

SOKOLOV, V.S.; MEDVEDEV, P.F.

New silage plants and the prospects of their introduction
into agricultural practice. Biul. Glav. bot. sada no.53:
95-99 '64. (MIRA 17:6)

1. Botanicheskiy institut imeni V.L. Komarova Akademii
nauk SSSR.

SMOL'SKIY, N.V. [Smol'ski, N.V.]; SOKOLOV, V.S. [Sokolau, V.S.]; CHURILOV,
A.K. [Chulylau, A.K.]

Second seminar-conference on new ensilage plants. Vestsi AN
BSSR Ser. biial. nav. no.3:140-141 '64 (MIRA 18:1)

SOLOV, V.S.: SOLOV, V.P.

Problem of new tanning plants in the U.S.S.R.. Bot. zhur. 49 no.8:
1188-1195 Ag '64. (MIRA 17:11)

I. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

SECRET, V.

The group of Tibet-Himalayan region... of the... in
Ladakh... in Tibet... by...
Belonged to...
MIRA 1711

BOKOLOV, V.I.; ZAFERINA, T.P.

First conference on licorice. Bot. zhur. 49 no.9:1382-
1385 S '64. (MIRA 17:12)

1. Botanicheskiy institut im. V.I. Komarova AN SSSR, Leningrad.

SOLOV, V.S.; GRASHCHENKOV, A.Ye.

First all-Union symposium on aromatic plants. Bot. zhur. 49 no. 11 (1964)
1684 N 164. (MIRA 18:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.

SOKOLOV, V.S.

New silage plants. Rast. res. 1 no.1:97-101 '65.

(MIRA 18:6)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.

SMOL'SKIY, N.V.; SOKOLOV, V.S.; CHURILOV, A.K.

Second Seminar-Conference on New Silage Plants. Rast. res. 1
no.1:154-157 '65. (MIRA 18:6)

1. Tsentral'nyy botanicheskiy sad AN BSSR, Minsk.

SOKOLOV, V.S.

In the Botanical Institute of the Academy of Sciences of the
Armenian S.S.R. Bot. zhur. 50 no.4:595-598 Ap '65.

(MIRA 18:5)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

BALABAS, G.M.; BUYKO, E.A.; GRASHCHENKOV, A.Ye.; SATSYPEROVA,
I.F.; SANDINA, I.B.; SINITSKIY, V.S.; SOKOLOV, V.S.

[Introduction of medicinal, aromatic, and technical plants;
results of the work of the introduction nursery of the
Botanical Institute of the Academy of Sciences of the
U.S.S.R. for 250 years] Introduktsiia lekarstvennykh, aro-
matischeskikh i tekhnicheskikh rastenii; itogi rabot intro-
duktсионного питомника BIN AN SSSR za 250 let. Moskva,
Nauka, 1965. 424 p. (MIRA 18:9)

1. Akademiya nauk SSSR. Botanicheskiy institut.

BALABAN, G.M.; DAN YEREMEEV, ...

History of the Botanical Institute of the Academy of Sciences of the U.S.S.R.
Rastres. 1 m. 3:164-166. (NISA 18:10)

1. Botanicheskiy Institut Akad. Nauk SSSR, Leningrad.

SCHOLOV, V.S.; GRASHCHENKOV, A.Ye.

Sixth meeting of the Coordinating Council of the Ministry of Agriculture of the U.S.S.R. on the problem "Development of scientifically justified measures for the increase of production and improvement of the quality of oilseed and aromatic plants." East.res. 1 no.3:483-484 '65. (MIRA 18:10)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.

MURAV'YEV, I.A.; SOKOLOV, V.S.

State and prospects of the study and utilization of licorice
in the national economy of the U.S.S.R. Rast. res. 1 no.2:177-
185 '65. (MIRA 18:11)

1. Pyatigorskiy farmatsevticheskiy institut i Botanicheskiy
institut imeni Komarova AN SSSR, Leningrad.

7/11/65
[Faint, illegible text]

[Faint, illegible text] AN 8018 35
(MIR: 19-1)

L 22290-66 EWA(h)/EWP(k)/EWT(d)/EWT(m)/ETC(m)-6/EWP(w)/EWP(v) IJP(e) EM/WY
ACC NR: AP6007308 UR/0096/66/000/003/0053/0057 65

AUTHOR: Karpin, Ye.B. (Candidate of technical sciences); Kostyuk, A.G. (Candidate of technical sciences); Zuyeva, G.K. (Engineer); Piruyeva, L.V. (Engineer); Skolov, V.S. (Engineer)

ORG: MEI-KTZ

TITLE: Calculation of unsteady state temperature fields in plates and shells using a computer

SOURCE: Teploenergetika, no.3, 1966, 53-57

TOPIC TAGS: temperature distribution, computer program, computer calculation, temperature, shell structure, aerospace structure

ABSTRACT: The article proposes approximate methods for calculating unsteady state temperature fields which greatly simplify the calculation and which give results which are satisfactory in accuracy for practical purposes. The mathematical development of the method considers a shell of arbitrary shape and variable thickness, with respect to a curvilinear orthogonal coordinate system. The remainder of the article consists of the working out of a detailed computer program for the given problem. The method and the program were used to investigate the effect of different factors on the temperature field and the stresses in turbine vanes and disks. Calculated results are shown in a figure. The solution of

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ACC NR: AP6007308

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the above problem (for heating for a period of 300 seconds) required about 0.75 hours of machine time. In addition, about 0.75 hours are spent in preparing the perforated tape from the starting data. Solution of an analogous problem by hand methods would take about 200 hours. Orig. art. has: 22 formulas and 6 figures.

SUB CODE: 20,09/SUBM DATE: none/ ORIG REF: 007/ OTH REF: 001

Card 2/2 nst

9(4)

SOV/112-59-1-1525

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 213 (USSR)

AUTHOR: Korolev, A. A., Volfson, N. M., Levina, A. S., and Sokolov, V. S.

TITLE: Remodeling Gas Rotary-Hearth Furnaces for Annealing the Press Mounts of Receiving Tubes

PERIODICAL: Radiotekhn. proiz-vo, 1957, Nr 10, p 55

ABSTRACT: A rotary-hearth furnace has been designed for high-quality annealing of tube mounts. The furnace has 90 cast-iron "pockets;" 6 of them are heated by three pairs of opposing flat-flame burners, 72 pockets are in a tunnel (without heating), and 12 pockets are open on the top. The annealing time is 14 min, and output temperature, 140-150°C. The process consists of holding the mount at the highest temperature, gradually reducing the temperature in the annealing zone, and cooling. One of the pockets is equipped with a thermocouple that moves along with the mounts. To facilitate repairs, the tunnel is detachable.

