BOLOTIN, V.V., prof.; DARKOV, A.V., prof.; KRYUKOVSKIY, S.S., prof.;
    SOKOLOV, S.N., prof.

[Program for the course in strength of materials for students
not specializing in mechanics in higher technical schools]
Programma kursa soprotivleniia materialov dlia nemekhanicheskikh
spetsial'nostei vtuzov. Moskva, Gos.izd-vo "Sovetskaia nauka,"
1959. 14 p.   (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego
spetsial'nogo obrazovaniia.
        (Strength of materials--Study and teaching)

PONOMAREV, S.D., prof.; TIKHOMIROV, Ye.N., prof.; SERENSEN, S.V., prof.;
    MALININ, N.N., prof.; POPOV, A.A., prof.; KRYUKOVSKIY, S.S., prof.;
    SOKOLOV,S.N.,prof.
    [Program of the course "Strength of materials" for departments of
    mechaniced engineering in technical institutes] Programma kursa
    "Soprotivlenie materialov" dlia mashinostroitel'nykh i mekhaniche-
    skikh spetsial'nostei vysshikh tekhnicheskikh uchebnykh zavedenii.
    Moskva, Izd-vo "Vyshaia shkola," 1959. 15 p.   (MIRA 15:1)

    1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego spe-
    tsial'nogo obrazovaniya.
               (Strength of materials—Study and teaching)

PHASE I BOOK EXPLOITATION   SOV/3416

Akademiya nauk SSSR. Institut mashinovedeniya

Voprosy prochnosti materialov i konstruktsiy (Problems of Strength of
Materials and Structures) Moscow, 1959. 399 p. Errata slip inserted.
3,200 copies printed.

Resp. Ed.: D. N. Reshetov, Professor, Doctor of Technical Sciences;
Ed. of Publishing House: G. D. Gorshkov; Tech. Ed.: S. T. Sidin.

PURPOSE: This book is intended for engineers and scientists concerned with
the problems of the strength of materials and construction.

COVERAGE: The book contains 28 articles on the strength of materials in
general and of machine construction in particular. This collection
was prepared under the direction of the Institute of Mechanical Engineering
of the AS USSR in honor of Sergey Vladimirovich Serensen, one of the
founders and directors of the national school of strength of materials,
who recently completed 30 years of scientific activity. The preface gives
a short sketch of his life and professional activities. The collection
is divided into two parts. The first part contains 13 articles on general
problems of strength and the strength of machine construction materials.
The second part contains 15 articles on dynamics and calculation of
strength and rigidity. There are references at the end of each article.

PART II. DYNAMICS AND CALCULATION OF STRENGTH AND RIGIDITY

AVAILABLE: Library of Congress

Card 6/6

SHORIN, S.N., doktor tekhn. nauk, prof., red.; SHCHEPKIN, S.I., zasl. deyatel'
nauki i tekhniki, prof., otv. red.; LASTOVTSEV, A.M., prof. red.;
KARAVAYEV, N.M., prof., red.; KOKOREV, D.T., prof., red.; PETROKAS,
L.V., prof., red.; RESHCHIKOV, P.M., dots., red.; SOKOLOV, S.N., prof.,
red.; SOKOLOV, S.I., prof.. red.; KHODZHAYEV, A.M., dots., red.;
LEBEDEV, K.I., kand. tekhn. nauk, dots. red.; TAIROVA, A.L., red. izd-
va; UVAROVA, A.F., tekhn. red.

[Investigation and calculation of heat engineering and power generating
processes] Issledovaniia i raschety teploenergeticheskikh i energo-
khimicheskikh protsessov; sbornik statei. Pod red. S.N.Shorina. Mo-
skva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 137 p.
(MIRA 14:10)

1. Moscow. Institut khimicheskogo mashinostroyeniya.
    (Heat engineering)   (Power engineering)

L 27608-65   EWT(1)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(j)/EWA(h)   Pc-4/Pr-4/Ps-4/Pi-4/
Pu-4   RPL   WW/JW/RM

ACCESSION NR: AP5001524   S/0152/64/000/011/0069/0070

AUTHOR: Sokolov, S. N.

TITLE: New equation for calculating the heat capacity of certain liquid
hydrocarbons at various temperatures

SOURCE: IVUZ. Neft' i gaz, no. 11, 1964, 69-70

TOPIC TAGS: heat capacity, liquid hydrocarbon, hydrocarbon heat capacity,
aromatic hydrocarbon, aliphatic hydrocarbon

ABSTRACT: A new equation is proposed for calculating the heat capacity of li-
quid hydrocarbons of the methane series and of certain aromatic hydrocarbons over
the entire experimental temperature range:

$$C_p = C_1 + M^{\frac{3}{4}} \frac{(T - 0.5 T_x)}{[T(T_x - T)]^{\frac{1}{2}}} \cdot \frac{T}{T_x}, \qquad (1)$$

where M is the molecular weight of the liquid; C_p is the heat capacity of the
hydrocarbon at constant pressure and temperature T (°K), in cal/mole·deg; C_1 is

Card   1/2

L 27608-65

ACCESSION NR: AP5001524   5

the heat capacity of the hydrocarbon at constant pressure and temperature 0.5 T_c (T_c being the critical temperature). For hydrocarbons of the methane series, values of C_1 were obtained from the equation

$$C_1 = -8,318 + 2,6\ n,   \qquad (2)$$

where n is the number of atoms in the hydrocarbon molecule. Values of C_p obtained from equation (1) for n-pentane, n-hexane, n-heptane, n-octane, n-nonane, n-decane, benzene, toluene, and p-xylene at various temperatures are tabulated. Orig. art. has: 1 table and 2 formulas.

ASSOCIATION: Moskovskiy aviatsionnyy institut im. Sergo Ordzhonikidze (Moscow aeronautical institute)

SUBMITTED: 23Jun64   ENCL: 00   SUB CODE: OC, TD

NO REF SOV: 001   OTHER: 001

Card   2/2

L 47277-66,   EWT(d)/EWP(l)   IJP(c)   GG/BB

ACC NR: AP6032488   SOURCE CODE: UR/0413/66/000/017/0029/0029

INVENTOR: Sokolov, S. N.

ORG: none

TITLE: Optical memory unit. Class 21, No. 185367

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 29

TOPIC TAGS: computer memory, laser optics

ABSTRACT: This Author Certificate introduces an optical memory unit consisting of
controlled light sources, a write information register, a photodisk, and light
sensors (see Fig. 1). The coherent monochromatic light sources are placed in front

Fig. 1. Optical memory

1 - Register; 2, 3, 4 - coherent mono-
chromatic light sources; 5 - reference
source; 6 - photodisk; 7 - photo-
sensors; 8 - etched glass.

