faculty of Mechanical Engineering in Bratislava. P z stavby II
no. 8:427-420 '63.

1. Regional Institute of Projects, Bratislava.

SIBOULET, Andre; GALISTIN, Paul

Urogenic syndromes of viral etiology in women. Srpski arh.
celok.lek. 91 no.7:705-710 J1-Ag'63.

1. Urolosko odeljenje Bolnice u Saint Louis-u. (Sef.:prof.dr.
R.Kuss) i Ustrazivacka laboratorija S.N.R.S. Medicinske akademi-
je u Parizu.

*

HICKIEWICZ, Jerzy, mgr inż.; GALISZ, Tadeusz, mgr inż.

Stabilizing systems for rectified voltage and current with magnetic amplifiers. Przegl elektrotech 38 no.10:414-417 0 '62.

1. Katedra Maszyn Elektrycznych, Politechnika Slaska, Gliwice.

SHEMYAKINA, A.A.; GALITAROV, S.S.; SUYEVALOVA, L.K.

Determination of the ferment, cystinase, in cultures of diphtheria bacilli. Lab.delo 7 no.7:57-58 J1 '61. (MIRA 14:6)

1. Dorozhnaya sanitarno-epidemiologicheskaya stantsiya Sverdlovskoy zheleznoy dorogi (nachal'nik G.A.Klyukova).
(ENZYMES) (CORYNEBACTERIUM DIPHTHERIAE)

GALITOVSKIY, V. G.

Jan 51

USSR/Electricity - Motors
Generators
Insulators

"Experiments in Impregnating Windings With Insulating Varnishes During
Production," Engr., V. G. Galitovskiy

From Energet, No 1, pp 11-12

Advantages of the method described for impregnating wire during winding
process are: it can be done by small repair shops, cuts time required
for the process (one bath of concentrated varnish instead of usual two),
and reduces machine out-time.

252T34

1. ГАИТОВСКИЙ, В.
2. USSR (600)
4. Electric Machinery - Testing
7. Testing the winding of electric machines by increased voltage. Rab.energ., 2, no. 12, 1952. no

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

GALITSKIY, V. G.

Electric Transformers

Limiting the idle operation of a welded transformer. Rab. energ. 3 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

GALITOVSKIY, V.G.

Instrument for controlling the proper connection of the pole coils of electric machines with electromagnetic face chucks. Prom.energ. 10 no.5:17-19
My '53. (MLRA 6:5)

(Milling machinery) (Electric apparatus and appliances)

GALITOVSKIY, V.G.; ASKINAZI, A.I., redaktor; DOKUKINA, Ye.V., redaktor;
MIKHAYLOVA, V.V., tekhnicheskii redaktor

[Restoration of winding wires] Restavratsiia obmotochnykh provodov.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoii i tsevetnoi
metallurgii, 1954. 77 p. [Microfilm] (MLRA 7:10)
(Electric wire)

GALITOVSKIY, V.G., inshener.

Blocks for testing electric motors under load. Energetik 2 no.5:17-19
My '54. (MLRA 7:6)
(Electric motors--Testing)

GALITOVSKIY, V. G.

AID P - 687

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 22/24
Author : Editors
Title : V. G. Galitovski's article: "Limitation of Idle Running
of a Welding Transformer". ("Rabochiy Energetik", 1953 #2)
Periodical : Energetik, 7, 37, J1 1954
Abstract : Replying to readers' questions, the editors explain that
the arrangement proposed by V. G. Galitovski is non-
expedient and cannot be recommended for application.
Institution : None
Submitted : No date

GALITOVSKIY, V.G.

AID P - 1910

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 15/25

Author : Galitovskiy, V. G., Eng.

Title : ~~Winding of electric motors by infrared radiation~~
Drying of windings of electric motors by infrared radiation

Periodical : Energetik, no.2, 24-26, F 1955

Abstract : The use of special infrared bulbs for drying of windings of electric motors has been widely accepted at plants in the electrical industry and at other plants repairing electrical equipment. The author describes a simple electric furnace for drying of windings of various electric equipment by radiation with infrared lamps, or with plain incandescent, bulbs. Three diagrams and one table.

Institution: None

Submitted : No date

GALITSA, V.