O.K.R.

Card 1/1

SOKOLOV, V.S.; GUKHMAN, A.A., prof., red.; VESELKINA, A., red.; MALEK, Z.,
tekh.red.

[Non-stationary heat exchange in construction] Nestatsionarnyi
teplobmen v stroitel'stve. Pod red. A.A.Gukhmana. Moskva, Izd-vo
VTsSPS Profizdat, 1953. 335 p. (MIRA 13:8)
(Heat--Transmission)

SOKOLOV, V.S. _____

Simulating pressure charging of a gas turbine with a variable
pressure of exhaust gases. TRUDY TSNIDI no.39:56-65 '60.

(MIRA 15:8)

(Gas turbines)

ZAPRUDNOVA, Varvara Pavlovna; KRYLOV, Aleksandr Dmitriyevich;
SOKOLOV, Vladimir Sergeyeich; DUVANKOV, G.S., redaktor;
ARKHANGEL'SKIY, S.S., redaktor; EL'KINA, E.M., tekhnicheskii
redaktor.

[Safety engineering in the textile industry] Tekhnika bezo-
pasnosti na predpriatiakh tekstil'noi promyshlennosti.
Moskva, Gos.nauchno-tekhn.izd-vo Ministerstva promyshl.
tovarov shirokogo potrebleniia SSSR, 1955. 269 p.(MLRA 9:1)
(Textile industry--Safety measures)

SOKOLOV, V.S., doktor biolog.nauk; MEDVEDEV, P.F., kand.sel'skokhoz.nauk

Seminar-conference on new ensilage crops held in Leningrad. Vest.
AN SSSR 33 no.6:121-122 Je '63. (MIRA 16:7)
(Ensilage)

KANAVETS, P.I.; GESS, B.A.; SPORIUS, A.E.; CHERNYSHEV, A.M.;
MELENT'YEV, P.N.; CHERNYKH, V.I.; KHROMYAK, R.P.;
KHAYLOV, B.S.; BORISOV, Yu.I.; TSYLEV, L.M.; SOKOLOV, V.S.;
Prinimali uchastiye: MARKIN, A.A.; GORLOV, M.Ya.;
VORONOV, Yu.G.; BULAKHOV, K.A.; KREMYANSKIY, V.L.; ARSHINOV,
G.P.; MAZUN, A.F.; PISARNITSKIY, I.M.; BOKUCHAVA, O.A.;
KIRILLOV, M.V.; TSELUYKO, P.I.; POLYAKOV, G.O.; REZKOV, A.S.;
ZHUCHKOV, M.I.; ROMASHKIN, A.S.; ZUBKOV, A.S.; KOZLOV, N.N.

Pilot plant for the nodulizing of finely ground charge mix-
tures by the method of chemical catalysis. Trudy IGI 22:
93-109 '63. (MIRA 16:11)

S/0124/63/000/012/V080/V081

ACCESSION NR: AR4015142

SOURCE: RZh. Mekhanika, Abs. 12V640

AUTHOR: Sokolov, V.S.

TITLE: A study of thermal fatigue of EI-612 steel in a single-axis stressed state

CITED SOURCE: Tr. Mosk. energ. in-ta, vy*p. 47, 1963, 225-233

TOPIC TAGS: EI-612 steel, steel thermal fatigue, thermal fatigue, stressed state, single axis stress

TRANSLATION: The author studied the repeated plastic deformation of pipe samples. To obtain comparable results, the average temperature of the cycle was kept constant in the various tests. Experimental dependences were obtained for the number of cycles up to the destruction point on the change in plastic deformation per cycle, as well as the stress drop per cycle as a function of the number of cycles.

It was found that considerable weakening occurs during thermal fatiguing of the material. To evaluate the resistance to the appearance of cracks in metal

Card 1/2

Card

SOKOLOV, V.S., doktor biolog. nauk; NADEZHINA, T.P., kand. biolog. nauk

An economically promising plant; conference in Leningrad.
Vest. AN SSSR 34 no.8:103-104 Ag '64. (MIRA 17:12)

YEGOROV, Ivan Timofeyevich; SOKOLOV, Vitaliy Timofeyevich;
VOYTKUNSKIY, Ya.I., kand. tekhn. nauk, retsenzent;
SELYUZHONOK, Ye.F., kand. tekhn. nauk, retsenzent;
RUSETSKIY, A.A., kand. tekhn. nauk, nauchn. red.;
OSVENSKAYA, A.A., red.

[Hydrodynamics of high-speed vessels] Gidrodinamika
bystrokhodnykh sudov. Leningrad, Sudostroenie, 1965.
383 p. (MIRA 18:6)

GRINBERG, V.Kh., kapitan 3-go ranga; SOKOLOV, V.T., kapitan-leytenant

Accuracy of ship sailing during mine sweeping operations. Mor. sbor.
48 no.11:56-63 N '64. (MIRA 18:1)

L 61861-65 EWT(d)/EWT(l)/EWP(m)/EWT(m)/FA/EPF(n)-2/EWA(d)/T-2/EWA(w)
Pd-1/Pu-4 WW

AM5016673

BOOK EXPLOITATION

UR/
629.124.8:502

Yegorov, Ivan Timofeyevich; Sokolov, Vitaliy Timofeyevich

33
B+1

Hydrodynamics of high-speed vessels (Gidrodinamika bystrokhodnykh sudov) Leningrad, Izd-vo "Sudostroyeniye", 1965. 383 p. illus., biblio. 2100 copies printed.

TOPIC TAGS: hydrofoil, equilibrium flow, unsteady flow, lifting surface force, hydrofoil resistance, hydrofoil lateral stability, air cushion vessel

PURPOSE: This book is intended for use by scientific workers, design engineers, and those specializing in ship's hydromechanics.

COVERAGE: This book reports the results of theoretical investigations of the hydrodynamics of gliding vessels, hydrofoil vessels, and ACV's. Main attention has been devoted to methods of calculating the hydrodynamic characteristics of the lifting surfaces of these ships as well as methods for determining their seaworthiness.