Card 1/2   UDC: 681.142.07

ACC NR: AP6032488

of the photodisk and are coupled to the register containing the information to be stored. The ccherent reference source is placed in front of an etched glass while the light sensors are located at the focal points of the system behind the photo-disk. The advantages of this memory are its reliability and the increased write information density permitted by superimposing the stored information. Orig. art. has: 1 figure.

[BD]

SUB CODE: 09/ SUBM DATE: 22Apr65/ ATD PRESS: 5094

hc

Card 2/2

SOKOLOV, S.N.

Prevention of acute empyema following pneumonectomy [with summary
in English]. Vest.khir. 80 no.3:47-52 Mr '58.   (MIRA 11:4)

1. Iz gospital'noy khirurgicheskoy kliniki (nach. - prof. I.S.
Kolesnikov) Voyenno-meditsinskoy ordena Lenina akademii im. S.M.
Kirova. Adres avtora: Leningrad, Botkinskaya ul'. 23, gospital'-
naya khirurgicheskaya klinika Voyenno-meditsinskoy ordena Lenina
akademii im. S.M.Kirova.
        (PNEUMONECTOMY, compl.
            acute empyema, prev.)
        (EMPYEMA, PLEURAL, etiol. & pathogen.
            pneumonectomy, prev. (Rus))

KOLESNIKOV, I.S.; SOKOLOV, S.N.

Prevention of pleural empyema following partial resection of the lung. Grud. khir. 1. no.2:71-78; Mr-Ap '59.   (MIRA 16:7)

1. Iz gospital'noy khirurgicheskoy kliniki Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova (nachal'nik-general-mayor meditsinskoy sluzhby prof. I.S.Kolesnikov) Adres avtora: Leningrad, Botkinskaya ul.,d.23; Gospital'naya khirurgicheskaya klinika.
     (EMPYEMA) (PLEURA—ABSCESS)   (LUNGS—SURGERY)

KOLESNIKOV, Ivan Stepanovich; SOKOLOV, Sergey Nikolayevich

[Prophylaxis and treatment of empyema after resection of the lung] Profilaktika i lechenie empiem plevry posle rezektsii legkogo. Leningrad, Medgiz, 1960. 110 p.

(MIRA 14:2)

(LUNGS--SURGERY)   (EMPYEMA)

KOLESNIKOV, I.S.; SOKOLOV, S.N.

Treatment of postoperative empyema of the pleura following pneumonectomy and partial resection of the lungs. Grud. khir. 2 no.1:67-72 Ja-F '60. (MIRA 15:3)

1. Iz gospital'noy khirurgicheskoy kliniki Voyenno-medi-tsinskoy ordena Lenina akademii imeni S.M. Kirova. Adres avtora: Leningrad, Botkinskaya, 23, Khirurgicheskaya klinika Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.
(EMPYEMA)
(PLEURA—ABSCESS)
(LUNGS—SURGERY)

KOLESNIKOV, I. S.; SOKOLOV, S. N.; MEZHEVIKIN, N. I.

Basic variations in the segmental arteries of the upper lobe of the
right lung as applied to segmentectomies. Grud. khir. no.4:61-65
'61.   (MIRA 14:12)

1. Iz kafedry gospital'noy khirurgii (nach. - chlen-korrespondent
AMN SSSR prof. A. N. Maksimenkov)Voyenno-meditsinskoy ordena Lenina
akademii imeni S. M. Kirova.

(PULMONARY ARTERY--SURGERY)   (LUNGS--BLOOD SUPPLY)

KOLESNIKOV, I.S.; SOKOLOV, S.N.; MEZHEVIKIN, N.I.

Basic variants of the veins in the superior lobe of the right lung and some problems in segmental resections of the lung in connection with disorders of the venous outflow. Grud.khir. 3 no.6:62-69 N-D '61.
(MIRA 15:3)

1. Iz kafedry gospital'noy khirurgii Voyenno-morskoy ordena Lenina akademii (VMOLA) imeni S.M. Kirova (nach. - prof. I.S. Kolesnikov) i kafedry operativnoy khirurgii Voyenno-morskoy ordena Lenina akademii imeni S.M. Kirova (nach. - chlen-korrespondent AMN SSSR prof. A.N. Maksimenko).
(LUNGS--SURGERY)   (PULMONARY VEIN)

PUTOV, N.V.; SOKOLOV, S.N.

"Segmental and subsegmental pulmonary resection in tuberculosis patients" by N.I. Gerasimenko. Reviewed by N.V. Putov, S.N. Sokolov. Vest.khir. 87 no.11:127-129 N '61.

(MIRA 15:11)

(TUBERCULOSIS)   (GERASIMENKO, N.I.)

KOLESNIKOV, I.S., prof.; PUTOV, N.V., prof.; YERMOLAYEV, V.R., kand.med.
nauk; SOKOLOV, S.N., kand.med.nauk

Acute blood circulation disorders in the residual lung part
following patrial resections. Vest.khir.90 no.2:128-135 F'63.
(MIRA 16:7)

1. Iz gospital'noy khirurgicheskoy kliniki (nachal'nik prof.
I.S.Kolesnikov) Voyenno-meditsihskoy ordena Lenina akademii
imeni S.M.Kirova. Adres avtorov: Leningrad, Botkinskaya ul.,
d.23, Gospital'naya khirurgicheskaya klinika Voyenno-medistin-
skoy ordena Lenina akademii imeni Kirova.
                    (LUNGS—SURGERY)
            (BLOOD—CIRCULATION, DISORDERS OF)

KOLESNIKOV, I.S.; YERMOLAYEV, V.R.; SOKOLOV, S.N.; MEREVIKIN, N.I.

Resection of the basal segments of the lungs. Grud. khir. 5
no.5:46-51 S-O '63.   (MIRA 17:8)

1. Iz kafedry gospital'noy khirurgii (nachal'nik - prof. I.S.
Kolesnikov) Voyenno-meditsinskoy ordena Lenina akademii imeni
Kirova. Adres avtorov: Leningrad K-9, Botkinskaya ul., d.23,
Klinika gospital'noy khirurgii Voyenno-meditsinskoy ordena
Lenina akademii.

KOLESNIKOV, I.S., prof.; YERMOLAYEV, V.R.; kand. med. nauk; SOKOLOV, S.N.,
cand. med. nauk

Surgical anatomy and technique of resection of the lingular
segments of the left lung. Vest. Khir. 91 no.12:27-32 D '63.
(MIRA 17:9)

1. Iz 1-y gospital'noy khirurgicheskoy kliniki (nachal'nik--
prof. I.S. Kolesnikov) i kafedry operativnoy khirurgii (nachal'-
nik -- prof. A.N. Maksimenkov) Voyenno-meditsinskoy ordena Lenina
akademii imeni Kirova. Adres avtorov: Leningrad, K-9, Botkinskaya
ulitsa, 23, klinika gospital'noy khirurgii Voyenno-meditsinskoy
ordena Lenina akademii imeni Kirova.