GALITSA, V., inzhener; EMMA, S., inzhener.

Electric power economy in the TSiurupa flour mills. Muk.-elev.
prom. 20 no.1:26-28 Ja '54. (MLRA 7:7)

1. Moskovskiy kombinat im. TSyrupy.
(Moscow--Flour mills) (Flour mills--Moscow) (Electric power)

EMMA, S., inzhener; GALITSA, V., inzhener.

Use of radio condensers to increase the cosine phi. Muk.-elev.prom.
20 no.10:27-29 0 '54. (MIRA 7:12)

1. Mel'nichnyy kombinat im. TSyurupy.
(Condensers (Electricity))

EMMA, S., inzhener; GALITSA, V., inzhener.

Intercom system in the grain elevator of the TSiurupa Flour Milling
Combine. Muk.-elev.prom. 21 no.11:21 N '55. (MIRA 9:4)

1. Mel'nichnyy kombinat imeni TSiurupy.
(Intercommunication systems) (Grain elevators)

ACC NR: AP7002879

(A,N)

SOURCE CODE: UR/0201/66/000/004/0032/0043

AUTHOR: Galitseyskiy, B. M.; Danilov, Yu. I.; Dreytser, G. A.; Kalinin, E. K.; Koshkin, V. K.

ORG: Moscow Aviation Institute (Moskovskiy aviatsionnyy institut)

TITLE: Convective heat exchange in a tube under pulsations of a gaseous heat-carrying medium with frequency corresponding to the second resonant harmonic

SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 4, 1966, 32-43

TOPIC TAGS: heat exchanger, heat transfer, heat carrier, thermodynamic calculation, gas flow

ABSTRACT: In view of the limited number of published theoretical and experimental papers devoted to heat exchange under a pulsating flow, such as would be produced when the heat-carrying medium is pumped with a compressor, the authors investigated the influence of velocity (or pressure) pulsations on heat transfer at high frequencies, when the influence of the pulsations of the local heat transfer coefficient is expected to be due essentially to changes in the distribution of the turbulent conductivity along the radius in a given section of the channel. The tests were made in an acoustically closed tube at a frequency corresponding to the second resonant harmonic, when a complete standing wave subtended the length of the tube. A criterial relation is derived for the relative heat transfer in such a case in terms of the Nusselt, Reynolds, and Prandtl numbers and the flow parameters. The tests were made

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ACC NR: AP7002879

with air in a specially calibrated stainless-steel tube heated with low-voltage alternating current. Plots are presented of the distribution of the outside wall temperature and of the gas temperature along the tube, the distribution of the relative heat transfer along the tube for various pressure ratios and various Reynolds numbers, the dependence of the relative heat transfer at the nodes and anti-nodes and of the speed of the standing wave on the relative harmonic, and the distribution of the heat transfer along the standing wave. The results show that the resonant vibrations of the heat-carrying medium lead to an appreciable increase in the heat transfer, by a factor 2 - 2.3 over the stationary value. Orig. art. has: 6 figures and 21 formulas.

SUB CODE: 20, 13/ SUBM DATE: 01Apr66/ ORIG REF: 006/ OTH REF: 006

Card 2/2

L 54052-65
WR/GS

EWT(d)/EWT(1)/EPF(c)/EPF(n)-2/EPR/EPA(bb)-2 Pr-4/Pe-4/Pu-4

ACCESSION NR: AT5010484

UR/0000/65/000/000/0110/0125

AUTHOR: Danilov, Yu. I. (Candidate of technical sciences); Galitsovskiy, B. M.
(Engineer)

TITLE: Design of heat exchangers with internal heat sources

SOURCE: Issledovaniye teploobmena v potokakh zhidkosti i gaza (Investigation of heat exchange in liquid and gas flows). Moscow, Izd-vo Mashinostroyeniye, 1965, 110-125

TOPIC TAGS: heat exchanger design, linear channel heat exchanger, multiple layer heat exchanger, internal heat source

ABSTRACT: Design engineers must often construct heat exchangers with internal heat sources (e.g., electric heaters, chemico-technological processes, etc.). This paper derives formulas for the calculation 1) of the temperature field in channels with internal heat sources; 2) of the maximum field in the case when the physical properties of the coolant are temperature sensitive and the heat transfer coefficient depends on the temperature factor; 3) of the shortest channel-type heat exchanger for a given heat transfer; 4) of a multilayer heat exchanger with internal heat source; and 5) of gas-dynamic pressure losses within a linear-channel heat exchanger. Orig. art. has: 69 formulas and 3 figures.

