

Name: ZARUBIN, Solomon Abramovich

Dissertation: Remote Consequences of the Resection
of the Stomach in the case of '...
Ulcers

Degree: Doc Med Sci

Affiliation: [Not indicated]

Defense Date, Place: 4 Nov 55, Council of Gor'kiy State
Med Inst imeni Kirov

Certification Date: 1 Dec 56

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ZARUBIN, S.A., doktro med.nank

In memory of Efim L'vovich Berezov. Vest.khir. 82 no.1:159-160
Ja '59. (MIRA 12:2)

(BEREZOV, EFIM L'VOVICH, 1895-1958)

EXCERPTA MEDICA Sec 9 Vol 13/6 Surgery June 59

3280. BLOOD SUGAR AND THE HYPOGLYCAEMIC SYNDROME IN ULCER
PATIENTS SOME TIME AFTER GASTRIC RESECTION (Russian text) -
Zarubin S. A. - KLIN. MED. (Mosk.) 1958, 36/2 (15-21) Graphs 3
Tables 3

Laboratory examinations of the blood sugar level showed in the majority of 200 patients who underwent partial resection, a rapid rise in the b. s. l. followed by a rapid fall and a tendency to the development of hypoglycaemia, considered by the author to be typical. The hypoglycaemic syndrome develops usually in patients operated upon in early life, and occurs twice as often in the first 5 yr. as in the later period.
Zakryš - Lublin

ZARUBIN, S.A., doktor med.nauk (Gor'kiy)

Blood sugar and the hypoglycemic syndrome in peptic ulcer some
time after gastrectomy. Klin.med. 36 no.2:15-21 P '58.
(MIRA 11:4)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (dir. - zasluzhennyy
deyatel' nauki prof. Ye.L. Berezov) Gor'kovskogo meditsinskogo
instituta imeni S.M.Kirova (dir. - dotsent N.M.Mizinov)

(GASTRECTOMY, in various dis.

peptic ulcer, remote hyperglycemia followed by
hypoglycemia (Rus))

(HYPERGLYCEMIA

remote seq. of gastrectomy in peptic ulcer, followed
by hypoglycemia (Rus))

(HYPOGLYCEMIA

remote seq. of gastrectomy in peptic ulcer, preceded
by hyperglycemia (Rus))

ZARUBIN, S.A., doktor med.nauk (Gor'kiy)

Diseases and complications following resection of the stomach in peptic ulcer. Klin.med. 37 no.11:26-32 N '59. (MIRA 13:3)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (direktor - zasluzhennyy deyatel' nauki prof. Ye.L. Beresov [deceased]) Gor'kovskogo meditsinskogo instituta imeni S.M. Kirova (direktor - dotsent N.N. Misinov).
(GASTRECTOMY complications)

ZARUBIN, S.A., doktor, med.nauk (Gor'kiy, ul. M.Gor'kogo, d.226, kv.1)

Work capacity long after gastric resection for peptic ulcer [with summary in English]. Vest.khir. 80 no.4:28-33 Ap'58 (MIRA 11:5)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. Ye.L. Berezov) Gor'kovskogo meditsinskogo instituta im. S.M. Kirova.
(GASTRECTOMY,

postop. work capacity in peptic ulcer, long-term follow-up (Rus))

(WORK

capacity after gastrectomy for peptic ulcer, long-term follow-up (Rus))

ZARUBIN, S.A., doktor med.nauk

Late results of gastric resection for low duodenal ulcers [with summary in English]. *Khirurgiia* 34 no.5:60-66 My '58 (MIRA 11:7)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (dir. - zaslyzhennyy deyatel' nauki prof. Ye.L. Berezov) Gor'kovskogo meditsinskogo instituta imeni S.M. Kirova (dir. - dots. N.N.Mizinov).

(GASTRECTOMY,

in low duodenal ulcer, long-term results (Rus))

ZARUBIN, S.A., doktor med.nauk

Remote results of repeated operations on the stomach (resection).
Sov.med. 21 no.8:56-61 Ag '57. (MIRA 10:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (dir. - zasluzhennyy
deyatel' nauki prof. Ye.L.Berezov) Gor'kovskogo meditsinskogo
instituta imeni S.M.Kirova.

(GASTRECTOMY

repeated, late sequelae (Rus))

ZARUBIN, S. A.

ZARUBIN, S. A. - "Delayed consequences from resection of the stomach in ulcerous disease." Gor'kiy, 1955. Gor'kiy State Medical Inst Irena S. M. Kirov. (Dissertations for degree of Doctor of Medical Sciences.)

SO: Knizhnaya letopis', No 18. 26 November 1955. Moscow.

LADYZHENSKIY, B.N.; KULINICH, V.P.; KATEYEV, Yu.V.; ZARUBIN, S.N.; ROZENBLIT,
Ya.L.; AEROSIMOV, V.I.

Desulfuration of acid electric steel by the blowing-in of powderlike
limestone. Lit. proizv. no.8:42-43 Ag '64. (MIRA 18:10)

GUSEV, A.N.; ZARUBIN, S.S.; BOGDANOV, I.I.

Press for the semiautomatic upsetting of bolt heads. Kuz.-shtam.
proizv. 5 no.5:32-38 My '63. (MIRA 16:9)

ZHURKIN, Ivan Alekseyevich; ZARUBIN, V.; KATAGOSHCHIN, B.

[Mikhaylov]Mikhailov. Riazan' Riazanskoe knizhnoe izd-vo,
1961. 52 p. (MIRA 15:8)

(Mikhaylov)

ZARUBIN, Y.A.

Wine and wine making---accounting

Drawing up the final report on first-stage wine making. Vin. SSSR 12 No. 8, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952 Unclassified

ZARUBIN, Vasily Andreyovich; GERASIMOV, M.A., prof., retsenzent;
BUYEVEKOVA, Ye.M., inzhener, retsenzent; KRUGLOVA, G.I., red.;
KISINA, Ye.I., tekhn.red.

[Primary wine making] Pervichnoe vinodelie. Moskva, Fishchepromizdat,
1957. 102 p. (MIRA 10:12)

(Wine and wine making)

BEGUNOVA, Roza Davidovna; ZAKHARINA, Ol'ga Solomonovna; ZARUBIN, Vasilii
Andreyevich; PAVLOV-GRISHIN, Sergey Ivanovich; CHALENKO, Dmitriy
Kalinovich; FEDOROVICH, Aleksandr Georgiyevich; GERASIMOV, M.A.,
retsensent; BUYEVEROVA, Ye.M., spetsred.; KOVALEVSKAYA, A.I., red.;
GOTLIB, E.M., tekhn.red.

[Technology and chemical control of grape, fruit, and berry wines]
Tekhnologiya i tekhnokhimicheskii kontrol' vinogradnykh i plodovo-
iagodnykh vin. Moskva, Pishchepromizdat, 1959. 460 p.