KOLESNIKOV, I.S., prof.; YERMOLAYEV, V.R.; SOKOLOV, S.N.; MEZHEVIKIN, N.I.

Resection of the mediobasal segment of the lung. Vest. khir.
92 no.4:16-21 Ap '64   (MIRA 18:1)

1. Iz gospital'noy khirurgicheskoy kliniki (nachal'nik -- prof.
I.S. Kolesnikov) i kafedry operativnoy khirurgii i topograficheskoy
anatomii (nachal'nik -- prof. A.N. Maksimenkov) Voyenno-medi-
tsinskoy ordena Lenina akademii imeni S.M. Kirova. Adres av-
torov: Leningrad, K-9, Botkinskaya ul, 23, gospital'naya khi-
rurgicheskaya klinika Voyenno-meditsinskoy ordena Lenina aka-
demii imeni S.M. Kirova.

SOV/52-2-4-5/7

AUTHORS: Klepikov, N. P.   and   Sokolov, S. N.   (Moscow)

TITLE: Non-Linear Confluence Analysis.   (Nelineynyy kon-
flyuyentnyy analiz.)

ABSTRACT: In the treatment of experimental results there
frequently arises the problem of finding a curve with
a finite number of degrees of freedom which best
approximates to the set of experimental points, and
also of determining the optimum number of degrees of
freedom of such a curve.   If the points in a space
l of variables obtained from experiment have errors
in fewer than l directions, then the problem is
reduced to regression analysis.   If experimental errors
are also present in the measurements of all the co-
ordinates of the points the problem becomes considerably
more complicated.   Problems of such a nature are
related to confluence analysis.   There are possibly
cases when a quantity free from error is not an
independent variable, and then regression analysis
can conveniently replace confluence analysis.   In the

Card 1/3

SOV/52-2-4-5/7

Non-Linear Confluence Analysis.

literature up to the present time only the methods of linear confluence analysis are described (Refs.1,2,3). Non-linear confluence analysis is considered from the standpoint of the maximum likelihood method. The likelihood function is a product of curvilinear integrals of the respective distribution densities of each point of the curve. For a sufficiently small curvature and a normal error distribution, these integrals are evaluated approximately, resulting in distribution functions of the normal type but with modified weights and shifted experimental points. Thus, a confluent problem is reduced to an ordinary regressional one. Weight modifications and point shifts may be found by means of successive approximations. There are 4 references, of which 3 are English and 1 Soviet.

ASSOCIATION: Ob"yedinennyy Institut Yadernykh Issledovaniy
(United Institute of Nuclear Research).

Card 2/3

The Green's Function of the Photon with an Accuracy up   56-5-54/55
to e^4.

(No reproduction).

ASSOCIATION Unified Institute for Nuclear Research
PRESENTED BY
SUBMITTED   1.3.1957
AVAILABLE   Library of Congress.
Card 2/2

SOKOLOV, S. N., SILIN, I. N., AMAGLOBELI, N. S., KAZATINOV, YU. M.,

"Determination of the Coupling Constant of Pion-Nucleon Interaction by Differential Cross Section for Elastic (NP)- Scattering at 90, 380 - 500, 630 Mev"

paper presented at the Intl Conference on High Energy Physics, Rochester, N. Y. and/or Berkly California, 25 Aug - 16 Sep 1960.

82810

S/C2?/60/000/008/003/004

BC 3/B067

24.6600

AUTHOR: Sokolov, S., Scientific Collaborator

TITLE: The First Antihyperons 19   X

PERIODICAL: Tekhnika molodezhi, 1960, No. 8, pp. 16-17

TEXT: The author reports on a discovery made at Dubna near Moscow in
March 1960. It is the discovery of a new elementary particle, the anti-
sigma-minus hyperon. This new particle has a positive electric charge. Its
mass is equal to 2340 electron masses. Its life was $1.2 \cdot 10^{-10}$ sec. This
discovery was the result of collaboration of a group of scientists under
the supervision of Professor Van Gan-chan (China) and Academician V. I.
Veksler (USSR). The following scientists belonged to this group: N. M.
Vir'yasov, Ye. N. Kladnitskaya, A. A. Kuznetsov, A. V. Nikitin, and
M. I. Solov'yev, of the USSR, L. Vrana of Czechoslovakia, Van Tsu-tszen and
Din Da-tszao of China, Kim Khi In of the Korean People's Republic, A. Mikhul
of Romania, and Nguyen Din Ty of the People's Republic of Vietnam. A
further new elementary particle, the anti-sigma-plus hyperon, was discover-
ed soon after by three Italian scientists. It is similar to the particle

Card 1/2

The First Antihyperons

82810

S/029/60/000/008/003/004
B013/B067

discovered at Dubna but is somewhat lighter and has a negative electric charge. These two particles did not surprise physicists for they had been theoretically predicted though not practically observed. At Dubna, 40,000 photographs had to be taken and examined until scientists succeeded in identifying the above particle (Fig. p. 17, center). The discovery of the new particle further completes the concept of the structure of matter and nuclear forces. It is a further contribution to the establishment of a more complete theory of elementary particles. There are 3 figures.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy, Dubna
                (Joint Institute of Nuclear Research, Dubna)

Card 2/3

84389

S/056/60/039/004/007/048
B004/B070

24.6900
AUTHORS: Amaglobeli, N. S., Kazarinov, Yu. M., Sokolov, S. N.,
             Silin, I. N.

TITLE: Determination of the Constant of the π-Meson - Nucleon
             Interaction on the Basis of the Differential Cross Section
             of Elastic np-Scattering

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
             Vol. 39, No. 4(10), pp. 948-953

TEXT: In the introduction, the authors discuss the determination of the
pion - nucleon interaction constant f suggested by G. F. Chew (Ref. 1).
They discuss the different values obtained for f, which can not be
explained as being due to experimental errors. In order to clarify this
problem, they evaluate all the available data on np scattering for 90,
380-400, and 630 Mev (Refs. 2,3) for determining the constant f taking
account of both the poles of the real part of the np scattering
amplitude. They start out from the equation (1):

Card 1/3

84389

Determination of the Constant of the π-Meson -   S/056/60/039/004/007/048
Nucleon Interaction on the Basis of the   B004/B070
Differential Cross Section of Elastic
np-Scattering

$$\sigma_{np}(\vartheta) = a_1 b^2 \left[1/(x_0 - x)^2 + 4/(x_0 + x)^2 \right] + a_2/(x_0 - x) + a_3/(x_0 + x)$$

$$+ \sum_{n=C}^{n_{max}} a_n x^n \quad , \text{ where } x_0 = 1 + \mu^2/2k^2, \ x = \cos \vartheta, \ b = \mu^2/2k^2, \ a_1, \ a_2,$$

...a_r are coefficients which are calculated by the method of least
squares. The results are given in Tables 1 - 4. The authors come to the
conclusion that the experimental data in the energy range studied do not
contradict a constant value for $f^2 = 0.08$. However, for a more rigorous
demonstration of the validity of equation (1), a further accuracy is
required. The regions of ϑ in which a greater accuracy is particularly
required are shown in a diagram. The authors thank Professor Ya. A.
Smorodinskiy, and Professor B. M. Pontekorvo for discussions, and I. N.
Kukhtina for collaboration in the work. There are 1 figure, 4 tables,
and 9 references: 2 Soviet, 5 US, 1 German, and 1 Italian.