Card 1/3

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AM5016673

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Ch. III. Unsteady hydrodynamic forces during interaction between the lifting surfaces of ships and the free surface of the water -- 199
A. Hydrodynamic forces during impact with water -- 199
B. Gliding in swelling seas -- 239
Bibliography -- 248

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Ch. IV. Hydrodynamic calculation of a hydrofoil vessel -- 250
A. Hydrodynamic calculation of foil systems -- 250
B. Resistance and running conditions of hydrofoil vessels -- 270
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vessels -- 305
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SUB CODE: ME SUBMITTED: 12Mar65 NO REF SOV: 053

OTHER: 026

Card

182
3/3

L 09372-67 BWT(1)/FCC RO/GM

ACC NR: AK6023407

SOURCE CODE: UR/0139/66/000/003/0007/0013

AUTHOR: Zuyev, V. Ye.; Sokolov, V. V.; Tvorogov, S. D.

ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-
tekhnicheskiy institut)

TITLE: Aerosol component of spectral transparency of atmospheric haze in the 0.5 - 14
micron wavelength range

SOURCE: IVUZ. Fizika, no. 3, 1966, 7-13

TOPIC TAGS: aerosol, atmospheric transparency, particle distribution, atmospheric
optics, atmospheric water vapor

ABSTRACT: The author analyzes the behavior of the relative aerosol attenuation coefficient as a function of the wavelength, the meteorological distance, the propagation distance of the radiation, the particle-dimension distribution function, and the minimum and maximum radii of the particles. Both horizontal and oblique propagation of radiation in haze are considered. The various factors entering in the expression for the attenuation coefficient are gathered from the literature, and tables of the attenuation coefficient and of its spectral components are presented. The data obtained are sufficient to calculate the spectral transparency of the aerosol component of attenuation of radiation by atmospheric haze in the lower 5-km layer of the atmosphere for different relative placements of the receiver and of the source. Some practical plots of the spectral transparency variations are presented. Although the

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L 09372-67

ACC NR: AP6023407

calculations are made for homogeneous spherical droplets, the results are applicable to two-layer particles of irregular shape. It is pointed out in the conclusion that a rigorous theoretical solution of the problem of attenuation of particles of irregular form cannot be obtained at present because of lack of data on the shape and chemical composition of particles of the atmospheric aerosol. Orig. art. has: 6 figures, 15 formulas, and 2 tables. o

SUB CODE: 20, 04/ SUBM DATE: 15Jul64/ ORIG REF: 002/ OTH REF: 005

Card 2/2

SOKOLOV, V.V.; GRIBOVA, I.A.

Bone marrow hematopoiesis under the chronic effect of small doses
of ionizing radiations. Med.rad. 5 no.7:10-14 '60. (MIRA 13:12)
(HEMATOPOIETIC SYSTEM) (RADIATION--PHYSIOLOGICAL EFFECT)

FATEYEVA, M.N.; KLIMOV, V.S.; PONIZOVSKAYA, A.I.; GORBARENKO, N.I.;
SOKOLOV, V.V.; SMIRNOVA, M.I.

Effect of Cs¹³⁷ on the human organism. Med.rad. 5 no.7:14-19
'60. (MIRA 13:12)
(RADIATION—PHYSIOLOGICAL EFFECT) (CESIUM—ISOTOPES)

FATEYEVA, M.N.; PENIZOVSKAYA, A.I.; SOKOLOV, V.V.; GORBARENKO, N.I.;
BENISOVA, Ye.A.; OSTAPKOVICH, V.Ye.

Initial reactions of the human organism to the action of ionizing
radiations. Med. rad. 5 no. 8:3-7 '60. (MIRA 13:12)
(RADIATION—PHYSIOLOGICAL EFFECT)

SOKOLOV, V.V.

Restoration of hemopoiesis in rabbits under the influence of
radiations. Med. rad. 6 no.2:27-32 '61. (MIRA 14:3)
(RADIATION SICKNESS) (HEMOPOIESIS)

SOKOLOV, V.V.; SOLOV'YEVA, V.A.; GRIBOVA, I.A. (Moskva)

Comparative characteristics of myeloid hemopoiesis in the initial forms of the chronic action X-rays and benzene intoxication. Med. rad. 7 no.7:92-93 JI '62. (MIRA 15:11)
(Marrow) (Benzene--toxicology)
(X RAYS--physiological effect) (hemopoietic system)

I. 13563-63

EWT(m)/BDS AFFTC/ASD

ACCESSION NR: AP3003141

S/0056/63/044/006/2081/2086 54
50

AUTHOR: Sokolov, V. V.

TITLE: Radiative corrections to scalar meson pair production in electron position collisions

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 2081-2086

TOPIC TAGS: electron position collision, scalar meson pair production, radiative correction, anomalous behavior, threshold

ABSTRACT: The perturbation-theory series for the production of a pair of pions in electron-positron collisions is summed in the doubly-logarithmic approximation, with the aim of checking on the characteristic change in the behavior of the cross section near the threshold of the reaction, brought about by the account of radiative corrections, as noted by Bayer and Kheifets (ZhETF v. 40, 715, 1961) for the case of a fermion pair production. The Duffin-Kemmer formulation is used for the analysis. It is demonstrated that this characteristic change in cross section holds true for pion production

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L 17563-63

ACCESSION NR: AP3003141

and also if all produced mesons are registered, regardless of their energy,
"In conclusion the author expresses his gratitude to V. N. Bayer for suggesting
the problem and to S. A. Kheyfets and I. B. Khriplovich for discussion."
Orig. art. has: 1 figure and 19 formulas.

ASSOCIATION: Institut yadernoy fiziki Sibirskogo otdeleniya Akademii nauk
SSSR (Institute of Nuclear Physics, Siberian Department, Academy of Sciences,
SSSR)

SUBMITTED: 17Jan63

DATE ACQ: 23Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 005

OTHER: 000

Card 2/2

1981, 1.7.

Содержит библиографию в Государственном институте для
проектирования и планирования технических исследований. Вып. 1
орг. тех. и техн. и техн. no. 1:20-28 1981.

(MIRA 18:10)

Государственный институт управления и экспериментального
проектирования и планирования технических исследований СССР.

SOKOLOV, V.V.

Some problems in improving effectiveness in the use of electronic computers. Vych. i org.tekh. v stroi. i proekt. no.3:37-41 '64.

(MIRA 18:10)

1. Gosudarstvennyy institut tipovogo i eksperimental'nogo proyektirovaniya i tekhnicheskikh issledovaniy Gosstroya SSSR.

L 11061-65 EWT(j)/ZWT(m) DIAAP/IJP(c)/AFWL/ESD(gs)/ESD(t)
ACCESSION NR: AP6046420 8/0056/64/047/003/1003/1006

AUTHORS: Vaynshteyn, A. I.; Sokolov, V. V.; Khriplovich, I. B.