(Wine and wine making)

(MIRA 13:3)

AUTHOR: Zarubin, V. A. SOV/163-58-2-2/46

TITLE: The Determination of the Thermodynamic Activities in Ternary Systems According to the Composition of the Vapor Phase
(Opredeleeniye termodinamicheskikh aktivnostey v trekhkomponentnoy sisteme po sostavu parobraznoy fazy)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 2, pp. 12-15 (USSR)

ABSTRACT: A method for the determination of the thermodynamic activities of the components from melts and solid alloys employing the composition of the vapor phase was suggested. The method is characterized by its simplicity. The determination is possible with 5-6% of errors. The following equation is used for the binary systems of the melts or of the solid alloys:

$$d \ln p_2 = \left(\frac{N_3}{N_2} - \frac{N_1}{N_2} \right) dN_1 + \left(\frac{N_3}{N_2} - \frac{N_2}{N_2} \right) dN_2$$

In this equation N_1 , N_2 and N_3 denote the molar part of the components in the condensed phase and \dot{N}_1 , \dot{N}_2 and \dot{N}_3 the molar

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SOV/163-58-2-2/46

The Determination of the Thermodynamic Activities in Ternary Systems.
According to the Composition of the Vapor Phase

part of the components in the vapor phase.
The partial pressure of the vapor phase of the components of the ternary system Fe-Ni-Cr were determined by means of the following equation:

$$\ln \frac{P_g}{P_{\text{Fe-Cr}}} = \int_{N_{\text{Fe}}}^{N_{\text{Cr}}} \left(\frac{N_{\text{Cr}}}{N_{\text{Cr}}} - \frac{N_{\text{Fe}}}{N_{\text{Fe}}} \right) + \int_{N_{\text{Cr}}}^{N_{\text{Ni}}} \left(\frac{N_{\text{Cr}}}{N_{\text{Cr}}} - \frac{N_{\text{Ni}}}{N_{\text{Ni}}} \right) d N_{\text{Ni}} \quad (7)$$

The thermodynamic activity of iron was determined by its content in the ternary system Fe-Ni-Cr with the chromium content remaining constant. The method suggested is simple as it is not necessary to determine the evaporation surface but only the composition of the vapor. There are 4 figures.

ASSOCIATION: Moskovskiy Institut stali (Moscow Steel Institute)

SUBMITTED: November 21, 1957

Card 2/2

5(4), 24(8)

AUTHOR: Zarubin, V. A. (Moscow)

SSV/76-33-1-24/45

TITLE: The Calculation of Thermodynamic Activities in Ternary Systems (K raschetu termodinamicheskikh aktivnostey v troynykh sistemakh)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 1, pp 147 - 151 (USSR)

ABSTRACT: The thermodynamic activity can be calculated from data on vapor pressure. Above all, low vapor pressure is determined by the method of Knudsen or Langmuir (Lengayur) (also with variations). Experimental difficulties arising in this connection can be removed by calculating the vapor pressure from the composition of the gas phase. A corresponding equation was obtained for binary systems (Ref 1) for calculating the thermodynamic activities of the components of the systems Fe-Ni, Fe-Co, and Fe-Mn. In the case under discussion this mathematical relation is deduced for ternary systems and is simpler than the calculation method (Ref 2). The author starts from the Dyugem-Margules equation for three-component systems and explains the calculation by

Card 1/2

The Calculation of Thermodynamic Activities in Ternary Systems

SOV/76-33-1-24/45

using a concentration triangle (Fig 1). The value of the vapor pressure of the pure component is used for the calculation. The determination of the summary vapor pressure over the condensed phase from the composition of the steam phase and the condensed phase for the system benzene-cyclohexane-isopropanol at 40°C, using the data by L. V. Storonkin and A. P. Morachevskiy (Ref 3), is described as an example. There are 3 figures, 2 tables, and 3 references, 2 of which are Soviet.

ASSOCIATION: Institut stali im. I. V. Stalina (Steel Institute imeni I. V. Stalin)

SUBMITTED: July 2, 1957

Card 2/2

ZARUBIN, V.A.

Graphic registration of the pulse in surgical patients. *Khirurgia*
no.11:27-30 N '54. (MLRA 8:3)

1. Iz kafedry anatomii i fiziologii Krasnodarskogo pedagogicheskogo
instituta (zav. kafedroy V.A.Zarubin) i kafedry gosital'noy khirurgii
Krasnodarskogo meditsinskogo instituta (zav. kafedroy prof. G.N.
Luk'yanov)

(PULSE, determination,
graphic technic)

ZARUBIN, V.A.

Nature of modification of the pulse before and after application
of various therapeutic procedures at a health resort. Terap.arkh.,
26 no.1:50-59 Ja-F '54. (MLBA 7:5)

1. Iz kafedry anatomii i fiziologii (zav. V.A.Zarubin) Krasno-
darskogo pedagogicheskogo instituta.

(BALNEOLOGY,

eff. on pulse of various ther. applications)

(SUNLIGHT, effects,

on pulse in heliother.)

(PULSE,

eff. of balneother. & heliother.)

ZARUBIN, Y.A. (Yalta)

Method for an objective study of changes in the cardiovascular system in normal and pathological states. Vrach.delo no.5:525 My '57.
(MLRA 10:8)

1. Institut klimatologii i klimatoterapii tuberkuleza im. I.M. Sechenova
(SPHYGMOGRAPH)

ZARUBIN, V.A.---(Yalta)

Apparatus for recording pulse, blood pressure, and vascular tone.
Vrach.delo no.7:739 J1'56 (MIRA 1119)

1. Eksperimental'nyy otdel nauchno-issledovatel'skogo instituta
imeni I.M. Sechenova.
(SPHYGMANOMETER)

ZARUBIN, V.A., dotsent (Yalta)

Vascular rous and a method of studying it. Vrach,delo no.10:1025-
1028 0 '59. (MIRA 13:2)

1. Institut klimatologii i klimatoterapii imeni I.M. Sechenova.
(CARDIOVASCULAR SYSTEM) (PLETHYSMOGRAPHY)

ZARUBIN, V.A.

A method for determining blood pressure using two sleeves. Fiziol.
zhur. 45 no.5:618-621 My '59. (MIRA 12:7)

1. Eksperimental'nyy otdel Instituta klimatologii i klimatoterapii
im. I.M. Sechenova, Yalta.
(BLOOD PRESSURE, determ.
2 arm-bands technic (Rus))

ZARUBIN, V.A.

Perspectives for the development of climatophysiology and
climatotherapy. Vop. kur., fizioter. i lech. fiz. kul't.
30 no.4:369-371 JI-Ag '65. (MIRA 18:9)

1. Institut meditsinskoy klimatologii i klimatoterapii imeni
I.M. Sechenova (dir. B.V. Bogutskiy), Yalta.

VASILENKO, F.D., prof., red.; ZARUBIN, V.A., dots., red.