Card 1/2

L 54052-65

ACCESSION NR: AT5010484

ASSOCIATION: None

SUBMITTED: 11Dec64

ENCL: 00

SUB CODE: TD

NO REF SOV: 001

OTHER: 001

Card 2/2

53731-5 EWI(d)/EWI(1)/EPF(c)/EPF(n)-2/EPR/EPA(bb)-2 Ex-4/Ps-4/Pu-4 WI/GS
ACCESSION NR: A15010485 UR/0000/65/000/000/0126/0136 33

AUTHOR: Danilov, Yu. I. (Candidate of technical sciences); Galitskiy, B. N. (Engineer); Shvaynov, H. I. (Engineer) B+1

TITLE: Design of heat exchangers with internal heat sources and heat sinks

SOURCE: Issledovaniye teploobmena v potokakh zhidkosti i gaza (Investigation of heat exchange in liquid and gas flows). Moscow, Izd-vo Mashinostroyeniye, 1965, 126-136

TOPIC TAGS: heat exchanger design, heat exchanger element, multilayer heat exchanger, point sink heat exchanger, internal heat sources, internal heat sink

ABSTRACT: The exact calculations in connection with the design of heat exchangers containing internal heat sources and sinks are quite difficult; consequently, it is very important to have even approximate computational formulas. Such expressions are derived for the case of a plate-like element. Formulas are also given for the temperature distribution within a multilayer wall with internal heat sources and sinks. The authors note that the method of point sinks permits simple calculations of even the most complicated heat exchange devices with internal sources and sinks. However, the method supplies sufficient accuracy only in the case of a sufficiently small size of the relative hydraulic diameter.

Cold 1/2

L 53731-65

ACCESSION NR: AT5010485

Orig. art. has: 38 formulas and 3 figures.

ASSOCIATION: None

SUBMITTED: 11Dec64

ENCL: 00

SUN CODE: 1D

FO REF SOV: 001

OTHER: 001

llc
Card 2/2

GALITSINSKIY, P.K.

Chief Agronomist, Uzbek Ministry of Agriculture

Up to Date Practices in Cotton Culture

Soviet Source: N: Pravda Vostoka Tashkent
18 May 1947

Abstracted in USAF "Treasure Island" Report No. 23932, on file in Library of Congress,
Air Information Division.

GALITSINSKIY, P. K.

27794. GALITSINSKIY, P. K. -- Organizatsiya agronomicheskikh vchastkor pri MTS.
Sots. Sel. khoz-Vo Uzvekistana, 1949, No. 2, S. 26-30

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

GALITSINSKIY, P.K., zasl. agronom Uzbekskoy SSR; KARTASHOV, B.A., red.;
SALAKHUTDINOVA, A., tekhn. red.

[Best cotton varieties in the Uzbek S.S.R.] Luchshie sorta khlop-
chatnika v Uzbekskoi SSR. Tashkent, Gos.izd-vo Uzbekskoi SSR,
1960. 26 p. (MIRA 14:12)

(Uzbek--Cotton growing)

GALITSINSKIY, Panteleymon Konstantinovich; DEMIDOV, Sergey Ivanovich;
OBUKHOV, Mikhail Nikolayevich; SAMOYLOV, Andrey Yemel'yanovich;
GRUSHKIN, A., red.; ABBASOV, T., tekhn. red.

[Cotton varieties in Uzbekistan; results of state variety testing for 1950-1959] Sorta khlopchatnika v Uzbekistane; itogi gosudarstvennogo sortoispytaniia za 1950-1959 gg. Tashketn, Gosizdat, UzSSR, 1962. 219 p. (MIRA 15:7)
(Uzbekistan---Cotton---Varieties)

ASLANYAN, M. M.; ALEKSANYAN, S. V.; GALITSKAYA, A. A.; LOGVINOVA, R. A.