Card 2/3

SOKOLOV, S.N.; TOLSTOV, K.D.; SARANTSEVA, V.R., tekhn. red.

[Verification of counting efficiency and estimating the true
number of events]Kontrol' effektivnosti nabliudenii i otsenka
istinnogo chisla sobytii. Dubna, Ob"edinennyi in-t iadernykh
issledovanii, 1962. 10 p.   (MIRA 15:12)
   (Nuclear counters) (Mathematical statistics)

SOKOLOV, S.N.

S-matrix for the one-dimensional Schrödinger equation. Dubna,
Izdatel'skii otdel Ob"edinennogo in-ta iadernykh issledovanii,
1961. 18 p.   (No subject heading)

KAZARINOV, Yu.M.; KISELEV, V.S.; SILIN, I.N.; SOKOLOV, S.N.

Determination of the π-meson - nucleon interaction constant from the differential cross sections of elastic pp-scattering. Zhur.eksp.i teor.fiz. 41 no.1:197-198 Jl '61.

(MIRA 14:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Protons—Scattering)   (Mesons)   (Nucleons)

SOKOLOV, S.N.; SARANTSEVA, V.R., tekhn. red.

[S-matrix for the one-dimensional Schrodinger equation and
its asymptotic behavior in the quasi-classical region]
S-matritsa dlia odnomernogo uravneniia Shredingera i ee asimp-
totika v kvaziklassichaskoi oblasti. Dubna, Ob"edinennyi in-t
iadernykh issl., 1962. 15 p.   (MIRA 15:4)
        (Differential equations)   (Quantum theory)

SOKOLOV, S.N.; SILIN, I.N.

Determination of the coordinates of the minima of
functionals by the linearization method. Dubna, Ob"-
edinennyi in-t iadernykh issledovanii, 1962. 19 p.
(No subject heading)

SOKOLOV, S.N. (Dubna)

     Continuous planning of regression experiments. Part 1. Teor. veroiat. i
    ee prim.8 no.1:95-101 '63.   (MIRA 16:3)
       (Information theory)   (Mathematical statistics)

SOKOLOV, S.N.

       Continuous planning of regression experiments, Part 2.
       Teor. veroiat. i ee prim. 8 no.3:318-324 '63.
                               (MIRA 16:8)

ZAKHAR'YEV, B. N.; SOKOLOV, S. N.

"Effect of Enhanced Barrier Penetrability for Complex Particles."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

OIYaI (Joint Inst Nuclear Physics)

ZAKHAR'YEV, B.N.; SOKOLOV, S.N.; SARANTSEVA, V.R., tekhn. red.

[Virtual excitations of a composite particle] O virtual'-
nykh vozbuzhdeniiakh slozhnoi chastitsy. Dubna, Ob"edinennyi
in-t iadernykh issl., 1964. 17 p.   (MIRA 17:4)

SOKOLOV, S.N.

[Nonlocal potentials and the possible upsetting of Bose
and Fermi statistics] Nelokal'nye potentsialy i vozmozh-
noe narushenie Bose i Fermi statistik. Dubna, Ob"edinen-
nyi in-t iadernykh issl., 1964. 3 p.   (MIRA 17:5)

L 33728-66   T   IJP(c)   SOURCE CODE: GE/0061/65/015/03-/0183/0191
ACC NR: AP6025173   33

AUTHOR: Zakhariev, B. N.; Sokolov, S. N.   B

ORG: Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna

TITLE: Virtual excitation of a compound particle

SOURCE: Annalen der Physik, v. 15, no. 3-4, 1965, 183-191

TOPIC TAGS: particle physics, excitation energy, nuclear particle

ABSTRACT: The one-dimensional motion of three interacting particles was considered
in the case where two formed a compound particle. The effect of the infinite number
of virtual excitations was investigated for the case where the excitation energy of
the compound particle grew quadratically. The population of the higher states was
found to be in an inverse relation to the cube of the excitation energy. The system
of equations taking into account all virtual excitations of the compound particle
could be solved by the Fredholm method. Orig. art. has: 61 formulas. /Orig. art. in
Eng./ /JPRS/

SUB CODE: 20 / SUBM DATE: 03Sep64 / ORIG REF: 001 / SOV REF: 004

LS
Card 1/1

ACC NR: AP7002891   SOURCE CODE: UR/0419/66/000/004/0120/0123

AUTHOR: Gol'tsov, V. P.; Nekrasov, V. N.; Sokolov, S. N.

ORG: Institute of Nuclear Power, AN BSSR (Institut yadernoy energetiki AN BSSR)

TITLE: Electron microscopic study of lanthanum hexaboride LaB6

SOURCE: AN BSSR. Vestsi. Seryya khimichnykh navuk, no. 4, 1966, 120-123

TOPIC TAGS: lanthanum compound, boride, lanthanum oxide, boron, electron
microscopy

ABSTRACT: Lanthanum boride powder was prepared by reacting La_2O_3 and B powders, and studied with an EM-5 electron microscope (magnification 5000 to 140000). The interplanar spacings of the compound LaB_6 were determined by electron and x-ray diffraction, and the data obtained are in satisfactory agreement with the calculated data. A small portion of the lines (3-5%) corresponds to a phase different from LaB_6, apparently, La_2O_3. The study of the shape, size and crystal structure of the synthesized powder confirmed that the product of borothermic reduction of lanthanum oxide is lanthanum hexaboride. Authors thank V. I. Lisovets for providing the LaB_6 powder for the study. Orig. art. has: 3 figures, 2 tables and 1 formula.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 005
           20/

Card 1/1

SOKOLOV, S. N.,

"Study of Thermodynamic Properties of the Vapors of Certain Polyatomic Fluids."
(Dissertation for Degree of Candidate for Technical Sciences) Min Higher Education
USSR, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze, Moscow, 1955

SO: M-1036 23 Mar 56

Sokolov, S.N.