[Materials of the All-Union Scientific Conference on
Experimental Health Resort Therapy and Physiotherapy]
Materialy Vsesoiuznoi nauchnoi konferentsii po ekspe-
rimental'noi kurortologii i fizioterapii. Moskva,
M-vo zdravookhraneniia SSSR, 1962. 407 p.

(MIRA 17:1)

1. Vsesoyuznaya nauchnaya konferentsiya po eksperimental'-
noy kurortologii i fizioterapii. 2. Tsentral'nyy nauchno-
issledovatel'skiy institut kurortologii i fizioterapii,
Moskva (for Vasilenko). 3. Institut meditsinskoy klimato-
logii i klimatoterapii imeni I.N.Sechenkova, g. Yalta
(for Zarubin).

ZARUBIN, V.A. (Yalta)

State of arterial and venous tonus in various diseases. Vrach.
delo no.8:48-52 Ag '62. (MIRA 15:11)

1. Institut meditsinskoy klimatologii i klimatoterapii imeni I.M.
Sechenova, Yalta.

(BLOOD VESSELS)

ZARUBIN, V.A. (Yalta)

Age-related changes in the venuous and arterial tonus. Vrach.
delo no.4:27-30 Ap'63. (HIRA 16:7)

1. Institut meditsinskoy klimatologii i klimatoterapii imeni
I.M.Sechenova.
(BLOOD VESSELS) (AGE)

ZARUBIN, V.A.

Effect of hot weather on vascular tone. Vop.kur., fizioter.i lech.
fiz.kul't. 27 no.2:103-109 Mr-Ap '62. (MIRA 15:11)

1. Iz Instituta klimatologii i klimatoterapii imeni I.M.Sochenova
v Yalte (dir. - prof. S.R.Tatevoshov).
(TEMPERATURE---PHYSIOLOGICAL EFFECT)(BLOOD VESSELS)

ZARUBIN, Vasilii Andreyevich; MOGIILYANSKIY, N.K., doktor tekhn. nauk,
retsenzont; SMASHILOVA, V.P., inzh., retsenzont; KOVALEVSKAYA,
A.I., red.; SOKOLOVA, I.A., tekhn. red.

[Making of fruit and berry wines]Proizvodstvo plodovo-
iagodnykh vin. Moskva, Pishchepromizdat, 1962. 105 p.
(MIRA 15:11)

(Fruit wines)

POPOVA, Yevgeniya Yevdokinovna; ZARUBIN, V.A., ratsenaent;
KHE-EL'NITSKAYA, A.Z., red.; SATAROVA, A.M., tekhn. red.

[Meads] Medovye vina. Moskva, Pishchepromizdat, 1961. 63 p.
(MIRA 15:4)

(Mead)

ZARUBIN, V.A.; BUYEVEROVA, Ye.M., retsenzent; CHERNOV, N.N., retsenzent;
KOVALEVSKAYA, A.I., red.; SOKOLOVA, I.A., tekhn. red.

[Care of young wine; secondary processes of wine making] Ukhod za
malodym vinom; vtorichnoe vinodelie. Izd.2. Moskva, Pishcheprom-
izdat, 1961. 78 p. (MIRA 14:8)
(Wino and wine making)

ZARUBIN, V.F.

5(2), 5(4)
AUTHOR: Sokolova, O. I.
TITLE: Results of the Competition for the Best Improving
Suggestion (Itogi Nauchnoy i Tekhnicheskoy Raboty
v SSSR)

507/6-22-1-1/25
Geodesiya i kartografiya, 1953, Nr 7, pp 17-21 (USSR)

ABSTRACT:
In May 1953, the ordinary competition for the best improv-
ing suggestion in the field of topographic-geodesic and
cartographic production was held at the Glavnoye uprav-
leniye geodesii i kartografii MVD SSSR (Main Administration
of Geodesy and Cartography of the Ministry of Internal Affairs
of the USSR). 7 aerographic services, 8 cartographic institutes
and 100 individuals took part. A total of 30 topographic-geodesic and
cartographic suggestions were submitted. The 1st prize
of 1,000 rubles was awarded to V. A. Morozov and V. P. Trusev
(Minskaya kartograficheskaya fabrika (Minsk Cartographic
Plant)) for the "Teleskopno-fotograficheskaya (Telescope-
Photographic) Method".

The 2nd prize of 750 rubles was awarded to: 1) Ya. A.
Brazhnikov, V. K. Yarushev, P. G. Kalyayko, O. E. Keller
and V. Stepanov (MVD) for "Technology of the Use of Standard
Bases (Ispol'zovanie Standartnykh Osnovaniy)"; 2) V. Gurovich, V. K. Yarushev,
B. O. Radovitskiy, G. I. Shchegolev, I. V. Zhukovskiy for

"Accuracy of the Method of Measuring Distances by
(Tocnost' Izmereniya Distantsii)"; 3) V. A. Morozov (Minskaya ACP (Minsk ACP)) for
"Reduction of Errors in Evaluating the Accuracy of Symmetric
Geodesic Figures Formed by Figures of Regular Shape"; 4) Ya. A.
Brazhnikov (Sverdlovskaya ACP (Sverdlovsk ACP)) for "Light
Collapsible Ladder of Bural for Prospecting"; - the 3rd prize
of 500 rubles each were awarded to: 1) E. P. Zhuravlin
(Tatarskaya ACP (Tatarsk ACP)) for "Establishment of the A
Points by the Method of Threading by Means of Paper"; 2) B.
G. Chikanik (Yakutskaya ACP (Yakutsk ACP)) for "Construction
of an Gravelled Trolley for 'Underpassing'"; 3) L. A. Kargin
(Moskovskaya ACP (Moscow ACP)) for "Method of Measuring
of Photographs on the 'Trapezoid'"; 4) V. P. Zambin (Muzkorskiy
ACP (Muzkorskiy ACP)), I. V. Gurovich, E. I. Alkaidarova,
A. M. Krasovskiy, V. K. Yarushev and Ya. K. Kuznetsov (Sverdlovsk
ACP (Sverdlovsk ACP)) for "Method of Calculation and Edition of Topographic
Maps by the Photorelief Method"; 6) M. F. Glushanin (Minskaya
kartograficheskaya fabrika (Minsk Cartographic Institute))
for "Vertical Piling Machine for Producers"; 7) A. A. Yarkov
(Chukhotskaya kartograficheskaya fabrika (Chukotka
Graphic Institute)) for "Mechanism for the Loading of
with Paper Rolls"; 8) A. E. Yezhovskiy (Sverdlovskaya ACP
(Sverdlovsk ACP)) for "Application of an Illuminating Device with
Luminous Lamps"; 9) V. A. Morozov (Sverdlovskaya
ACP (Sverdlovsk ACP)) for "Method for Measuring in the Prepara-
tion of Map Contours and Final Compilations"; 10) Ya. A.
Brazhnikov (Sverdlovskaya ACP (Sverdlovsk ACP)) for "Me-
chanism of the Contact Mechanism in the Microometer";
11) E. P. Trusev (Minskaya ACP (Minsk ACP))
for "Formulas and Form for a Large Rational Computation of
Superelevations from the Trigonometric Levelling"; 12) Ya. A.
Brazhnikov (Sverdlovskaya ACP (Sverdlovsk ACP)) for "Me-
chanism of the Levelling Staff"; 13) A. A. Yarkov
(Chukhotskaya ACP (Chukotka ACP)) for "Method and Table for
Extreme Divergences between True Terms of Polar and
Base Conditions Computed from a Ball"; - Besides
these conditions competition were approved by the Jury: 1) E. I.
Kargin (Moskovskaya ACP (Moscow ACP)), "Underframe for
Observations from the Telescopio Tower"; 2) E. V. Gurovich