"Reproductive function of Askania merino ewes in connection with feeding type."

report submitted for 5th Intl Cong, Animal Reproduction & Artificial Insemination,
Trent, Italy, 6-13 Sep 64.

GALITSKAYA, A.Ya.; KOROLEV, V.G.

Carboniferous of northern Kirghizia. Mat po geol. Tian'-Shania
no.1:43-75 '61. (MIRA 17:2)

GALITSKAYA, A.Ya.; DYADYUCHENKO, L.B.

Stratigraphy of the Carboniferous sediments of the Kck-Tyrim-Too
and the western extremities of the Moldo-Too. Mat. po geol. Tian'-
Shania no.4:89-105 '64. (MIRA 17:10)

L 56552-65 EWP(m)/EWG(v)/EWT(l)/FS(v)-3/EEC(a)/EEC(j)/EEC(r)/EWA(d) Pe-5/
Pg-4/Po-4/Pq-4 GW

ACCESSION NR: AP5015667

UR/0293/65/003/003/0391/0394
629.19:531.38

53
51
B

AUTHORS: Galitskaya, E. B.; Kiselev, M. I.

TITLE: Radiation orientation of cosmic devices

SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 3, 1965, 391-394

TOPIC TAGS: radiation balance, satellite orientation, satellite orientation stability, solar radiation absorption, solar radiation effect, space vehicle design

ABSTRACT: An analysis was made of the basic principles involved in using solar radiation pressure to control the orientation and stability of space craft. This idea was first proposed in 1961; since it is now feasible to build space craft with large enough dimensions to provide the necessary orientating rotational moments, the idea is explored further. The mathematical analysis is on a model consisting of three pairs of flat blades, one lying in each plane of the coordinate system. The orientation between the moving reference system attached to the object and the earth's fixed coordinate system is established on the basis of Euler angles. By using matrix transformations, the expressions for the rotational moments are developed. These expressions indicate that light striking a blade

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L 56552-65

ACCESSION NR: AP5015667

8

at an angle provides the necessary controlling turn to orientate the space craft as desired. It is noted that a "radiation precession" also arises and must be considered in the controlling problem. An investigation of small perturbations of a spherically symmetrical object about the ideal orientation reveals that the ratio of the maximum auxiliary rotational moments to the controlling moments is equal to 3.5% of the basic controlling moments for each degree of deflection from equilibrium. A "radiation propeller" (see Fig. 1 on the Enclosure) was studied to evaluate the magnitude of the rotational moment and the coefficient of utilization of the solar pressure. Two blades with an angular span ϕ lie in the XOY plane. The blades are free to turn to an angle β about an axis lying in the XOY plane. The light strikes along OZ. The rotational moment results from the forced component perpendicular to OZ. The rotational moment, therefore, is 0 with $\beta = 0$ or $\pi/2$ and is shown to be a maximum when $\beta \approx 35$ degrees. With β at 35 degrees, an ideal perfect reflector would give a maximum coefficient of solar pressure utilization of 38.5%. A half white, half black coating of a space craft would harness this solar pressure to provide an orientation with the white (reflecting) side of the space craft to the sun. This would have the additional advantage of improving the space craft's radiation balance. The expression is presented for the condition of stabilization of a black-white sphere provided with "a radiation propeller" in respect to the "radiation precession." The spectral dependency of

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L 56552-65

ACCESSION NR: AP5015667

2

the absorption also was considered. The authors thank K. P. Staryukovich and G. A. Skuridin. Orig. art. has: 3 figures and 20 formulas.

ASSOCIATION: none

SUBMITTED: 20May64

ENCL: 01

SUB CODE: NG, SV

NO REF SOV: 003

OTHER: 005

Card 3/4

L 56552-65

ACCESSION NR: AP5015667

ENCLOSURE: 01

0

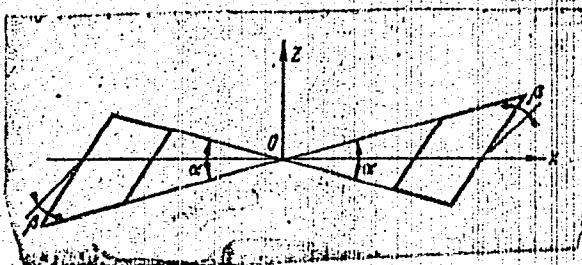


Fig. 1.