TITLE: Gauge invariance and photon mass B

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47,
no. 3, 1964, 1003-1006

TOPIC TAGS: vector meson, photon, photon mass, gauge invariance,
quantum electrodynamics q\

ABSTRACT: This paper was stimulated by the report of Ogievetskiy and Polubarinov (ZhETF v. 41, 247, 1961), in which the possibility was noted of a gauge invariant formulation of the theory of a neutral vector meson¹ of nonvanishing mass. Since this casts out on the theoretical justification for the vanishing of the physical mass of the photon, the author shows briefly that the requirement of gauge invariance does lead to the vanishing of the polarization

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L 11064-65

ACCESSION NR: AP4046420

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operator $\Pi_{\mu\nu}(0) = 0$, and ascertains under which conditions this requires that the physical mass of the photons must be equal to zero. Although this is a natural consequence of gauge invariance, provided the photon mass is of purely dynamic origin, this is not the only possible consequence. "The authors thank V. N. Lorentz, V. N. Galitskiy, and S. A. Khayfets for discussions." Orig. art. has: 12 formulas.

ASSOCIATION: Novosibirskiy gosudarstvennyy universitet (Novosibirsk State University)

SUBMITTED: 30Mar64

SUB CODE: EM, NP

NR REF SOV: 002

ENCL: 00

OTHER: 005

Card 2/2

L 60941-65 EWT(1)

ACCESSION NR: AP5014321

UR/0367/65/001/005/0908/0911

AUTHORS: Vaynshteyn, A. I.; Sokolov, V. V.; Khriplovich, I. B. ¹²_B

TITLE: The Lehmann representation and the photon mass 21

SOURCE: Yadernaya fizika, v. 1, no. 5, 1965, 908-911

TOPIC TAGS: spectral representation, photon mass, meson mass, bare mass, Green's function, scalar meson, vector meson

ABSTRACT: It is shown, by making use of the analogy between pseudo-scalar meson theory and quantum electrodynamics, and particularly by considering the difficulty arising in the latter in connection with the Landau pole, that if the bare mass of the meson is zero, then the spectral representation can yield no information on the photon mass. The most important result of this deduction is that the transverse part of a vector field is uniquely determined only for nonvanishing bare masses. 'The authors thank V. I. Ogiyevetskiy who called their attention to the essential role of a certain quantum electrodynamic

Card 1/2

L 60941-65

ACCESSION NR: AP5014321

relation for vanishing bare mass.' Orig. art. has: 20 formulas *D*

ASSOCIATION: None

SUBMITTED: 30Nov64

NR REF SOV: 004

ENCL: 00

OTHER: 005

SUB CODE: NP, GP

Card

dm
2/2

Effect of correlation noises on the noise stability of coherent

phase telegraphically reception. Elektrosvyaz', 19 no. 3:183-31, Nr 165.
(MIRA 18:5)

MISHCHENKO, K.F.; REZNIKOV, I.L.; KLYUYEVA, M.L.; SOKOLOV, V.V.; POLYAKOV,
Yu.A.

Thermochemistry of carnallite dehydration. Zhur.prikl.khim.
38 no.9:1939-1944 S '65. (MIRA 18:11)

L 18957-65

ACCESSION NR: AP4041648

S/9146/64/007/003/0039/0044

AUTHOR: Sokolov, V. V.

TITLE: D-c parameters of nonlinear resistors

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 3, 1964, 39-44

TOPIC TAGS: resistor, nonlinear resistor, nonlinear resistor parameters

ABSTRACT: The parameters of simple nonlinear resistors whose V/I characteristic traverses the origin of coordinates, i.e., the resistors having no internal emf source, are considered. Nonlinear resistors, including those possessing negative resistance (tunnel diodes), have a continuous, single-valued V/I characteristic. A special parameter, "resistance response," is introduced for evaluating the static resistance inertia:

$$\mu_r = \frac{(R_0 - \rho)(\sigma - R_0)}{(\sigma - \rho)\tau}$$

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L 18957-65
ACCESSION NR: AP4041648

where R_0 is the static resistance, ρ is the dynamic resistance, σ is the "argumental" resistance, and τ is the time constant. Another special parameter, "resistance trend," is defined as: $\gamma_r = \frac{\rho_r}{R_0 - \rho}$; these parameters are used for setting up differential equations describing various circuits that contain LC, nonlinear, and linear resistances. Orig. art. has: 2 figures and 17 formulas.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Fine Mechanics and Optics)

SUBMITTED: 25Jan63

ENCL: 00

SUB CODE: EC

NO REF SOV: 005

OTHER: 000

Card 2/2

L 55224.65 EWT(d)/EEC(t)/EEC-4/FSS-2 Pn-4/Pp-4/Pac-4

ACCESSION NR: AP5009815

UR/0106/65/000/003/0023/0031
621.396.235:621.391.17

AUTHOR: Sokolov, V. V.; Pelekhatyy, M. I.

27
B

TITLE: Effect of noise correlation on the noise immunity of coherent reception in PM telegraphy

SOURCE: 'Elektrosvyaz', no. 3, 1965, 23-31

TOPIC TAGS: noise immunity, PM telegraphy, radio telegraphy, coherent reception

ABSTRACT: The possibility is theoretically considered of increasing the noise immunity of coherent reception, in phase-modulation telegraphy, by increasing the correlation of noise at the synchronous-detector inputs; this is achieved by equalization of the transmission factors of the received and reference signals; the correlation factor tends to approach 1 in this case. Formulas are derived which characterize the noise immunity of the coherent method under various conditions;

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ACCESSION NR: AP5009815

the noise immunity inherent to the phase-comparison method is also considered. The effect of circuit parameters on the noise-correlation factor is explored. These findings are reported: (1) It is possible in principle to obtain a higher noise immunity, with time-varying channel parameters, by increasing the noise correlation between the received and reference signals in the synchronous detector; (2) The noise correlation factor can be augmented by widening the reference passband up to a value equal to the signal band with a corresponding equalization of the phase characteristics of both circuits. Orig. art. has: 6 figures and 23 formulas.

ASSOCIATION: none

SUBMITTED: 13May64

ENCL: 00

SUB CODE: EC

NO REF SOV: 005

OTHER: 001

Card 2/2

9.3210 (1132, 1159)

6,7110

AUTHOR:

Sokolov, V. V.

TITLE:

Peculiarities of the passage of phase-telegraphy signals through the selective channel of a receiver.