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Card 2/6

Card 3/6

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CIA-RDP86-00513R001963830008-3"

ZARUBIN, V. F.

AUTHORS: Ganich, A.A., Zarubin, V.F. and Yakovlev, V.G. (Engineers). ^{133-6-4/33}

TITLE: Automatic gathering and weighing of blast furnace burden materials with a conveyor belt delivery to skips.
(Avtomaticheskiy nabor i vzveshivaniye shikhty dlya domennoy pechi pri transporternoy podache v skip).

PERIODICAL: "Stal'" (Steel), 1957, No.6, pp. 496-500 (USSR).

ABSTRACT: A project of automation of gathering, weighing and conveyor belt delivery of burden materials to skips for one of the Magnitogorsk furnaces designed by Gipromez and the Sverdlovsk Branch of the Tyazhpromelektroproyekt is described (Figs.1 and 2). Operating conditions: furnace output - 2500 ton/day with 270 five-skip charges/day; 5 burden components - sinter, manganese addition (manganese ore and open hearth slag); acid additions, limestone and coke; charging sequence can be varied. The diagram of the operation of the burden gathering system for various charging sequences is shown in Fig.3. It is expected that a considerable increase in the efficiency of burden delivery will be obtained with a simultaneous 7.4% decrease in the weight of the equipment (from 367 to 340 ton/furnace).

There are 3 figures.

Card 1/2

133-6-4/33

Automatic gathering and weighing of blast furnace burden materials with a conveyor belt delivery to skips. (Cont.)

ASSOCIATION: Magnitogorsk Branch of Gipromez. (Magnitogorskiy Filial Gipromeza).

AVAILABLE: Library of Congress
Card 2/2

ZARUBIN, V.G., inzh.

Inadvisability of using joints in designing shafts. Sudostroenie
24 no.3:56-57 Mr '58. (MIRA 11:4)
(Shafting)

ZARUBIN, V.K.; LEVENSON, L.I., tekhnolog.

Repairing worn-out bobbins of roving frames. Tekst.prom.14 no.12:
47-48 D'54. (MIRA 8:2)

1. Konstruktor zavoda Tashtekstil'mash (for Zarubin).
(Bobbins (Textile machinery))

S/121/62/000/007/006/006
D040/D113

AUTHORS: Parilov, V. A., and Zarubin, V.K.

TITLE: A new paste for polishing nonferrous metals

PERIODICAL: Stanki i instrument, no. 7, 1962, 41.

TEXT: A new method of simultaneously grinding and polishing nonferrous metals, using a special new paste, is described. Finish up to Soviet class 14 is reached much faster than by any existing polishing methods. The paste composition (per 1 kg) is: 100 g sapphire powder prepared from ammonium alum with cobalt nitrate and magnesium oxide, 750 g oleic acid, and 150 g ceresine wax. The preparation of the paste and sapphire powder is described in detail. The effect of the paste is explained by the fact that the oleic acid loosens the oxides on the metal. Recommendations are given for the polishing techniques and the fabrics to be used for the polishing buffs.

Card 1/1

ZARUBIN, V.M.. inzh.

Mechanization of the loading of raw material at the Mikhnevo
Peat Briquetting Plant. Torf.prom. 36 no.4:13-14 '59.
(MIRA 12:9)

1. Mikhnevskiy torfobriketnyy zavod.
(Mikhnevo--Peat machinery) (Loading and unloading)

ZARUBIN, V.M.

Operation of KDN-2 machines in winning block peat by layers during
the 1956 season. Torf. prom. 34 no.3:31-33 '57. (MLBA 10:5)

1. Mikhnevskoye torfopredpriyatiye.
(Peat machinery)

ZARUBIN, V. M.

The simplest methods of extracting peat. Moskva. Moskovskii
bol'shevik, 1943. 46 p. (49-57895)

TN837.Z38

ZARUBIN, V. M.

Pressing Machinery

Lengthening the period of a plunger's service, *Torf. prom.*, 29, No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

PESHKOV, B.I.; ZARUBINA, V.N.

Gassing marmot burrows with hexachlorane applied by means of an
automobile exhaust pipe. Izv. Irk. gos. nauch.-issl. protivochum.
inst. 21:356-363 '59. (MIRA 14:1)
(RODENT CONTROL) (CYCLOHAXANE) (MARMOTS)

ZARUBIN, V. M.

The industrial and financial plan and the economic operation of dairy kolkhozes.
Moskva, Sel'khozgiz, 1933. 64 p.

Yukin HD1306.237

ZARUBIN, Y.S., assistant

Method for calculating gas composition at high temperatures.
Izv.vys.ucheb.zav.; mashinostr. no.6:178-184 '59.
(MIRA 13:5)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N.E.
Baurmana.

(Combustion)

ACCESSION NO. ~~AP3004714~~

8/0147/63/000/0002/0003, 0007

AUTHOR: Zarubin, V. S.

72

TITLE: On the ultimate time interval in numerical calculation of aerodynamic heating

SOURCE: IVUZ. Aviatn. tekhnika, no. 2, 1963, 3-7

TOPIC TAGS: aerodynamic heating parameter, heat exchange, ultimate time interval, thermal conductivity, thermal insulation, numerical calculation

ABSTRACT: An approximate method for calculating the aerodynamic heating of thin, outside airplane-surface elements is applied to the determination of the ultimate time interval. The two cases of surfaces with and without thermal insulation are considered with a certain number of assumptions. Formulas for the element temperature at time

$$T_k + 1 = T_k + \Delta T_k$$

are derived from the thermal balance equation, and graphs of temperature variation with respect to the time interval are given in the cases when T_k is higher or lower than the equilibrium temperature T_k . Expressions for minimum values

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L 12947-63

ACCESSION NO: AP3004714

of the ultimate time interval $[\Delta t]_{min}$ are established for both cases. This method is stated to be very convenient for computer calculation of aerodynamic thermal heating, and it facilitates determining the value of the ultimate time interval at which the results of numerical calculation conserve the physical meaning. Orig. art. has: 2 figures and 16 formulas.