Card

MB
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AUTHOR: GALITSKAYA, E.I., GARMASH, V.A., LEBEDEV, D.S. PA - 2824
TITLE: The Analytical Computers for the Statistical Analysis of
Television Communications. (Primeneniye schetno - analiticheskikh
mashin dlya statisticheskogo analiza televizionnykh soobshcheniye
Russian)
PERIODICAL: Radiotekhnika, 1957, Vol 12, Nr 3, pp 53 - 56 (U.S.S.R.)
Received: 5 / 1957 Reviewed: 6 / 1957
ABSTRACT: Work in the case of the statistical analysis of an image is divided
into two parts: The quantization and writing down of the values
of the brightness coefficient of some elements on an intermediate
member as which the standard telegraphy perforated band is used,
the transmission of data from the perforated band to the perforated
cards and evaluation of cards by means of analytic computers. A
block scheme, which had been developed by one of the authors, is
described. This serves for writing down the values of the bright-
ness coefficient of the image elements. The possibility is shown
how to obtain multidimensional functions of the probability of a
distribution of brightness graduation of a television communication
by means of analytical computers. As communication, sections of
cinema films were used. A onedimensional function for the distribution
of probability, a correlation function, and the entropy value com-
puted according to a twodimensional function of the probability
distribution are shown for two images. The method of investigation

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The Analytical Computers for the Statistical Analysis of
Television Communications. PA - 2824

described and the apparatus produced make the investigation of
functions of the probability distributions of a higher order
possible. As eighty different ten digit numbers can be put on each
perforation card, functions of probability distributions up to the
eightieth order can be investigated.
(3 illustrations and 6 citations from Slav publications)

ASSOCIATION: Not given.
PRESENTED BY:
SUBMITTED: 17.12.1956
AVAILABLE: Library of Congress.

Card 2/2

L 31193-65 EWT(m)/EPF(c)/EFR/EWP(j)/T
ACCESSION NR: AP5007525

1c
Pc-1/Pr-1/Ps-1 RPI RM/WW 30
S/0316/64/000/006/0043/0046 B

AUTHOR: Mamedaliyev, Yu. G. (Deceased); Mamedaliyev, G. M.; Aliyev, S. M.;
Sarkisyan, A. A.; Agayeva, H. A.; Galitskaya, G. I.

TITLE: Cationic polymerization of styrene in the presence of titanium tetrachloride

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 6, 1964, 43-46

TOPIC TAGS: polystyrene synthesis, cationic polymerization, polymerization catalyst, titanium tetrachloride

ABSTRACT: The paper reports on the principal results of a study of an exhaustive cationic polymerization of styrene in the presence of various solvents (benzene, ethylbenzene, heptane, cyclohexane). The effect of duration of polymerization on the yield and properties of the polymers was investigated at -15, 0, 20, and 40C. The effect of the amount of $TiCl_4$ on the polymerization of styrene was studied at 20C for 1 min, 30 min, and 60 min. The optimum conditions of the exhaustive polymerization of styrene were thus determined: temperature 20C, time 30-60 min, $TiCl_4$ concentration 0.46×10^{-3} molar. It was found that the polymers obtained

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L 34193-65

ACCESSION NR: AP5007525

had molecular weights between 3,000 and 15,000 and melting points of 60 to 100C.
As in the case of benzene, in the presence of ethylbenzene, heptane, and cyclo-
hexane the polymerization proceeds very rapidly and produces similar polymers.
Orig. art. has: 3 tables.

ASSOCIATION: None

SUBMITTED: 00

NO REF SOV: 006

ENCL: 00

SUB CODE: 0C

OTHER: 007

Card 2/2

KUZIN, I.A.; GALITSKAYA, I.A.; TAUSHKANOV, V.P.

Precipitation of ammonium uranyl disulfate from nitrate
solutions. Radiokhimiia 5 no.1:89-93 '63. (MIRA 16:2)
(Ammonium uranyl sulfates)
(Nitrates)

GALITSKAYA, N. I.

М. А. Миллер
Ускорение планетарных структур высокопотенциальными
электростатическими полями.