Physical properties of silicone vapors. S. N. Sokolov (Aviation Inst., Moscow). *Zhur. Fiz. Khim.* 30, 2734-9 (1956).—The sp. heat C_p, the vapor pressure of the satd. vapors $p = f(t)$, and the heat of vaporization of the branched silicones $[(C_2H_5)_2SiO]_{4-7}$, b.p. 282°, congealing temp. −70°, mol. wt. 360, kinematic viscosity at 20° = 10 centipoise, $d_{25} = 0.9623$ g./cc., were detd. experimentally. The C_p, detd. in an adiabatic calorimeter can be expressed by $C_p = -0.2545 + 0.151 \times 10^{-2} T - (229/T^2)$, with the variations not exceeding 0.20%. The temp.-vapor pressure relation is well expressed by $\log p = 7.185 - [2198/(T - 43)]$, where T is the absolute temp. The heat of vaporization in the temp. interval of 100-300° $L = 10,040 T^2/(T - 43)^2$ kcal./mol. W. M. Sternberg

SOKOLOV, S.N.

Experimental study of the specific heat of certain hydrocarbon
vapors. Izv. vys. ucheb. zav.; neft' i gaz 2 no.4:79-84 '59.
(MIRA 12:10)

1.Moskovskiy aviatsionnyy institut im. Sergo Ordzhonikidze.
(Hydrocarbons--Thermal properties)

AUTHORS: Sokolov, S. N.,   Erastov, L. N.   S/053/60/070/02/012/016
              B006/B007

TITLE: An Experiment During a Lecture for the Determination of the
              Specific Heat of a Gas at Constant Pressure

PERIODICAL: Uspekhi fizicheskikh nauk, 1960, Vol 70, Nr 2, pp 379-380 (USSR)

ABSTRACT: A schematically represented device for the purpose of determin-
              ing the specific heat of a gas, which is shown in a figure,
              is described. The c_p-determination is carried out according
              to the formula $c_p = Q/G\Delta t$, where G denotes the gas quantity,
              Q, the quantity of heat supplied, and Δt, the temperature in-
              crease of the gas. A c_p-determination by means of the device
              described takes 7 to 10 minutes. There is 1 figure.

Card 1/1

5.3700 2209 only

86474

S/096/61/000/001/012/014
E194/E184

AUTHORS: Sokolov, S.N., Candidate of Technical Sciences,
Lapushkin, S.A., Candidate of Technical Sciences, and
Kopylov, N.I., Candidate of Technical Sciences

TITLE: The Thermal-Physical Properties of Silicone in the
Liquid Phase

PERIODICAL: Teploenergetika, 1961, No. 1, pp. 79-81

TEXT: Although silicones are of considerable technological
interest, very little published data exist about their thermal-
physical properties. The silicone investigated in the present
work was diethylpolysiloxane liquid of the following
characteristics: molecular weight, 400; density 956 kg/m^3 at
20 °C; boiling point, 282 °C at 760 mm mercury; freezing point,
— 70 °C; dynamic viscosity at 20 °C, 9.9×10^{-4} $kg.sec/m^2$; and
the corresponding kinematic viscosity, 10.1 cS. The experimental
procedures used to measure specific heat density, thermal
conductivity and other properties are described. The experimental
data are given in Table 1. Table 2 gives smoothed data for

Card 1/2

S/096/61/000/001/012/014
E194/E184

The Thermal-Physical Properties of Silicone in the Liquid Phase

temperature, pressure, density, specific heat at constant
pressure, thermal conductivity, viscosity, latent heat of
vapourisation and Prandtl's number.

There are 2 tables and 7 references: 6 Soviet and 1 French.

ASSOCIATION: Moskovskiy aviatsionnyy institut
               (Moscow Aviation Institute)

Card 2/2

27855
S/535/61/000/132/002/012
E030/E484

//. 0,0 0

AUTHORS: Sokolov, S.N., Candidate of Technical Sciences
             Tarlakov, Yu.V., Engineer

TITLE: Experimental investigation of the specific heat at
             constant pressure of the vapours of aviation fuels,
             gasoline B-70 (B-70), kerosene T-1 and fuel T-5

SOURCE: Moscow. Aviatsionnyy institut. Trudy, no.132.1961.15-30.
             Teplofizicheskiye svoystva nekotorykh aviatsionnykh
             topliv v zhidkom i gazoobraznom sostoyanii.

TEXT: An apparatus has been developed for measuring specific
heat of vapours at constant pressure equal to or below atmospheric
pressure at temperatures up to 400-500°C.   It is a continuous flow
system with an experimental volume of 100 cm^3 enclosed in a jacket
evacuated to a pressure of 10^{-5} mm Hg, the outer surface of the
tube and inner surface of the jacket are silvered; the tube is
mounted inside a thermostatic oven.   The volume is temperature
controlled to $\pm$ 0.1°C and heat loss corrections are made
experimentally by recording temperatures with and without
electric current in the heaters.   The heat loss is estimated,
both theoretically and graphically, to be 0.5%.   The specific heat
Card 1/3

S/535/61/000/132/002/012
Experimental investigation of ...   E030/E484

results are accurate to about 0.3%.   Each fuel was distilled into
separate fractions, whose specific heats were determined, to
minimize the errors involved in considering multicomponent
mixtures.   Fractions were: gasoline: 45 to 90, 90 to 120,
above 120°C;   T-1: 117 to 160, 160 to 170, 170 to 200, above 200°C;
T-5: 210 to 222, 122 to 250, 250 to 284, above 284°C.   Specific
heats decreased, almost linearly, with molecular weight by about
5% total for each fuel.   Thus, the data could be used to predict
specific heats for any particular system involving those fractions
with appropriate weighting factors.   The temperature ranges
covered for each fuel fraction were - gasoline: 125 to 185,
133 to 237°C for the first two fractions;   T-1: 127 to 176,
170 to 200°C for the second and third fractions; T-5: 147 to 250,
201 to 273°C for the second and third fractions.   There are
10 figures, 11 tables and 14 references: 5 Soviet and 9 non-Soviet.
The three references to English language publications read as follows:
Ref.9: Reynolds W. and Vries T. American Chemical Society, v.72,
no.12, 1950; Ref.11: Still D.F. and Mayfield F.D., Industrial
Engineering Chemistry, no.35, 1943, p.639; Ref.14: Waddington G.,

Card 2/3

27856

S/535/61/000/132/002/012

Experimental investigation of . .   E030/E484

Todd S. and Huffman H., American Chemical Society, v.69, 1947.

[Abstracter's note: No experimental values quoted.]

Card 3/3

27864
S/535/61/000/132/010/012
EO30/E484

11, 0100

AUTHORS: Sokolov, S.N., Candidate of Technical Sciences,
             Tarlakov, Yu.V., Engineer

TITLE: Experimental determination of the saturated vapour
             pressure of some liquid aviation fuels and calculation
             of their heat of vaporization

SOURCE: Moscow. Aviatsionnyy institut. Trudy. no.132. 1961.
             116-122. Teplofizicheskiye svoystva nekotorykh
             aviatsionnykh topliv v zhidkom i gazoobraznom
             sostoyanii.