ASSOCIATION: none

SUBMITTED: 06Oct62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: AI

NO REF SOV: 003

OTHER: 000

Card 2/2

ZARUBIN, V.S.

Limiting time interval for the numerical calculation of aerodynamic heating. Izv. vys. ucheb. zav.; av. tekhn. 6 no.2:3-7 '63.

(MIRA 16:8)

(Aerodynamic heating)

ZARUBIN, V.I. (Moscow)

Temperature state of a semitransparent spherical shell. RMTF
no.3-175-176 My-Js '84, (MIRA 17.6)

ZARUBIN, V.S.

Accuracy of numerical calculation of the aerodynamic heating of
the cover. Izv.vys.ucheb.zav.; av.tekh. 7 no. 1:3-10 '64.
(MIRA 17:5)

ACCESSION NR: AP3004622

S/0145/63/000/003/0087/0092

AUTHOR: Zarubin, V. S. (Candidate of technical sciences)

TITLE: Optimum geometry for fins on heat transfer surfaces

SOURCE: IVUZ. Mashinostroyeniye, no. 3, 1963, 87-92

TOPIC TAGS: heat exchanger, heat exchanger fin, fin effectiveness, finned heat exchanger surface

ABSTRACT: A heat transfer surface covered with fins of rectangular cross section (\bar{c} = fin height, b = thickness, a = spacing between fins) was considered. Equations for optimizing heat transfer to the surrounding medium for this geometry were formulated and a general map of heating effectiveness as a function of fin height \bar{c} , conductivity k , and spacing parameter $z = b/a$ was calculated for optimum heat transfer. The map is shown in Fig. 1 of the Enclosure where

η_{\max}^{-1} is plotted for convenience in calculating. The dotted line represents the limiting case of infinite fin height. Orig. art. has: 5 figures and 12 formulas.

Card 1/3

ACCESSION NR: AP3004622

ASSOCIATION: MVTU im. I. E. Bauman

SUBMITTED: 21Jun62

DATE ACQ: 15Aug63

ENCL: 01

SUB CODE: TD

NO REF SOV: 002

OTHER: 001

Card . 2/3

ENCLOSURE: 01

ACCESSION NR: AP3004622

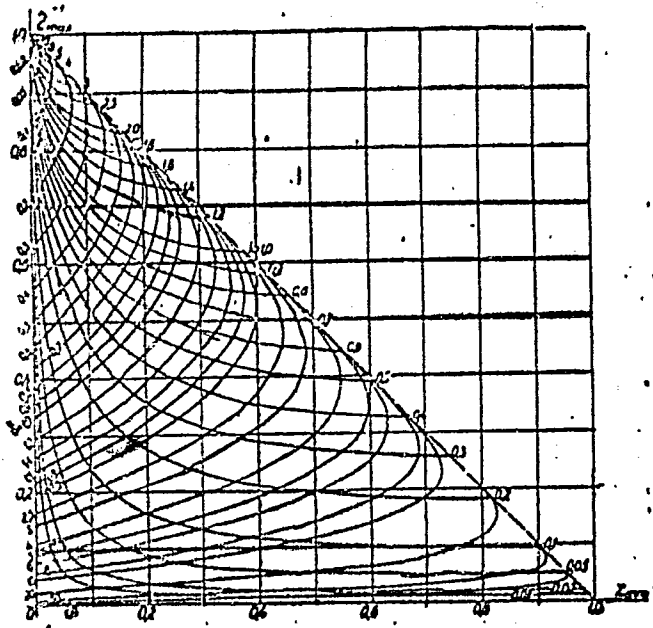


Fig. 1. Map of optimum fin geometry

Card 3/3

ZARUBIN, V.S. (Moskva)

Temperature state of a thin spherical shell. PMTF no. 6:169-171
N-D '63. (MIRA 17:7)

ACCESSION NR: AP4033034

S/0147/64/000/001/0003/0010

AUTHOR: Zarubin, V. S.

TITLE: The accuracy of the numerical computation of the aerodynamic heating of aircraft skin

SOURCE: IVUZ. Aviatzionnaya tekhnika, no. 1, 1964, 3-10

TOPIC TAGS: aerodynamic heating, numerical analysis, numerical integration, applied mathematics, heat transfer, heat exchange, heat flow, differential equation, heat insulation, thermophysics, aircraft, aircraft skin

ABSTRACT: The author notes that the computation of the aerodynamic heating of the aircraft skin is a problem which, in a general case, lacks an exact analytic solution and in actual practice is solved in an approximate manner by means of rather simple methods of numerical integration. In this connection, he has considered a section of a smooth non-reinforced skin. The temperature T is assumed to be equal throughout the thickness of the skin and the heat transfer conditions are taken as slowly changing over the surface of the flying craft. Thus, the heat flows which propagate along the skin are disregarded.

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ACCESSION NR: AP4033034

In a general case, the differential equation which describes the change in the skin temperature during a time interval τ reduces to the following form

$$\dot{T} = (a/cph)(T^* - T) - (\epsilon\sigma/cph) T^4 \quad (1)$$

(complete nomenclature is given in the article). Corresponding to this differential equation is a system of computation for a skin ideally heat-insulated from its inner surface. It is this system which the author has employed for his accuracy analysis of the numerical computation. The author shows that in the numerical integration of Eqn. 1 for separate time intervals Δt_k , the equation is approximated by a finite difference ratio

$$(T_k - T_{k-1})/\Delta t_k = \eta \dot{T}_{k-1} + (1 - \eta) \dot{T}_k \quad (2)$$

where T_{k-1} and T_k , \dot{T}_{k-1} and \dot{T}_k are the skin temperatures and the values of the right-hand part of equation 1 at the beginning and end of the k -th time interval. It is demonstrated that this method, while it does permit a quantitative estimate of the errors, does not

Card 2/5

ACCESSION NR: AP4033034

disclose the laws behind the appearance of the errors and requires for its realization two preliminary computations of the skin temperature change with different time intervals. In order to disclose the laws governing the appearance and accumulation of errors with numerical computation, it is advisable first to consider the simplest idealized case of aerodynamic heating, when the heat transfer conditions are constant in time, disregarding the natural radiation of the skin. The problem in this case has an exact solution, written in the form:

$$T_n = T_{n-1} + T_{n-1} \Delta \tau_n \quad (3)$$

which is then used as a criterion for comparison with the numerical computation results, derived on the basis of formula:

$$T_n = T_{n-1} + \dot{T}_n \Delta \tau_n \quad (4)$$

Card 3/5

ACCESSION NR: AP4033034

this latter being a particular instance of ratio (2). The author also considered, in this connection, the errors which arise as a result of the rounding-off of the numerical values of the temperatures, furnishing, for this purpose, an equation describing the relative rounding-off error at the k -th interval, if at each interval this error is of identical sign and maximal. All the results obtained in this first section of the article pertain, as stated above, to the simplest case, in which the heat transfer conditions are constant. In the following section, the author assumes that the values T^* and α are variable in time, with their dependence on T linear within the limits of a separately taken k -th interval. The method considered in the paper for the graphic computation of the aerodynamic heating of the skin is noteworthy for its simplicity, sufficient accuracy, and demonstrability. Through its use it is possible to consider a large number of factors (radiation, dependence of heat transfer conditions on skin temperature and time, variability of the thermo-physical properties of the skin materials, etc.). The method proposed also lends itself to computation. Orig. art. has: 13 formulas and 3 figures.