10 часов
(с 16 до 22 часов)

Д. Н. Вострикович,
Р. А. Громовский
Замедленные системы в виде ступенчатой функции
для СВЧ

С. Г. Константинов
Отклоненная система с бегущей волной

И. М. Клейнов,
И. В. Галочкин,
И. М. Клейнович,
И. В. Клейнов

Исследования затронутых волной в пространстве
взаимодействия пробирки (ВЧ) с внешним полем
для построения траекторий заряженных частиц

Г. А. Матушкин,
Е. А. Матушкин

Замедленные бегущие волны фильтры для приема сигналов
с бегущей волной электронного диода

М

11 часов
(с 10 до 16 часов)

Советский методика с помощью ферритовых
устройств СВЧ

В. Н. Зубов, М. С. Шенников
Исторические вопросы теории параметрических устройств
тока

В. Н. Тучинский
К теории ферритовых устройств

В. Н. Тучинский,
Ю. Т. Доронин,
В. В. Карачинский
Экспериментальные исследования ферритовых устройств

А. Д. Шенников,
И. З. Шенков

Исторические результаты исследования ферритовых
устройств

А. С. Тарп

К теории параметрических устройств с взаимно
перпендикулярными сигналами

М

report submitted for the Confidential Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in. A. S. Popov (VSEVE), Moscow,
8-12 June, 1959

SHUPISHIN, A.V.; VOBOZHEV, G.G., red.; GALITSKAYA, M.A., red.

[Introduction to the course "Geomorphology"; textbook for second-year correspondence students of the Geography Faculty] Vvedenie k kursu "Geomorfologiya;" uchebnoe posobie dlia studentov-zaochnikov II kursa geograficheskogo fakul'teta. Kazan', Kazanskii gos. univ., 1964. 18 p. (MIRA 18:5)

PODYMOV, V.N.; ABRUKOV, S.A., dots., red.; GALITSKAYA, M.A., red.

[Measuring the rate of gas flow by means of a capillary
rheometer; a textbook] Izmerenie raskhoda gazov kapilliarnym
reometrom; uchebnoe posobie. Kazan', Kazanskii gos. univ.,
im. V.I.Ul'ianova-Lenina, 1964. 12 p. (MIRA 18:3)

GALITSKAYA, N.A.

Acetylcholine content of denervated and embryonal muscles of
different animals. Trudy fiziol. inst. 4:293-298 '49. (MIRA 9:5)
(MUSCLE) (ACETYLCHOLINE)

PA 45/49T78

USSR/Medicine - Physiology, Experimental Mar/Apr 49
Medicine - Nervous System, Physiology

"Analysis of the Mechanism of Tonicotory Phenomena and Its Retardation: I, Conditions Surrounding the Development of the Retardative Action of the Motor Nerves on the Effect of the Motor-Denervated Lingual Muscle," N. A. Galitskaya
Physiol Inst Imeni Acad I. P. Pavlov, Acad Sci USSR, 6 pp

"Fiziol Zhur SSSR" Vol XXIV, No 2

Describes experiments on cats and dogs. Irritation of motor nerve has retarding influence on
45/49T78

USSR/Medicine - Physiology, (Contd) Mar/Apr 49
Experimental

acetylcholine effect of motor-denervated lingual muscles, similar to influence on effects obtained from irritating n. lingualis (Ginetsinskiy and Orbeli, 1927). This retardation develops more clearly in desympathized muscles. Submitted 15 Mar 47.

45/49T78

GALITSKAYA, N. A.

Analysis of the mechanism of tetanometer phenomena and its inhibition. II. Effect of atropine. N. A. Galitskiya (Acad. Sci., U.S.S.R.). *Fiziol. Zhur. (J. Physiol.)* 35, 881-8 (1940); cf. *ibid.* 35, 210 (1940). Atropine does not eliminate the acetylcholine effects in the lingual nerve (in cats and dogs) observed in motor-denervated tongue muscle. Nicotine, however, does eliminate the effects. Attempts to observe an inhibiting effect from the motor nerve, in atropinized state, on the ability of the muscle to react to acetylcholine or to local irritation were neg. If the inhibiting action is allowed to develop, administration of atropine removes this block and the muscle again reacts to acetylcholine or local stimulation. G. M. K.