TEXT: A simple manometric apparatus was used with an adjustable
limb of mercury to enable the vapour:liquid ratio to be kept
constant.   The system was tested with carbon tetrachloride
and agreed to 2% with the tables of Kaye and Laby over the range
21 to 64°C.   For gasoline and T-1, the vapour:liquid ratio was
held at 4:1, and data obtained for the fuel and for the three cuts
into which it was fractionated; the data cover 20 to 150°C
(gasoline) and 20 to 230°C (T-1).   For T-5, two ratios were used,
2:1 and 4:1, and data cover 20 to 270°C.   Latent heats of
vaporization were obtained from the Clausius-Clapeyron relation,
Card 1/2

27864

S/535/61/000/132/010/012

Experimental determination of ...   E030/E484

ignoring the small correction for specific volume of liquid, and determining the specific volume v_{vap} of vapour from the relation

$$v_{vap} = \frac{RT}{p}$$

The values, of the order of 7200 kcal/mole are listed for each fraction and for intervals in the range 20 to 200°C. There are 1 figure and 6 tables.

Card 2/2

SOKOLOV, S.N.; PYATIBRATOV, S.N.

Thermal capacity of liquid hydrocarbons of the methane series.
Izv. vys. ucheb. zav.; neft' i gaz 5 no.7:83-88 '62.
(MIRA 16:7)

1. Moskovskiy aviatsionnyy institut imeni Ordzhonikidze.
(Hydrocarbons—Thermal properties)

S/152/63/000/003/004/005
B117/B186

AUTHORS: Vargaftik, N. B., Kopylov, N. I., Lapushkin, S. A.,
             Pyatibratov, S. N., Sokolov, S. N.

TITLE: Thermophysical properties of monoisopropyl diphenyl

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy., Neft' i gaz,
             no. 3, 1963, 75-78

TEXT: Results are given of detailed investigations into the thermo-
physical properties of monoisopropyl diphenyl in the liquid phase and the
pressure of its saturated vapor. Properties of the sample investigated:
molecular weight 197, n_D^{25} = 1.5696, density at $20^{\circ}C$ ρ = 0.969 g/cm^3,
boiling point $286^{\circ}C$ (760 mm Hg). Conventional measuring methods were used.
The specific heat (c_p) and the density (ρ) were measured with a calorimeter
at $20-398^{\circ}C$ and 10 atm with a maximum error of 0.3% for the density and
1.5% for the specific heat. The heat conductivity (λ) was measured with
a heated wire at $30-209^{\circ}C$, under atmospheric pressure, with an accuracy of
1%. The viscosity (η) under the pressure of saturated monoisopropyl
Card 1/3

Thermophysical properties of ...

S/152/63/000/003/004/005
B117/B186

diphenyl vapor was measured at 20-340°C with a maximum error of 1%. The pressure of the saturated vapor (p_s) was measured at 96-309°C. The error was 0.2°C for the temperature determination and 2 mm for the pressure. To determine the thermophysical properties of monoisopropyl diphenyl, the experimental amounts were generalized for smoothed temperature values, as tabulated (Table 2). The table also gives calculated values of the heat of vaporization (r) and the Prandtl numbers required for calculating the heat exchange. There are 2 tables.

ASSOCIATION: Moskovskiy aviatsionnyy institut im. S. Ordzhonikidze
               (Moscow Aviation Institute imeni S. Ordzhonikidze)

SUBMITTED: January 17, 1963

Table 2. Smoothed values for the thermophysical properties of monoisopropyl diphenyl.

Card 2/3

Thermophysical properties of...

t, °C	ρ, g/km³	c_p cal/g·°C	$\lambda \cdot 10^5$ cal/cm·sec·°C	$\eta \cdot 10^2$ g/cm·sec	p_s mm Hg	r cal/g	Pr
20	0,969	0,412	303	14,1	—	—	19
40	0,962	0,432	297	6,29	—	—	91,5
60	0,953	0,446	289	3,47	—	—	53,4
80	0,943	0,462	283	2,22	—	—	36,2
100	0,932	0,478	278	1,57	1,5	77,0	27,0
120	0,920	0,494	272	1,17	3,5	75,8	21,3
140	0,907	0,510	266	0,890	8,5	75,0	17,1
160	0,893	0,526	261	0,690	19	74,2	13,9
180	0,878	0,542	255	0,555	39	73,3	11,8
200	0,861	0,560	247	0,456	77	72,5	10,3
220	0,845	0,578	241	0,384	142	71,6	9,22
240	0,827	0,597	236	0,330	249	70,5	8,35
260	0,809	0,616	230	0,289	418	69,2	7,74
280	0,791	0,637	225	0,254	671	67,7	7,19
300	0,773	0,658	216	0,224	1042	65,7	6,76
320	0,753	0,681	211	0,198	1570	63,5	6,39
340	0,734	0,705	205	0,175	2291	60,9	6,02
360	0,714	0,730	200	0,155	3266	57,9	5,66
380	0,694	0,758	192	0,137	4539	54,5	5,41
400	0,674	0,788	183	0,124	6194	50,9	5,34

Card 3/3

ACCESSION NR: AP4002283   S/0139/63/000/005/0179/0180

AUTHORS: Sokolov, S. N.; Nikhamina, G. Ya.

TITLE: Laboratory apparatus for determination of specific heat of gases at constant pressure (Cp) by a continuous flow method

SOURCE: IVUZ. Fizika, no. 5, 1963, 179-180

TOPIC TAGS: specific heat of air, air at constant pressure, continuous flow method, specific heat of gas, specific heat isobaric measurement, adiabatic flow calorimeter, calorimetry, thermocouple pyrometer, constant pressure specific heat

ABSTRACT: A laboratory apparatus using a continuous flow method for determination of the specific heat of air at constant pressure (c_p) is described. The basic features are shown in Fig. 1 on the Enclosure. An air blower (1) and a 10-liter cylinder (2) to smooth out pressure variations supply a steady flow of air at a constant pressure p to the calorimeter (3). The volume V of air passing through the calorimeter in a time τ is measured by a gas counter (5). An electric heater (4) heats the gas, causing a temperature difference Δt to exist between the entrance

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ACCESSION NR: AP4002283

and exit of the calorimeter. This temperature difference is determined by copper-constantan thermocouples (9) and (10), the emf of which is measured by a potentiometer (11). Tables are available for determining Δt from the emf. The current I and voltage V supplied to the heater are measured by the ammeter (6) and voltmeter (7) respectively and can be varied by the rheostat (8). To reduce heat loss, the calorimeter is enclosed by a vacuum Dewar jacket. From the definition of specific heat and using the equation of state of an ideal gas,

$$c_p = \frac{0.24\, IU - RT}{p\, VA\, t\, \mu}$$

where R is the universal gas constant. μ is the molecular weight of air and T is the average absolute temperature of the gas in the calorimeter. Here T is room temperature plus $\frac{1}{2}\Delta t$. Good results over the course of two years have been obtained with this apparatus by students. Orig. art. has: 9 equations and 2 diagrams.