Card 4/5

ACCESSION NR: AP4033034

ASSOCIATION: none

SUBMITTED: 05Jul63

SUB CODE: AC, MA

DATE ACQ: 11May64

NO REF SOV: 004

ENCL: 00

OTHER: 002

Card 5/5

ACC NR: AM6032637

Monograph

UR/

Zarubin, Vladimir Stepanovich

Temperature fields in aircraft structures; methods of calculation (Temperaturnyye polya v konstruktsii letatel'nykh apparatov; metody rascheta) Moscow, Izd-vo "Mashinostroyeniye", 1966. 215 p. illus., biblio. Errata slip inserted. 3000 copies printed.

TOPIC TAGS: heat transfer, aerospace structure, thin shell structure, shell temperature distribution

PURPOSE AND COVERAGE: This book is intended for engineers, as well as for graduate and undergraduate students of higher technical schools, who are familiar with the principles of heat transfer and whose specialty is related to the calculation of the thermal and structural strength of aircraft and of aircraft engines. Material presented includes: finding temperature fields in the thin-walled elements which are commonly found in aircraft and engines; operative formulas; reference tables and graphs; illustration of computation methods using arbitrary data; frontiers of experimental research in the temperature fields. There are 174 references, 82 of which are Soviet.

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UDC: 629.13:536.244.001.24

ACC NR: AM6032637

- Ch. 1. Heating and cooling a body with volumetrically identical temperatures -- 5
- Ch. 2. Temperature of a thin-walled shell-- 30
- Ch. 3. Thin-walled insulated structures -- 51
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- Ch. 6. Temperature analysis of tail units -- 145
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SUB CODE: 20,01,22/

SUBM DATE: 07Apr66/

ORIG REF: 082/

OTH REF: 092/

Card 2/2

ZARUBIN, V.S.

Effect of the technique of approximation of boundary conditions on
the stability of the numerical solution of heat conduction problems.
Inzh.-fiz. zhur. no.11:103-108 N '64.

(MIRA 18:2)

1. Vyssheye tekhnicheskoye uchilishche imeni N.E. Baumana, Moskva.

SOV/24-59-2-6/30

AUTHOR: Zarubin, V. S. (Moscow)

TITLE: On a Problem of Unsteady Heat Conductivity (Odna zadacha nestatsionarnoy teploprovodnosti)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i Avtomatika, 1959, Nr 2, pp 38-44 (USSR)

ABSTRACT: By an unsteady heat exchange in a liquid-cooled combustion engine, it is understood that the heat transfer takes place between the periods of starting, running and stopping of the engine, which is demonstrated by the variations of the temperature of its shell. Fig 1 illustrates an initial distribution of temperature in the cover at the moment of the start of the engine, where the index 1 denotes the products of combustion $()_1$, 2 - the cooling liquid $()_2$; one and two apostrophes correspond to the internal $()'$ and external $()''$ walls of the engine, while 0 and an asterisk indicate the initial $()_0$ and established $()_*$ parameters. The intermediate unsteady distribution

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SOV/24-59-2-6/30

On a Problem of Unsteady Heat Conductivity

of temperature during the start of the engine is shown in Fig 2. It is assumed that the external wall takes the temperature of the liquid during an established run of the engine, which is shown in Fig 3. The problem discussed in this work can be described as follows: 2 walls, internal and external of the engine shell receive heat through the cooling liquid, the temperature of which varies with time. It is assumed that an increase of temperature dt_2 of the liquid relatively to the surface dF of the cooling surface is proportional to the temperature of the liquid at that moment, as expressed by Eq (1), where q_2 - specific heat required

by the liquid for increasing its temperature. How the expression (1) was defined can be seen from Fig 4, which illustrates the variations of t_2 due to cooling of the engine at the start. In order to facilitate finding the solution of Eq (1), the expression (2) is introduced, where τ is time. During the starting-up of the engine, $t_{20} = t_2 \min$ and $t_{2*} = t_2 \max$, and for the stopping of the engine

$t_{20} = t_2 \max$ and $t_{2*} = t_2 \min$. The system of coordinates Card 2/5 is shown in Fig 5. The solution for the internal wall can be

SOV/24-59-2-6/30

On a Problem of Unsteady Heat Conductivity

derived as Eq (3), with the limiting conditions as Eq (4) and initial condition as Eq (5). Similarly for the external wall, the solution can be shown as Eq (6) with the limiting and initial conditions, Eqs (7) and (8) respectively. The reduced temperature of combustion products can be defined as Eq (7), where t_1 - actual temperature, q_r - radiant heat flow, α_1 , α_2 and α'' - coefficients of heat transfer from products of combustion to the wall. The formula (3) can be expressed as Eq (11) for the conditions (12) and (13) after the Laplace transformation (10) and Eqs (2) and (5) are substituted. The solution of Eq (11) can be shown as Eq (14), where A and B are obtained from Eq (15). The solution of the separate terms of the latter can be found when such a value of s is taken that Eq (15) is equalized to 0, i.e.

$$s_n = -\mu_n^2 a' / h'^2 \quad (\mu \text{ from Eq (16)}). \quad \text{Then}$$

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SOV/24-59-2-6/30

On a Problem of Unsteady Heat Conductivity

Eq (17) can be derived in order to determine $t'(x', \tau)$. Similarly, Eq (6) can be written as Eq (18), where ν_n is found from Eq (19). This equation belongs to basic formulae of the heat conductivity. The method of determination of its roots is illustrated in Fig 6, from which also the values of μ can be found (Eqs (20) and (21)). The parameter k can be defined from the equation of equilibrium (22) where m_c - weight of the components connecting the walls, c_c and $t_c(\tau)$ - their heat capacity and temperature respectively. The formula (22) can be expressed as Eq (23), when Eqs (1), (17) and (18) are substituted (c'' , γ'' - heat capacity and specific weight of the external wall, respectively). A rapid convergence with time of the sums in Eqs (17) and (18) allows the determination of the temperature distribution. The final series in the solution can be shown as Eqs (24) and (25), where m - number of terms of the sum, η' and η'' - predetermined accuracy of solution in degrees. The accuracy η and Eq (24) determine the interval:

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SOV/24-59-2-5/30

On a Problem of Unsteady Heat Conductivity

$$I = \int_{\zeta}^{\infty} \frac{e^{-z}}{z} z dz ,$$

where the value of ζ and τ_m are found from Eq (7).