GALITSKAYA, N.A.

Effect of exclusion of various components of innervation of the skeletal muscle on its functional properties. *Fiziol. zh. SSSR* 39 no.6:710-718 Nov-Dec 1953. (CIML 25:5)

1. Laboratory of Nerve Trophism of the Institute of Physiology imeni I. P. Pavlov of the Academy of Sciences. USSR, Leningrad.

GALITSEAYA, N.A.

Effect of excision of various section of the cerebral cortex on functional properties of the skeletal muscles and on development of muscular atrophy. Trudy Inst. fiziol. 3:516-530 '54. (MLRA 8:2)

1. Laboratoriya nervnoy trofiki. Zaveduyushchiy A.V.Tonkikh.
(MUSCLES, physiology,
eff. of cerebral decortication)
(CEREBRAL CORTEX, physiology,
eff. of decortication on musc.)

GALITSKAYA, N.A.
GALITSKAYA, N.A.

Effect of tenotomy and denervation on functional properties of the striated muscle. Trudy Inst. fiziol. 3:531-543 '54. (MLRA 8:2)

1. Laboratoriya nervnoy trofiki. Zaveduyushchiy A.V. Tonkikh. (MUSCLES, physiology, eff. of tenotomy & denervation on striated musc.)

GALITSKAYA, N.A.

Effects of excluding various components of the innervation of a skeletal muscle upon its functional properties. *Fiziol.shur.* 39 no.6:710-718 N-D '54.

(MLBA 6:12)

1. Laboratoriya nervnoy trofiki Instituta fiziologii im. I.P.Pavlova.
Akademii nauk SSSR, Leningrad.

(Muscles)

GALITSKAYA, N. A.
GALITSKAYA, N.A.

Changes in the sensitivity of skeletal muscles to acetylcholine
as induced by stimulations of the sympathetic chain and the
cerebellum. Mat. po evol.fiziol. 1:91-97 '56. (MIRA 11:1)
(NERVOUS SYSTEM, SYMPATHETIC)
(CEREBELLUM) (MUSCLES--INNERVATION)
(ACETYLCHOLINE)

GALITSKAYA, N.A.

Changes in the functional properties of the transverse muscles
and atrophies connected with transections of the spinal cord
at different levels. Trudy Inst.fiziol. 8:377-384 '59.

(MIRA 13:5)

1. Laboratoriya nervnoy trofiki (saveduyushchaya - A.V. Tonkikh)
Instituta fiziologii im. I.P. Pavlova AN SSSR.

(SPINAL CORD) (MUSCLES) (ATROPHY, MUSCULAR)

GALITSKAYA, N.A.

Role of injury and stimulation of the spinal cord in the development
of contracture arising following its section. Fiziol.zhur. 47
no.5) 566-574 My '61. (MIRA 14:5)
(SPINAL CORD--WOUNDS AND INJURIES) (CONTRACTURE)

GALITSKAYA, N.A.

Role of the sympathetic nervous system in the development of
contractures originating in traumas of the spinal cord. Fiziol.
zhur. 51 no.4:506-512 Ap '65. (MIRA 18t6)

1. Institut evolyutsionnoy fiziologii i biokhimi imeni Sechenova
AN SSSR, Leningrad.

GALITSKAYA, N.A.

Role of the innervation of the posterior root in the motor function
of the stomach in the ontogeny of puppies. Fiziol. zhur. 51 no.8:
990-996 Ag '65. (MIRA 18:7)

1. Institut evolyutsionnoy biokhimii i fiziologii imeni Sechenova
AN SSSR, Leningrad.

M 05791-67 EMT(m)/EWP(j) DS/RM
ACC NR: APS030841 (A, N) SOURCE CODE: UR/0191/66/000/009/0003/0005

AUTHOR: Pashkov, A. B.; Galitskaya, N. B.; Lyustgarten, Ye. I.