ASSOCIATION: Moskovskiy aviatsionniy institut imeni S. Ordzhonikidze (Moscow Aeronautical Institute)

SUBMITTED: 13Aug62   DATE ACQ: 02Dec63   ENCL: 01

Card 2/4

SOKOLOV, S.N.

New equation for calculating the heat capacity of certain
liquid hydrocarbons at different temperatures. Izv. vys. ucheb.
zav.; neft' i gaz 7 no.11:69-70 '64.   (MIRA 18:11)

1. Moskovskiy aviatsionnyy institut im. Sergo Ordzhonikidze.

SOKOLOV, S. N.

PA-2T14

USSR/Oil Drills   Jan-Feb 1947

"The Mark ZIV-75 drill of the Vorovskiy Factory
at Sverdlovsk," S N Sokolov, 3 pp

"Razvedka Nedr" Vol 30, No 1

Description and operating data of a small oil-drill
capable of drilling to a depth of 75 meters

2T14

IVANOVA, G.A., inzhener; SOKOLOV, S.N., inzhener.

Use of the method of statistical analysis for the evaluation of the quality of equipment repair. Vest.mash. 33 no.10:95-99 O '53.   (MLRA 6:10)
(Quality control) (Machinery--Maintenance and repair)

SOKOLOV, S. N.

6680. SOKOLOV, S. N. Statisticheskiye metody analiza kachestva produktsii v mekhanicheskikh tsekhakh. pod obshch. red. s. l. anan'yeva. m., oborongiz, 1955. 47 s. s graf. 23 sm. (materialy po obmenu proizvod. - tekhn. opytom). bespl. -- bibliogr: s. 41 (12 nazv.) - (55-2994) p 621.7/9:658.562+658. .562:519.2+(016.3)

SO: Knizhaya Letopis, Vol. 6, 1955

SOKOLOV, S.N., kandidat tekhnicheskikh nauk; IVANOVA, G.A., kandidat tekhni-
cheskikh nauk.

Degree of dependability of quality control in continuous production.
Standartizatsiia no.3:58-62 My-Je '56.   (MLRA 9:9)
          (Machinery industry--Quality control)

SOKOLOV, S. N.

"Possible Errors in Determining Temperature by Means of the Comb-Type Radiosonde," Trudy NIU GUGMS / Proceedings of the Scientific Research Institute of the Main Administration of Hydrometeorological Service_/, NO 19, 1946.

AGAFOV, Sergey Vasil'yevich; SOKOLOV, Sergey Nikolayevich;
TIKHOMIROV, Dmitriy Ivanovich; FISHCHEVA, T.V., red.;
BORISKINA, V.I., red.kart; KORNEYEVA, V.I., tekhn.
red.

[Geographical dictionary] Geograficheskii slovar'. Mo-
skva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR,
1961. 155 p.   (MIRA 15:4)
          (Geography--Dictionaries)

SOKOLOV, S.P.

DECEASED
C' 1959

1962/6

SEE IIC

NUCLEAR PHYSICS

PATKANOV,N.M.; YATSUN,N.F.; DVORETSKIY,I.V., inzhener; SOKOLOV,S.P.,
inzhener

Determining the shape of shuttle tips for the picking mechanism of
type-H automatic looms. Tekst.prom.15 no.8:30-32 Ag '55.
(MLRA 8:11)

1. Glavnyy inzhener fabriki imeni Dzerzhinskogo Glavlenkhlopproma
(for Patkanov) 2. Nachal'nik tkatskogo tsekha fabriki imeni Dzer-
zhinskogo Glavlenkhlopproma (for Yatsun).
(Pickers (Weaving))

BUSLOVICH, G.Ya.; SOKOLOV, S.P., kandidat tekhnicheskikh nauk.

New abrasive tools used in honing. Vest.mash.36 no.12:49-51 D '56.
(Abrasives)   (Grinding and polishing)   (MLRA 10:2)

SOKOLOV, Sergey Pavlovich; SHNEYDER, Yu.G., kand. tekhn. nauk, retsenzent;
KUDASOV , G.F., kand. tekhn. nauk, red.; GLYASS, V.D., inzh.,red.;
BORODULINA, I.A., red. izd-va; NIKOLAYEVA, I.D., tekhn. red.

[Fine grinding and lapping] Tonkoe shlifovanie i dovodka. Pod ob-
shchei red. G.F.Kudasova. Moskva, Gos. nauchno-tekhn. izd-vo mashi-
nostroit. lit-ry, 1961. 85 p. (Bibliotechka shlifovshchika, no.9)
                                                        (MIRA 14:10)
                    (Grinding and polishing)

PESHKOVA, V.M.; SHLENSKAYA, V.I.; SOKOLOV, S.S.

Photometric determination of palladium with α-furyldioxime.
Trudy kom. anal. khim. 11:328-338 '60.   (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Palladium--Analysis) (Furaldehyde)

VASIN, L.V., inzh.; AKHUN, B.N., inzh.; IVANCHENKO, N.N., kand. tekhn.
nauk; KOLLEROV, L.K., kand. tekhn.nauk; NIKITINA, N.V., inzh.;
SOKOLOV, S.S., kand. tekhn. nauk; FODIN, A.A , red.; YURKEVICH,
M.P., red. izd-va; PETERSON, M.M., tekhn. red.; SPERANSKAYA, O.V.,
tekhn. red.

[Diesel and gas engines; catalog-handbook] Dizeli i gazovye dvigateli;
katalog-spravochnik. Pod red. A.A.Fadina. Moskva, Mashgiz, 1961.
279 p.   (MIRA 14:12)

1. Leningrad. TSentral'nyy nauchno-issledovatel'skiy dizel'nyy in-
stitut.
                    (Gas and oil engines)

KAVALEROV, G.I.; KAVERKIN, I.Ya.; SOKOLOV, S.S.

Definition of the concept of mensuration.   Izm.tekh. no.8:1-3
Ag '62.   (MIRA 16:4)
                          (Mensuration)

SOKOLOV, S.P.

Honing holes in aluminum alloy parts. Stan. i instru. 36 no.1:6
Ja '65.
(MIRA 18:4)

MUSHEGYAN, A.M., prof., doktor biolog. nauk; SOKOLOV, S.Ya., prof.,
      doktor biol. nauk, otv. red.; KOROL', A.Ya., red.;
      NAGIBIN, N., tekhn. red.