Fig 8 illustrates an example of heat transfer at the moment of starting the engine, the data of which are given at the foot of p 44. There are 8 figures and 1 Soviet reference.

SUBMITTED: April 28, 1958.

Card 5/5

BOL'SHOV, V.G.; ZARUBIN, V.V.

Secondary electron emission of In and Pb in the solid and liquid states. Fiz. tver. tela 1 no.3:462-466 Mr '59.

(MIRA 12:5)

1. Leningradskiy fizikp-tekhnicheskiy institut AN SSSR.
(Indium) (Lead) (Electron emission)

PARILOV, V.A.; ZARUBIN, V.K.

New paste for polishing nonferrous metals. Stan.i instr. 33
no.7:41 J1 '62. (MIRA 15:7)

(Grinding and polishing)

ACC NR: AP6021481 (A) SOURCE CODE: UR/0413/66/000/011/0111/0111

INVENTOR: Shishkin, V. A.; Drokonov, Ye. M.; Avdeyev, V. D.; Zarubin, Ye. I.

ORG: None

TITLE: A reversing mechanism for internal combustion engines. Class 46, No. 182440
[announced by the Bryansk Machine Building Plant (Bryanskiy mashinostroitel'nyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 111

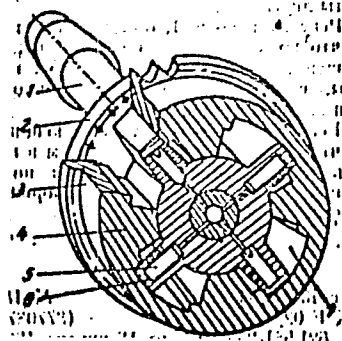
TOPIC TAGS: internal combustion engine, engine control system, engine crankshaft

ABSTRACT: This Author's Certificate introduces a reversing mechanism for internal combustion engines which contains a torsional hydraulic cylinder located in the drive unit between the crankshaft and the camshaft. The torsional cylinder is positively stopped at the extreme positions of the lobes by means of several hydraulic locks located within the cylinder itself.

UDC: 621.43-581-229.384

Card 1/2

ACC NR: AP6021481



1--housing; 2--sprocket; 3--lobes; 4--hub; 5--spring-loaded pistons; 6--cavities;
7--hydraulic cylinder cavities

SUB CODE: 13 21/ SUBM DATE: 17Jun63

Card 2/2

VOLKOV, V.N.; ZARUBINA, A.I.; RUDAVSKIY, I.Ye.

Economic evaluation of new hard alloy bits, based on the example
of drilling exploratory holes in the Kuznetsk Basin. Trudy
MGRI 39:161-165 '63. (MIRA 16:10)

GEL'RUD, Semuil Markovich; ZARUBINA, Alla Georgiyevna; FODBOLOTOV,
Vasilii Vasil'yevich; KUDRYASHOV, R., otv. red.; SHATROVA, T.,
red. izd-va; LEBEDEV, A., tekhn. red.

[Collection of problems on the state budget] Sbornik zadach po gosudarstvennomu biudzhetu. Moskva, Gosfinizdat, 1961. 94 p.
(MIRA 14:12)

(Budget)

ZHARIKOVA, G.G.; ZARUBINA, A.P.

Isolation of *Bacillus brevis* var. G.B. from a single cell.
Mikrobiologiya 33 no.6:1071-1073 N-D '64.

(MIRA 18:4)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni Lomonosova.

ZARUBINA, A.I.

Large fibroma of the retroperitoneal cellular tissue simulating
thrombophlebitic splenomegaly. Nov.khir.arkh. no.2:107 Mr-Ap'58
(MIRA 11:6)

1. Kafedra terapii II Kiyevskogo instituta usovershenstvovaniya
vrachey.

(ABDOMEN--TUMORS)

ZARUBINA, A.I., dotsent

Atypical forms of myocardial infarction. Vrach. delo no.2:56-59
F '62. (MIRA 15:3)

1. Kafedra terapii III (zav. - dotsent I.P. Lerner) Kiyevskogo
instituta usovershenstvovaniya vrachey.
(HEART...INFARCTION)

AUTHOR: Zarubina, G. SOV-107-58-9-12/38
TITLE: A Creative Quest (Tvorcheskiye iskaniya)
PERIODICAL: Radio, 1958, Nr 9, p 13 (USSR)
ABSTRACT: The career and training of Aleksandr Vystavkin is described. He is now a research student in the Institut radiotekhniki i elektroniki Akademii nauk SSSR (The Institute of Radio Engineering and Electronics of the Academy of Sciences, USSR,) and working in the field of the physics of electronic instruments. Recently he worked out and constructed a model to study the trajectories of fast electrons in intricate magnetic fields. His chief is N.D. Devyatkov, Corresponding Member of the Academy of Sciences, USSR, and head of a laboratory at the Institute. There is 1 photo.

1. Scientific personnel--USSR
2. Electronic equipment--Design
3. Instruments--Design

Card 1/1

ZARUBINA, I. L., KOROLEV, N. V., AGROSKIN, L. S., DAVYDOVA, M. I.

"Microscope-Cytophotometers for Cytochemical Analysis. (Report Not Presented.)"

report submitted for the First Conference on the problems of Cyto and
Histochemistry, Moscow, 19-21 Dec 1960.

Leningrad

BAKHAREV, F.M.; DAVYDOVA, M.I.; ZARUBINA, I.L.; POPOV, A.I.; SKVORTSOV, G.
Ye.; SMIRNOV, V.A.

Microspectrophotometer for both the ultraviolet and the visible
spectrum regions (MUF-5). TSitologiya 6 no.1:114-120 Ja-F '64.
(MIRA 17:9)

1. Leningradskoye ob"yedineniye optiko-mekhanicheskikh predpriyatiy.

STRUMINSKIY, B.V.; ZARUBINA, I.S. [translator]

Determination of the root-mean-square radius of transition $He^3 \rightarrow H^3$.
Dubna, Ob"edinenyy institut iadernykh issledovaniy, 1962. 4 p.
(No subject heading)

KLEPIKOV, N.P.; SMORODINSKIY, Ya.A.; ZARUBINA, I.S. [translator];
SARANTSEVA, V.R., tekhn. red.