PERIODICAL:

Elektrosvyaz', no. 11, 1961, 3 - 12

TEXT:

In this article, dealing with the passage of phase-keyed signals through the selective channel of a receiver, the author examines the transients in the general case, i.e., when the frequency of the incoming signal does not coincide with the mean frequency of the receiver passband. The selective channel is supposed to be an n-stage resonance amplifier with single tuned circuits (anode circuits). If the phase jump in the input signal is $\Delta\theta = \theta_2 - \theta_1$, the compound signal at the receiver output can be considered as the sum of the decay-ing oscillations that arise when the input voltage with phase θ_1 is switched off, and of the growing oscillations that arise at the output when a voltage with the same amplitude and frequency, but with phase θ_2 , is applied to the input. The author derives the general formulae giving the growth and the droop of amplitude

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Peculiarities of the passage of phase-telegraphy ...

at the selective channel output when the input signal is switched on or off.
 The amplification factor of the n-stage amplifier is:

$$K_n = \frac{K_0^n}{(1 + i \frac{\epsilon}{d})^n} = K^n e^{-in\varphi} \quad (1)$$

where $K = \frac{K_0^d}{\sqrt{\epsilon^2 + d^2}}$ is the one-stage amplifier amplitude characteristic, $\varphi =$

$= \arctg \frac{\epsilon}{d}$ is the phase characteristic, K_0 is the amplification factor with resonance, $\epsilon = \frac{\omega}{\omega_0} - \frac{\omega_0}{\omega} \approx \frac{2\Omega}{\omega_0}$ is the relative detuning, and $d = 1/Q$ is the circuit attenuation. A. A. Rizkin [Ref. 2: Osnovy teorii usilitel'nykh skhem (Fundamentals of the amplifier circuit theory) Izd. Sovetskoye Radio, 1958] shows that the transient amplitude in the amplifier described by (1) is (for $K_0 = 1$):

$$A_n(\tau) = \int_0^{\alpha\tau} \frac{\xi^{n-1}}{(n-1)!} e^{-(1 + \frac{\epsilon}{d})\xi} d\xi.$$

X

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Peculiarities of the passage of phase-telegraphy ...

After integration, and in the general case, the amplitude of the amplifier output voltage (when a voltage with amplitude $U_{m \text{ inp}}$ is applied to the input) can be expressed as follows:

$$U_{nm}(t) = \frac{U_{m \text{ inp}} K_0^n}{(1 + i\frac{\xi}{d})^n} \left[1 - e^{-(1 + i\frac{\xi}{d})\alpha t} \sum_{k=0}^{n-1} \frac{[(1 + i\frac{\xi}{d})\alpha t]^k}{k!} \right]$$

As to oscillating voltages, taking into account that $\xi = 2\Omega/\omega_0$ and $d = 2\alpha/\omega_0$, the author obtains:

$$U_n(t) = \frac{U_{m \text{ inp}} K_0^n d^n}{(\sqrt{\xi^2 + d^2})^n} \left\{ \sin(\omega t - n\varphi) - D_n(t) e^{-\alpha t} \sin[\omega_0 t - n\varphi + \psi_n(t)] \right\} \quad (2)$$

where

$$D_n(t) e^{i\psi_n(t)} = \sum_{k=0}^{n-1} \frac{[(1 + i\frac{\xi}{d})\alpha t]^k}{k!} \quad (2')$$

When the external voltage is switched off, the decaying oscillations at the out-
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that will be:

$$U_n(t) = \frac{U_m \text{inp } K_0^n d^n}{(\sqrt{\epsilon^2 + d^2})^n} D_n(t) e^{-\alpha t} \sin[\omega_0 t - n\varphi + \psi_n(t)]. \quad (3)$$

The author examines now the transient process at a 180° phase-jump. Decaying oscillations $U_{n1}(t)$ with phase $\theta_1 = 0^\circ$ and growing oscillations $U_{n2}(t)$ with phase $\theta_2 = 180^\circ$ take place in this case. Omitting the initial phase $n\varphi$, assuming that $\omega = \omega_0 + \Omega$ he writes $U_n(t)$ as follows:

$$U_n(t) = U_{n1}(t) + U_{n2}(t) = C_n(t) \sin[\omega t + \theta_n(t)] \quad (4)$$

where $C_n(t)$ is the amplitude and $\theta_n(t)$ the phase of the resulting oscillations. The author obtains finally the following formulae (where $\alpha' = \sqrt{1 + \frac{\epsilon^2}{d^2}}$):

$$C_n(t) = C_n \sqrt{1 - 4 D_n(t) e^{-\alpha_n t} \cos[\Omega t - \psi_n(t)] - 4 D_n^2(t) e^{-2\alpha_n t}} \quad (9)$$

and

$$\theta_n(t) = \text{arctg} \frac{2 D_n(t) e^{-\alpha_n t} \sin[\Omega t - \psi_n(t)]}{1 - 2 D_n(t) e^{-\alpha_n t} \cos[\Omega t - \psi_n(t)]} \quad (10)$$

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In these formulae:

$$D_n(t) = \sqrt{\left[1 + \sum_{m=0}^{\infty} \frac{(-1)^m \varphi_n^{2m} \sum_{k=1}^{n-1} \frac{(\alpha'_n t)^k}{k!} K^{2m}}{(2m)!} \right]^2 + \left[\sum_{m=0}^{\infty} \frac{\varphi_n^{2m+1} \sum_{k=1}^{n-1} \frac{(\alpha'_n t)^k}{k!} K^{2m+1}}{(2m+1)!} \right]^2} \quad (11)$$

$$\psi_n(t) = \operatorname{arctg} \frac{\sum_{m=0}^{\infty} \frac{\varphi_n^{2m+1} \sum_{k=1}^{n-1} \frac{(\alpha'_n t)^k}{k!} K^{2m+1}}{(2m+1)!}}{1 + \sum_{m=0}^{\infty} \frac{(-1)^m \varphi_n^{2m} \sum_{k=1}^{n-1} \frac{(\alpha'_n t)^k}{k!} K^{2m}}{(2m)!}} \quad (12)$$

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The author then writes formulae (9) to (12) such as they are when: 1) the signal passes through the amplifier channel without detuning; 2) the signal passes through the amplifier channel with a detuning corresponding to the amplifier pass-band limit, calculated at level $0.707 C_m$. In both these cases the author considers separately the particular cases of one-stage, two-stage and three-stage amplifiers, and draws the following conclusions: 1) When the signal passes through the selective channel of a receiver, the sudden or jump-like nature of the phase variation is preserved only when there is no detuning. The signal amplitude at the moment of the phase change-over is equal to zero. 2) In the presence of a detuning, the phase of the signal varies evenly; as the detuning increases, the phase variation rate decreases. The "valleys" in the signal amplitude decrease also; at great detunings, "overshoots" take place, exceeding the steady value. 3) An increase in the number of stages n , the passband remaining constant, causes only a very slight variation in the features of the transients; the magnitude of the "valleys" and "overshoots" does not vary. 4) Changing the sign of the detuning does not affect the variation features of the amplitude and phase of the signal, while the sign of phase change is inversed. There are 7 figures and 2

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Peculiarities of the passage of phase-telegraphy ...
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Soviet-bloc references.