ORG: none

TITLE: Copolymerization of 2-vinylpyridine with divinylbenzene

SOURCE: Plasticheskiye massy, no. 9, 1966, 3-5

TOPIC TAGS: copolymerization, polymerization catalyst, synthetic material, vinyl plastic, high polymer, copolymer, block copolymer

ABSTRACT: Copolymerization of 2-vinylpyridine with divinylbenzene was studied at 80-100°C using benzoyl peroxide, tert-butylperbenzoate, and mixtures of them in various ratios (from 1:3 to 3:1) as initiators. The object of the work was to define the optimum conditions for preparing a highly cross-linked copolymer, a useful anion-exchange resin. The initiator concentration in the reaction mixtures was 0.025-0.1 moles/l and the polymerization process was 15 min to 3 hrs. The yields of both the low molecular material and the highly cross-linked product are tabulated. At a constant temperature an increase in the initiator concentration from 0.025 to 0.1 moles/l was found to result in a 17-27% increase in the yield of the highly cross-linked product. At a constant initiator concentration, an increase in temperature from 80° to 100°C was found to result in a 22-25% increase in the yield of the highly cross-linked product.

Card 1/2

UDC: 678.766.22-134.65

L 08791-67

ACC NR: AP6030841

The lower the copolymerization temperature the higher was the yield of the highly cross-linked product. The maximum yield (97.5%) of the highly cross-linked 2-vinyl-pyridine-divinylbenzene copolymer was achieved at a 1:1 monomer ratio. The density was 1.1 g/cm³. Orig. art. has: 5 figures and 2 tables.

SUB CODE: 07/ SUBM DATE: 00/ ORIG REF: 009/ OTH REF: 000

Card 2/2 nst

GALITSKAYA, N.F.

Sketch of the physical geography of lower Dnieper Valley sands.

Uch.zap. Kursk.gos.ped.inst. no.4:291-307 '57.

(MIRA 12:4)

1. Iz kafedry geografii Kurskogo gosudarstvennogo pedagogicheskogo instituta.

(Dnieper Valley—Sand)

HESTEREN, D.Ya.; GALINSKIYA, N.R.; ZEMNOVICH, A.L.; SPINCHENKO, Ye.A.

Detection of incomplete autoantibodies in multiple sclerosis patients using the modified indirect Coombs' test. Zhurn. nevro. i psikh. 65 no.11:1606-1610 '65. (JPRS 18:11)

L. Belorusskiy institut epidemiologii, mikrobiologii i gigieny (direktor V.I.Votyakov) i Belorusskiy institut nevrologii (direktor I.P.Antonov), Minsk.

GALITSKAYA, S.I.

Clinical aspects of atypical mastoiditis (with whole tympanic membrane) Vest. oto-rin. 16 no.4:37-42 J1-Ag '54. (MLRA 7:8)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. prof. A.G.Ikhachev)
I. Moskovskogo ordena Lenina meditsinskogo instituta.
(MASTOIDITIS,
*atypical cases)

GALITSKAYA, S.I.

[Clinical aspects of atypical mastoiditis with an intact tympanic membrane] Klinika atipichnykh mastoiditov pri tseloi barabannoi pereponke. Moskva, Medgiz, 1957. 90 p. (MIRA 11:4)
(MASTOID PROCESS--DISEASES)

GALICHAYA, T.

83. Finansirovaniye Prosycshcheniya I Zdravookhraneniya. Ucheb. Material.
M., 1954 (28 s. 21SM.) (Vsesoyuz. Zaoch. Fin. In-t M.-Va Vyssh. Obrazovaniya
Sssr.) 2.500 Ekzbespl.-- (54-54371)

332742.4:614.26379.11

SC: Knizhnaya, Letopis, Vol. 1, 1955

GVOZDETSKIY, Nikolay Andreyevich; MIKHAYLOV, Nikolay Ivanovich;
GALITSKAYA, T.M., red.; KONOVALYUK, I.K., mlad. red.;
KOSHELEVA, S.M., tekhn. red.

[Physical geography of the U.S.S.R.: Asiatic part] Fizi-
cheskaia geografiia SSSR: Aziatskaia chast'. Moskva,
Geografiz, 1963. 571 p. (MIRA 17:2)

LYAPUNOV, Boris Valerianovich; GALITSKAYA, I.M., red.,
POLOZHENTSEVA, T.S., mlad. red.

[Our planet today and tomorrow; sketches on the way man
conquers the depths of the earth, the ocean, the atmos-
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