[Wild and introduces trees and shrubs of Kazakhstan] Derev'ia
i kustarniki Kazakhstana, dikorastushchie i introdutsirovannye.
Alma-Ata, Kazsel'khozgiz. Vol.1.[Gymnosperm families: Pinaceae-
Ephedraceae. Angiosperm families: Salicaceae - Saxifragaceae]
Golosemennye semeistva: Sosnovye-efedrovye. Pokrytosemennye se-
meistva: Ivovye-kamnelomkovye. 1962.   362 p.   (MIRA 16:5)
         (Kazakhstan--Woody plants)

SOKOLOV, S.S.

Healing of wounds in radiation sickness. Vest.rent. i rad. 31 no.1:
30-41 Ja-F '56.
(MIRA 9:7)

1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I.Blinov) i
kafedry meditsinskoy radiologii (zav. - prof. M.N.Pobedinskiy)
Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey
imeni S.M.Kirova.
        (ROENTGEN RAYS, eff.
            exper. wds., healing)

SOKOLOV, S.S.

Sliding inguinal heria of the colon. Khirurgiia 32 no.2:46-48
F '56.   (MLRA 9:7)

1. Iz 3-y khirurgicheskoy kliniki (zav. prof. N.I.Blinov) Lenin-
gradskogo gosudarstvennogo instituta usovershenstvovaniya vrachey.
          (HERNIA, INGUINAL
               sliding of colon)
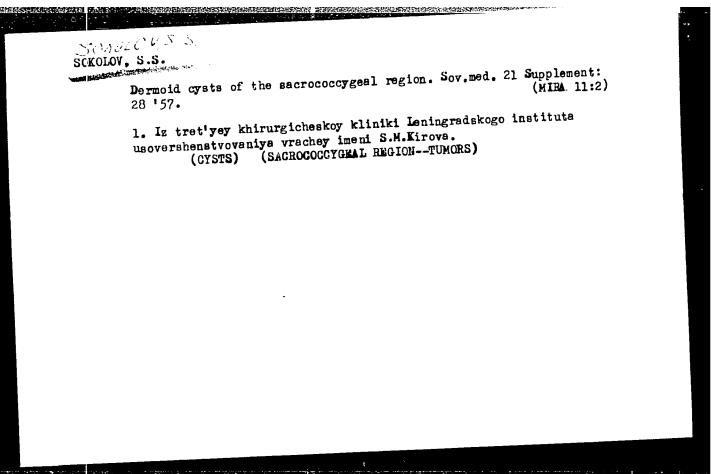
SOKOLOV, S. S.

"Concerning Certain Peculiarities of the Clinical Course of Surgically Treated Wounds After a Preliminary Total Irradiation of Experimental Animals," by S. S. Sokolov, Third Surgical Clinic (head, Prof N. I. Blinov) and Chair of Medical Radiology (head, Prof M. N. Pobedinskiy), State Order of Lenin Institute for Advanced Training of Physicians imeni S. M. Kirov, Vestnik Khirurgii, Vol 77, No 6, Jun 56, pp 42-47

Studies on the course of wounds in irradiated guinea pigs suffering from acute radiation sickness proved that the most characteristic syndromes were leukopenia with the white count diminishing down to 2,000 and 1,000 white cells per cubic millimeter, and excessive hemorrhage at the periphery of the wounds. Typical signs of general wound inflammation were absent and hemorrhages frequently complicated the postoperative period. (U)

SUM.1360

SOKOLOV, S.S.

Dermoid cysts of the sacrococcygeal region. Sov.med. 21 Supplement:
28 '57.

(MIRA 11:2)

1. Iz tret'yey khirurgicheskoy kliniki Leningradskogo instituta
usovershenstvovaniya vrachey imeni S.M.Kirova.
   (CYSTS)   (SACROCOCCYGEAL REGION--TUMORS)

BYSTROVA, V.V., SOKOLOV, S.S.

Morphological characteristics of wound healing processes in radiation sickness. Med.rad. 3 no.5:71-77 S-O '58   (MIRA 11:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. P.V. Sipovskiy) i 3-y khirurgicheskoy kliniki (zav. - prof. N.I. Blinov) Leningradskogo instituta dlya usovershenstvovaniya vrachey imeni S.M. Kirova.
      (ROENTGEN RAYS, eff.
          on exper. wds. healing (Rus))
      (WOUNDS AND INJURIES, exper.
          eff. of x-rays on healing (Rus))

SOKOLOV, S.S. (Leningrad, Khersonskaya ul., d.2/9, kv.37)

Resection of the rectum and sigmoid flexure using invagination method.
[with summary in English]. Vop.onk. 4 no.3:329-332 '58 (MIRA 11:8)

1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I. Blimov)
Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey im.
S.M. Kirova (dir. - prof. N.I. Blimov).
           (INTESTINE, LARGE, neoplasms,
              surg., recto-sigmoid resect. with invagination method
              (Rus))

SOKOLOV, S.S., kand.med.nauk

Extra-articular osteomyelitis of the femur neck. Khirurgiia
35 no.4:121-123 Ap '59.   (MIRA 12:8)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof.
F.G.Uglov) I Leningradskogo meditsinskogo instituta imeni
akad. I.P.Pavlova.
          (OSTEOMYELITIS, case reports
                femur neck, extra-articular, surg. (Rus))
          (FEMUR NECK, dis.
                osteomyelitis, extra-articular, surg. (Rus))

UGLOV, F.G., prof.; SOKOLOV, S.S. (Leningrad)

Prevention of complications encountered in operations on the
open heart under conditions of hypothermia. Khirurgiia 36
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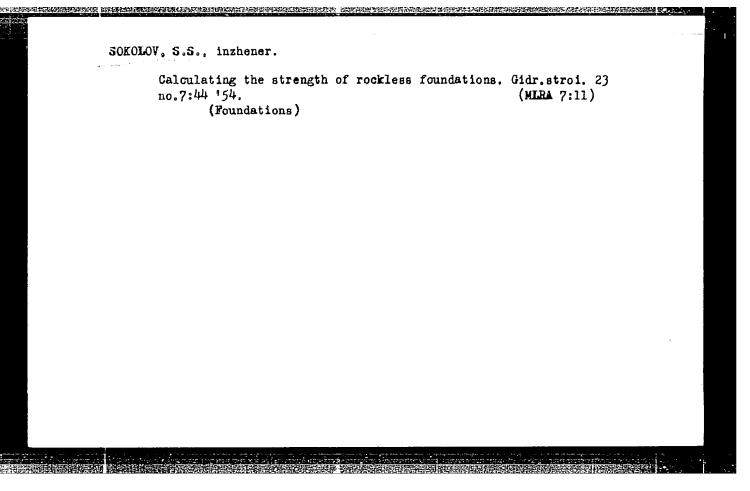REBINDER, P. A.; SOKOLOV, S.S., KOSTIMENKO, G. I., Engs.

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PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 7, pp 59-62 (USSR)

ABSTRACT: Different methods of research on the shear strength
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are 2 tables and 5 graphs.

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