Inversion of helicity in nuclear reactions. Dubna, Ob"edinen-
nyy in-t iadernykh issledovaniy, 1962. 8 p.
(No subject heading)

ARBUZOV, B.A.; LOGUNOV, A.A.; TAVKHELIDZE, A.N.; FAUSTOV, R.N.;
FILIPOV, A.T.; ZARUBINA, I.S. [translator]; SARANTSEVA, V.R.,
tekh.n.réd.

Regge poles and perturbation theory. Dubna, Ob"edinennyi
in-t iadernykh issledovani, 1962. 4 p.
(No subject heading)

PYTCOV, N.I.; SOLOVYEV, V.G.; ZAKHAROVA, I...[translator]

Energies of the excited states of some even strongly deformed nuclei in the range $164 \leq A < 190$. Dubna; Ob"edinennyyi in-t iadernykh issledovaniy. 1964. 22 p.

BILEN'KIY, S.M.; RYNDIN, R.M.; ZARUBINA, I.S. [translator];
SARANTSEVA, V.R., tekhn. red.

On the production of "Soft" π mesons in pion-nucleon and
nucleon-nucleon collisions. Dubna, Ob"edinennyi in-
tadernykh issledovani, 1962. 5 p.
(No subject heading)

SOLOV'YEV, V.G.; ZARUBINA, I.S.[translator]

Properties of the ground-and excited states of strongly deformed nuclei. Dubna, Ob"edinennyi in-t iadernyykh issledovaniy, 1962. 17 p.

(No subject heading)

VALUYEV, B.N. ZARUBINA, I.S. [translator]; SARANTSEVA, V.R., tekhn.
red.

Angular correlations of leptons in the K-meson decays.
Dubna, Ob"edinennyi in-t soderzhykh issledovani, 1962.
9 p.

(No subject heading)

ZARUBINA, L. V., Cand Biol Sci -- (diss) "Biological characteristics of strains of pathogenic leptospirosis cultured in the Kostovskaya oblast'." Moscow, 1960. 21 pp; (First Moscow Order of Lenin Medical Inst im I. M. Sechenov); 500 copies; price not given; (KL, 52-60, 119)

ZARUBINA, L.V.

Utilization of biological research methods in foci of leptospirosis.
Zhur.mikrobiol.epid. i immun. 27 no.9:65-67 S '56. (MLRA 9:10)

1. Iz Rostovskogo-na-Donu instituta epidemiologii, mikrobiologii i
gigiyeny.

(LEPTOSPIROSIS, transmission,
by water, detection of infected water with laboratory
animals (Rus))

(WATER,
transm. of leptospirosis, detection of infected water with
laboratory animals (Rus))

ZARUBINA, L. V., BL'GOVESHCHENSKAYA, N. M.

"Certain data to the study of leptospirosis in respect to hog-breeding farms."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

BLAGOVESHCHENSKAYA, N.M.; KONDRATENKO, V.F.; ZARUBINA, L.V.

Natural nidus of *Leptospira pomona* in the Kabardino-Balkar A.S.S.R.
Zool. zhur. 42 no.8:1147-1154 '63. (MIRA 16:9)

1. Rostov-on-Don Research Institute of Epidemiology, Microbiology
and Hygiene.

(Kabardino-Balkar A.S.S.R.—Leptospirosis)

BLAGOVESHCHENSKAYA, N.M.; KONDRATENKO, V.F.; ZARUBINA, L.V.

Natural focus of leptospirosis of the serological group habdomadis
in Rostov Province. Zool. zhur. 42 no.10:1561-1566 '63.
(MIRA 16:12)

1. Rostov-on-Don Research Institute of Epidemiology, Microbiology
and Hygiene.

ZARUBINA, I. V.

"The Use of Biological Methods of Investigation in Foci of Leptospirosis," by L. V. Zarubina, Rostov-na-Donu Institute of Epidemiology, Microbiology, and Hygiene, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 27, No 9, Sep 56, p 65-67

This article concerns investigations of cases of nonicteric leptospirosis in humans observed during a 1954 study of leptospirosis foci on a swine sovkhoz. It was suggested that the disease pathogens had been transmitted by the urine of infected swine, wallowing in a stream above a location where crabs were caught. To substantiate this theory, the water of the stream was examined for pathogenic *Leptospira* by a method described in detail in the text. Scratches were inflicted on the extremities of guinea pigs, which were then placed in samples of the stream water under conditions favorable to the penetration of *Leptospira*.

The biological method employed led to the following results and conclusions:

1. A culture of *Leptospira* was obtained from three guinea pigs during a period of increased temperature through the sowing of blood from the heart on a "Tersk" medium.

2. The role of the water factor in the epidemiology of leptospirosis was substantiated, and the connection between the disease in humans and the water contaminated with urine from swine infected with leptospirosis and swine which had had the disease was established.

3. By the method of immersing scratched extremities in urine from sows suspected of having leptospirosis, two strains of *Leptospira* were obtained after sowing blood and urine from one of the guinea pigs which had become ill.

4. This method also confirmed the fact that virulent *Leptospira* were eliminated with urine of young pigs experimentally infected with leptospirosis.

5. Experimental leptospirosis with pronounced jaundice was produced in two of eight susliks known to be susceptible to nonicteric leptospirosis by infecting the susliks with blood and urine of human leptospirosis patients. A culture of *Leptospira* was isolated by sowing blood from one of the susliks which had developed the disease as a result of infection with the blood of a human patient.

6. The biological test proved to be the most effective method for diagnosing leptospirosis in humans and animals and for detecting the source and method of transmission in nonicteric leptospirosis foci.

Sum 1258

ZARUBINA, L.V.

BLAGOVESHCHINSKAYA, N.M.; ZARUBINA, L.V.; MOROZOVA, H.F.

Clinical aspects of leptospirosis in man. Sov.med. 21 no.3:33-37
Mr '57. (MIRA 10:7)

1. Iz Rostovskogo-na-Donu instituta epidemiologii, mikrobiologii i
gigiyeny (dir. Ye.S.Soboleva)
(LEPTOSPIROSIS
clinical aspects)

BLAGOVESHCHENSKAYA, N.M.; ZARUBINA, L.V.; KONDRATENKO, V.F.; MAKAROV, S.V.;
MESHCHANNIKOVA, E.F.

Natural focus of *Leptospira hebdomadis* infections in Rostov Province.
Zool. zhur. 40 no.10:1457-1460 0 '61. (MIRA 14:9)

1. Rostov-on-Don Institute of Epidemiology, Microbiology and
Hygiene.

(ROSTOV PROVINCE...LEPTOSPIROSIS)
(RODENTS AS CARRIERS OF DISEASE)

BAKHSHIYAN, TS.A.; ZARUBINA, L.V.

Determining optimum temperature of flue gases of tubular
furnaces, air and water heaters. Khim. i tekhn. topl. i
masel 4 no.3:36-38 Mr '59. (MIRA 12:4)

1. Giproneftemash.
(Heat engineering)