

ARSHINTSEV, L.I., inzh.; LUSKIN, A.S., inzh.

Practices in operating the PB-2 and PB-3 tracklayers.
Transp. stroi. 16 no.1:25-27 Ja '66.

(MIRA 19:1)

65931

B/020/60/134/003/021/033IX
C 111/ C 333

16.3500

AUTHORS: Arshon, I. S., Yevgrafov, M. A.

TITLE: Evaluation of the Growth of a Solution to a System Defined by Heterogeneous Conditions at the Boundary and Phragmen-Lindelöf's Theorems

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 3, pp. 507-510

TEXT: Let the system

(1) $\frac{\partial u}{\partial y} = A \frac{\partial u}{\partial x} + Pu$, $B_1 u(x, 0) + B_2 u(x, 1) = f(x)$,
be given, where A , P , B_1 , B_2 are matrices of order n and u and f are vectors. 1.) The matrix A is assumed to possess no purely real eigenvalues; 2.) let E^+ and E^- be projection operators onto the sum of the invariant subspaces of A which correspond to the eigen-values a_k for which $\text{Im } a_k > 0$ or $\text{Im } a_k < 0$; here let

(2) $\det (B_1 E^+ + B_2 E^-) \neq 0$, $\det (B_1 E^- + B_2 E^+) \neq 0$;

3.) let

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Evaluation of the Growth of a Solution to a System Defined by
Heterogeneous Conditions at the Boundary and Phragmen-Lindelöf's
Theorems

$$(4) \|f(x) - f(s)\| < |x - s|^\alpha (\varphi(x) + \varphi(s)), \quad \alpha > 0$$

where

$$\varphi(x) > 0, \quad \lim_{x \rightarrow +\infty} \frac{\varphi'(x)}{\varphi(x)} = 0.$$

Theorem 1: If $\det(B_1 + B_2 e^{P+2A})$ possesses no purely imaginary
zeros, then there exists a solution $u_0(x, y)$ of

$$(1) \text{ for which } u_0(x, y) = O(\varphi(x) + \|f(x)\|)$$

Theorem 2: If p is the greatest multiplicity of the purely imaginary
zeros of $\det(B_1 + B_2 e^{P+2A})$

then there exists a solution of

$$(1) \text{ for which } u_0(x, y) = O(\varphi(x) + \|f(x)\| + x^{p-1} \int_0^x \|f(t)\| dt)$$

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Evaluation of the Growth of a Solution to a System Defined by Heterogeneous Conditions at the Boundary and Phragmen-Lindelöf's Theorems

Theorem 3: If $\det (B_1 + B_2 e^{P+zA})$ possesses a simple zero $z = i \lambda_0$, then (1) has a solution

$$u_0(x, y) = e^{Py} + i \lambda_0(x + Ay) G_0 \int_0^x e^{-i \lambda_0 t} f(t) dt + O(\psi(x) + \|f(x)\|)$$

where G_0 is a certain constant matrix of rank 1.

By connecting the theorems 1-3 with the results of (1) the author obtains Phragmen-Lindelöf theorems for (1), e. g.

Theorem 4: If $\det (B_1 + B_2 e^{P+zA})$ has no zeros in $0 \leq \operatorname{Re} z < \beta$, and if $u(x, y)$ is a solution of (1) satisfying the condition

$$u(x, y) = O(e^{\beta x}) ; x \rightarrow \infty$$

then it is $u(x, y) = O(\psi(x) + \|f(x)\|)$.

The proof of the theorems 1-3 is based on the estimation of

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Evaluation of the Growth of a Solution to a System Defined by
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Theorems

$M(z,y)$ and $K(x,y)$, where $M(z,y) = e^{(P+ZA)y} (B_1 + B_2 e^{P+ZA})^{-1}$,
 $K(x,y)$ is a certain curve integral of $M(z,y) e^{zx}$, as well as on
the consideration of the residuum of $M(z,y) e^{zx}$ in the pole $z = z_n$.
There is 1 Soviet reference.

PRESENTED: May 3, 1960, by M. V. Keldysh, Academician
SUBMITTED: April 28, 1960

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AUTHOR: Arshon, I. S.