SUBMITTED: November 30, 1960

[Abstracter's note: Subscript "bx" is changed into subscript "inp" in formulae and text.]

X

Card 7/7

BAYYER, V.N.; SOKOLOV, V.V.

Presence of π^0 -mesons in electromagnetic processes. Zhur. eksp.
i teor. fiz. 40 no.4:1233-1234 Ap '61. (MIRA 14:7)
(Mesons) (Electromagnetic theory)

SOKOLOV, V.V.

Stability of the conditions of electric circuits with negative resistance element. Izv.vys.ucheb.zav.; prib. 6 no.3:63-67 '63.
(MIRA 16:9)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy avtomatiki i telemekhaniki.

5(2)

AUTHORS:

Korneyeva, I. V.,
Sokolov, V. V., Novoselova, A. V.

S/076/60/005/02/001/045
B004/B016

TITLE:

Pressure of Saturated Vapor of Solid Zinc- and Cadmium Selenide ²¹

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 2, pp 241-245,
(USSR)

ABSTRACT:

It was the purpose of this paper to obtain data on the behavior of ZnSe and CdSe since they are not available in publications. These substances might in future play a part in the transformation of nuclear energy into electric energy, as photo-multipliers, etc. The authors describe the preparation of the selenides from Ts-0 zinc (GOST-3640-47), Kg-0 cadmium (GOST-1467-42), and selenium, especially used for rectifiers (GOST-6738-53) by fusing them together in quartz vials in a stoichiometric ratio. Since the molten components do not mix, and the strongly exothermal reaction takes place only in the gaseous phase, and on the interface at temperatures near the melting point, explosions of the vials occurred frequently so that it was necessary to operate with small quantities. Tables 1 and 2 give the analyses of the resultant selenides. ZnSe was ob-

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Pressure of Saturated Vapor of Solid Zinc- and
Cadmium Selenide

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tained only in the cubic modification of the sphalerite type, CdSe only in the hexagonal modification of the wurtzite type. Analysis and radiograms confirmed that the sublimation takes place without decomposition. The vapor pressure was determined according to the method described in reference 8, and according to Knudsen (Tables 4,5). Table 3 gives the calibration of the effusion chamber by means of KCl vapor. Figure 1 shows the linear dependence of $\log p$ on $\frac{1}{T} \cdot 10^3$. The following sublimation heats were determined: $\Delta H_{\text{subl ZnSe}} = 65.0 \text{ kcal/mol}$;

$\Delta H_{\text{subl CdSe}} = 50.1 \text{ kcal/mol}$. The authors quote a paper by N. A. Goryunova (Ref 4), and express their gratitude to Yu. P. Simanov for advice in evaluating the radiograms. There are 1 figure, 5 tables, and 10 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: October 6, 1958

Card 2/2

MISHCHENKO, K.P.; SOKOLOV, V.V.

Thermodynamics and structure of nonaqueous solutions of electrolytes.
Part 3: Comparison of the structures of solutions of sodium
perchlorate in acetone and water. Zhur.strukt.khim. 4 no.2:184-188
Mr-Apr '63. (MIRA 16:5)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy
promyshlennosti.

(Sodium perchlorate) (Acetone)
(Electrolyte solutions - Thermodynamic properties)

SOKCLOV, V.V.; ZHILINA, L.P.; MISHCHENKO, K.P.

Thermodynamics of the vaporization of acetone at various
temperatures. Zhur. prikl. khim. 36 no.4:750-754 Ap '63.
(MIRA 16:7)

(Acetone) (Evaporation)

MISHCHENKO, K.P.; SOKOLOV, V.V.

Thermodynamics and structure of nonaqueous electrolyte solutions.
Part 5: Solutions of sodium iodide and perchlorate in acetone and
water at various temperatures. Zhur. strukt. khim. 5 no.6:819-828
N-D '64. (MIRA 18:4)

1. Leningradskiy tekhnologicheskii institut tsellyulozno-bumazhnoy
promyshlennosti.

S/106/63/000/004/005/008
A055/A126

AUTHORS: ~~Sokolov, V.V., Pelekhatyy, M.I.~~

TITLE: On transient processes in resonant systems with phase keying

PERIODICAL: Elektrosvyaz¹, no. 4, 1963, 33 - 38

TEXT: Formulae are derived for the transient amplitude and phase at the output of an n-stage resonant amplifier in the general case, i.e., in the case of arbitrary phase jumps and in the presence of a detuning of the resonant system with respect to the incoming signal. The authors examine an n-stage amplifier with single-tuned anode circuits and with the amplification factor

$$k_n = \frac{K_0^n}{(1 + i \frac{\epsilon}{d})^n} = K^n e^{-in\varphi}, \quad (1)$$

where $K = \frac{K_0 d}{\sqrt{\epsilon^2 + d^2}}$ is the amplitude characteristic of a single-stage amplifier, $\varphi = \arctg \frac{\epsilon}{d}$ is the phase characteristic, $\epsilon \approx \frac{2\Omega}{\omega}$ is the relative detuning

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A055/A126

On transient processes in resonant systems

and d is the attenuation of the circuit. The resultant signal at the amplifier output (when the input signal phase jump is $\Delta\theta = \theta_2 - \theta_1$) is considered as the sum of the residual oscillations (after the switching out of the input voltage with phase θ_1) and the rising oscillations (after the switching in of an input voltage with the same amplitude and frequency, but with phase θ_2). Omitting the initial phase $n\varphi$ and assuming that the detuning is positive, the amplitude of the resultant oscillations is

$$C_n(t) = \frac{u_{m0} e^{-\alpha t}}{(\sqrt{\omega^2 + d^2})^n} \times \sqrt{1 - 4D_n(t) e^{-\alpha t} \sin \frac{\Delta\theta}{2} \sin \left[\Omega t - \psi_n(t) + \frac{\Delta\theta}{2} \right] + 4D_n^2(t) e^{-2\alpha t} \sin^2 \frac{\Delta\theta}{2}}, \quad (3)$$

and the phase of the resultant oscillations is

$$\theta_n(t) = \arctg \frac{\sin \theta_2 - 2D_n(t) e^{-\alpha t} \sin \frac{\Delta\theta}{2} \cos \left[\Omega t - \psi_n(t) - \frac{\theta_1 + \theta_2}{2} \right]}{\cos \theta_2 - 2D_n(t) e^{-\alpha t} \sin \frac{\Delta\theta}{2} \sin \left[\Omega t - \psi_n(t) - \frac{\theta_1 + \theta_2}{2} \right]}, \quad (4)$$

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S/106/63/000/004/005/008
A055/A126

On transient processes in resonant systems

where $D_n(t)$ and $\psi_n(t)$ are coefficients determined in an earlier work (Sokolov, 'Elektrosvyaz', no. 11, 1961) and depending on the number of stages, on the quality of the circuits and on the detuning:

$$D_n(t) = \sqrt{\left[1 + \sum_{m=0}^{\infty} \frac{(-1)^m \varphi^{2m}}{(2m)!} \sum_{\kappa=1}^{n-1} \frac{(a' t)^\kappa}{\kappa!} \kappa^{2m} \right]^2 + \left[\sum_{m=0}^{\infty} \frac{\varphi^{2m+1}}{(2m+1)!} \sum_{\kappa=1}^{n-1} \frac{(a' t)^\kappa}{\kappa!} \kappa^{2m+1} \right]^2}$$

$$\psi_n(t) = \frac{\sum_{m=0}^{\infty} \frac{\varphi^{2m+1}}{(2m+1)!} \sum_{\kappa=1}^{n-1} \frac{(a' t)^\kappa}{\kappa!} \kappa^{2m+1}}{1 + \sum_{m=0}^{\infty} \frac{(-1)^m \varphi^{2m}}{(2m)!} \sum_{\kappa=1}^{n-1} \frac{(a' t)^\kappa}{\kappa!} \kappa^{2m}}$$

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On transient processes in resonant systems

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where

$$\alpha' = \sqrt{1 + \frac{\epsilon^2}{d^2}} .$$

Discussing the formulae (2) and (3), the authors examine the variation of the amplitude and phase of the signal in transient condition and investigate the peculiarities of transient processes in some particular cases. There are 5 figures.

SUBMITTED: June 13, 1962

Card 4/4

SOKOLOV, V.V.

Condition stability of electric circuits with active elements
having two nonlinear resistances. Izv. vys. ucheb. zav.;
prib. 6 no.5:27-33 '63. (MIRA 16:11)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
Rekomendovana kafedroy avtomatiki i telemekhaniki.

SOKOLOV, V.V.

Inspection of bridge piers. Put' i put. khoz. 5 no. 1:23 Ja '61.
(MIRA 14:5)

1. Starshiy inzhener vodolaznoy stantsii Glavnogo upravleniya
puti i sooruzheniy.
(Railroad bridges--Foundations and piers)

SOLOLOV, V.V.

First results of repair work on GT-12-3 gas turbines at the Shatskii
"Podzemgaz" Plant. Podzem.gaz.ugl. no.2:66-69 '59.
(MIRA 12:9)

1. Glavpodzemgaz.
(Moscow Basin--Coal gasification, Underground--Equipment and supplies)
(Gas turbines--Maintenance and repair)

Sokolov, V.V.

AUTHORS: Sokolov, V. V., and Aliyev, D. A.
TITLE: Brief Communications - about Furnaces (Korotkiye soobshcheniya)
PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, No. 1, p. 115 (U.S.S.R.)
ABSTRACT: Sokolov suggests that worn-out rods from small high-temperature furnaces be reconditioned and used. Aliyev constructed and used new supports for work with a number of dividing hoppers and settling trays of furnaces. There are no tables, figures or references.

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Card 1/1

30.01.77, 1.1.

Avtorizatsionnoye predpriyatiye "Tsentrifugi" (Automatic and continuous centrifuges). Moskva, Mass 47, 1. 1977, 300 s.

S.: Portal: List of Russian Acquisitions, Vol. 7, No. 3, Oct. 1971

SOKOLOV, V. V., Captain-Engineer

Cand. Tech. Sci.

Dissertation: "Investigation of the Fluidity of Lubricant Oils at
Low Temperatures."

31 Oct. 49

Military Order of Lenin Academy of Armored and Mechanized
troops of the Soviet Army

imeni J. V. Stalin

SO Vecheryaya Moskva
Sum 71

СЕРГЕЕВ, В. П.

Специ. техн. Sci.

Dissertation: "Trend in Postwar Development of Domestic Sheep Breeding on the Basis of the Requirements of Wool-processing Industry." Moscow Textile Inst, 4 Jul 47.

St: Vechepravakhskiy, Jul, 1947 (Project #17836)

SHERISHEV, V.M.; SOKOLOV, V.V.

Effective type of enterprise for the primary processing of wool.
Tekst.prom. 16 no.7:10-11 J1 '56. (MLRA 9:8)
(Woolen and worsted manufacture)

IVAN'KOV, Pavel Alekseyevich; ~~SOKOLOV, Vladimir Viktorovich~~; PODOBEDOV, N.S.,
redaktor; SHAMAROVA, T.A., redaktor izdatel'stva; ROMANOVA, V.V.,
tekhnicheskiy redaktor

[Eternal snow and its representation on topographical maps] Vechnye
snega i ikh izobrazhenie na topograficheskikh kartakh. Moskva,
Izd-vo geodez. lit-ry, 1957. 81 p. (MLMA 10:10)
(Snow) (Cartography)

ANUCHIN, Vsevolod Aleksandrovich; SOKOLOV, V.V., kand.filosof.nauk,
spets.red.; YANIKOV, G.V., red.; BELICHENKO, R.K., mladshiy red.;
GLEVKH, D.A., tekhn.red.

[Theoretical problems in geography] Teoreticheskie problemy
geografii. Moskva, Gos.izd-vo geogr.lit-ry, 1960. 264 p.
(MIRA 13:12)

(Geography)

SOKOLOV, Vladimir Vladimirovich; KALINOVSKAYA, Ye., nauchn.
red.; LAGUTINA, Ye.V., red.; RAKITIN, I.T., tekhn.red.

[Metals and plastics in surgery] Metally i plastmassy v
khirurgii. Moskva, Izd-vo "Znanie," 1963. 31 p. (Narodnyi
universitet kul'tury: Fakul'tet zdorov'ia, no.9)
(MIRA 16:12)

(SURGICAL INSTRUMENTS AND APPARATUS)

CHUKHROV, M.V.; VYATKIN, I.P.; SOKOLOV, V.V.

Continuous horizontal coating of magnesium. TSvet. met. 36 no.12:60-64
D '63. (MIRA 17:2)

SOKOLOV, V.V.

Clinical observations on the manifestations of the vibration disease in riveters and locksmiths working with lead and zinc dies. Trudy Vor. med. inst. 47:92-93 '62 (MIRA 16:12)

1. Profpatologicheskoye otdeleniye 3-y klinicheskoy bol'nitsy g. Voronezha.

SOKOLOV, V.V., starshiy nauchnyy sotrudnik (Gor'kiy, ul. Belinskogo, d.55, kv.6); GUROV, Yu.P., mladshiy nauchnyy sotrudnik

Treatment of habitual shoulder dislocations. Ortop. travm. i protez. 25 no.1:18-21 Ja '64. (MIRA 17:9)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii (dir. - dotsent M.G.Grigor'yev).

SOKOLOV, V.V.; ARIYEVICH, M.N.

Changes in the blood under the effect of SHF on the organism.
Trudy Inst. gig. truda i prof. AMN SSSR no.1:43-45 '60.
(MIRA 16:12)

*

SOKOLOV, V.V.

Underwater repair of the facing seams of bridge footings. Put' 1
put.khoz. 8 no.6;27-28 '64. (MIRA 17:9)

SOKOLOV, V.V. (Moskva)

Study of the problem of hemopoiesis in occupational diseases.
Gig.truda i prof.azb. 3 no.6:29-33 N-D '59. (MIRA 13:4)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR.
(OCCUPATIONAL DISEASES) (HEMOPOIETIC SYSTEM)

L 3197-66 EWT(m)

ACCESSION NR: AP5009205

S/0241/65/010/003/0088/0089

AUTHOR: Sokolov, V. V.; Gus'kova, A. K.

TITLE: Blood System Changes Produced by Chronic Action of Small Radiation Doses, Ye. D. Goldberg, Tomsk, 1964

12
B

SOURCE: Meditsinskaya radiologiya, v. 10, no. 3, 1965, 88-89

TOPIC TAGS: ionizing radiation, radiation effect, blood, dose, biological effect, hematology

ABSTRACT: The book is a generalization of literature experimental data on hematology of persons affected by chronic radiation sickness, blood system reactions at later dates of persons who survived acute radiation sickness in Japan, and the author's data on blood indices of roentgenologists and healthy persons. The author attempts to systematize the data on the basis of biological effect dependence on total radiation dose and radiation intensity. Evaluation of various groups of data and the conclusions as well as the effective use of tables to summarize data are outstanding features of the book. Its shortcomings include the absence of certain important literature

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ACCESSION NR: AP5009205

sources, inadequate explanations of contradictory data, and the lack of sufficient data on hematological investigation methods and indices. Biologists and doctors engaged in radiation pathology should find the book of particular interest. Orig. art. has: None.

ASSOCIATION: None.

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 000

pc
Card 2/2

ACC NR: AT6033195

SOURCE CODE: UR/3226/66/000/024/0001/0008

37

AUTHOR: Sokolov, V. V.; Khriplovich, I. B.

ORG: none

TITLE: Commutation relations for current density components

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut yadernoy fiziki. Preprint, no. 24, 1966. Perestanovochnyye sootnosheniya dlya komponent plotnosti toka, 1-8

TOPIC TAGS: nucleon, current density, nucleon current, meson theory, pseudoscalar meson theory, pseudovectoral bonding, meson field, commutation relation

ABSTRACT: The density of a nucleonic current, as determined within the framework of the symmetrical pseudoscalar meson theory, characterized by pseudovectoral bonding, does not commute with the canonic pulse of a meson field. Some aspects of this theory are discussed. Orig. art. has: 19 formulas.

[Authors' abstract]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 005/

Card 1/1

MASHRYKOV, K.K.; DPA, SHAYKH, G.M.; SOKOLOV, V.Ya.; KIRIYENKO, G.I.

Hydrogen and nitrogen and gas in Jurassic sediments in the
southern region of the Turkmen S.S.R. Izv. AN Turk. SSR, Ser.
Sci.-tech., no. 1, 1963, no. 79-87 '63. (MIRA 17:2)

ANURSKIY, G.I.; SOKOLOV, V.Ya.; SEMENTSOV, A.F.; VOLOVNIK, V.T.

Recent data on the tectonics and the oil and gas potential of
the fractured zones of southeastern Turkmenistan. Neftegaz.
geol. i geofiz. no.8:3-6 :64. (MIRA 17:9)

1. TsKTF Upravleniya geologii i okhrany nedr pri Sovete Ministrov
Turkmenskoy SSR i Trest "Turkmennefterazvedka".

SOKOLOV, V.Ya.

Bayram-Ali, a new gas field in eastern Turkmenia. Geol. nefiti
i gaza 6 no.11:31-34 N '62. (MIRA 15:12)

1. Trest Turkmenneftterazvedka.

SOKOLOV, V. Ya.

Using the natural potential for determining the point at which the drill pipe is frozen. Izv.vys.ucheb.zav.; neft' i gaz 1 no.12:59-60 '58. (MIRA 12:4)

1. Geologoposkovaya kontora "Turkmennefti."
(Oil well drilling)

BARASH, B.I.; SOKOLOV, V.Ya.

Geology and prospects for finding oil and gas in the Farab structure.

Trudy VNIGNI no.35:105-113 '61.

(MIRA 16:7)

(Chardzhou region--Petroleum geology)

(Chardzhou region--Gas, Natural--Geology)

BALASHOV, Ye.V.; BARASH, B.I.; GRACHEV, G.I.; SOKOLOV, V.Ya.

Geology of the Farab anticline. Trudy VNIGNI no.30:88-96 '61.
(MIRA 14:9)
(Farab region (Turkmenistan)--Petroleum geology)

BARASH, B.I.; GRACHEV, G.I. [deceased]; SOKOLOV, V.Ya.

Stratigraphic boundary between the Jurassic and Cretaceous in the
middle Amu Darya. Trudy VNIGMI no.35:114-120 '61. (MIRA 16:7)
(Amu Darya Valley--Geology, Stratigraphic)

KLASSEN, Villi Ivanovich, prof., doktor tekhn. nauk; SOKOLOV, V.Ye.,
otv. red.; OKUN', K.M., red. izd-va; DERGILEVA, I.Ya.,
tekhn. red.

[Flotation of coals] Flotatsiia uglei. Moskva, Gosgortekh-
izdat, 1963. 378 p. (MIRA 16:7)
(Coal preparation)

SOKOLOV, V. Ya.

Core recovery from deep wells in prospecting for oil and gas. Gaz.
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