TITLE: Theorem of Phragmen-Lindelof type for a linear elliptic system

PERIODICAL: Akademiya nauk SSSR Doklady, v. 159, no. 2, 1961, 271-274

TEXT: The Phragmen-Lindelof principle for a semistrip is generalized to the solution of a system

$$\frac{\partial u}{\partial y} = A \frac{\partial u}{\partial x} + P u, \quad (1)$$

where A, P are constant matrices of n-th order and $u(x, y)$ an n-dimensional vector.

The following theorem is proved:

Theorem: Let $u(x, y)$ be a solution of the equation (*) in the semistrip $x > 0, 0 < y < \infty$, which is continuous up to the boundary together with its partial derivatives. If

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Theorem of Phragmen-Lindelof type

- 1.) the equation (1) is elliptic and all eigen values of the matrix A have imaginary parts different from zero;
- 2.) a function $\psi(x) > 0$ exists which satisfies the condition

$$\lim_{x \rightarrow \infty} \frac{\psi(x)}{\varphi(x)} = 0 \quad (2)$$

and has the property that for $y = 0$ and $y = \infty$ it holds

$$\|u(x, y) - u(s, y)\| \leq \|x - s\| \exp \left(\int_s^x \psi(t) dt \right) \exp \left(\int_s^x \varphi(t) dt \right); \|u(x, y)\| \leq \psi(x) \exp \left(\int_0^x \varphi(t) dt \right) \quad (3)$$

- 3.) for every fixed y $0 \leq y < \infty$ it holds

$$u(x, y) = O \left(\exp \exp (\varepsilon - \delta) x \right), \quad x \rightarrow \infty, \quad \varepsilon > 0 \text{ arbitrary.} \quad (4)$$

where $\delta = \gamma / \max \| \operatorname{Im} a_k \|$, and a_k are the eigen values of the matrix A

then

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Theorem of Phragmen-Lindelöf type

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$$u(x, y) = O(\psi(x)), \quad x \rightarrow \infty$$

(5)

holds uniformly in all y .

Ye. M. Landis, I. A. Chagis and G. Ye. Shilov are mentioned. The author thanks M. A. Yevgrafov for subject and idea of the proof. There are 7 Soviet-bloc references and 1 non-Soviet-bloc reference. The reference to English-language publication reads as follows: P. D. Lax, Sborn. per. Matematika, 1. 4. '07('959).

PRESENTED: January 20, 1961, by M. V. Keldysh, Academician

SUBMITTED: January 17, 1961

Card 3/3

AKSHON, I.S.; LEVCHENOV, M.A.

Instance of a function which is bounded outside a circular cylinder and is harmonic everywhere in space. Dokl. AN SSSR 143 no.1:9-10 Mr '62. (MIRA 15:2)

1. Predstavleno akademikom M.V.Keldyshem.
(Harmonic functions)

ARSHON, I. S.; YEVGRAPOV, M. A.

On the growth of harmonic functions of three variables. Dokl.
AN SSSR 147 no.4:755-757 D '62. (MIRA 16:1)

1. Predstavleno akademikom M. V. Keldyshem.

(Harmonic functions)

ARSHON, I.S.; YEVGRAFOV, M.A.

Growth of functions which are harmonic within a cylinder and
bounded on its surface together with their normal derivative.
Dokl. AN SSSR 142 no.4:762-765 P '62. (MIRA 15:2)

1. Predstavleno akademikom M.V. Keldyshem.
(Harmonic functions)

ARSHON, I.S. (Moskva)

A theorem of the type of Phragmén-Lindelöf's theorem for a
linear elliptic system with coefficients depending on a single
variable. Mat. sbor. 61 no.3:362-376 J1 '63. (MIRA 16:7)

(Differential equations)

ARSHON, I.S.; IGLITSKIY, M.A.

Decrease of harmonic functions in a cylinder. Dokl. AN SSSR
152 no.4:775-778 O '63. (MIRA 16:11)

1. Predstavleno akademikom M.V. Keldyshem.

ARSHON, I.S.; PAK, M.A. (Moskva)

Uniqueness theorem for harmonic functions in a half-space.
Mat. sbor. 68 no.1:148-151 S '65. (MIRA 18:9)

ARSHON, I.S.

Decrease of harmonic functions of three variables. Izv. AN SSSR.
Ser. mat. 29 no. 6:1283-1294 '65 (MIRA 19:1)

1. Submitted November 28, 1964.

"Aerodynamics"

Moscow 1952- 480pp

AUTHORS: Shvarts, A. I. and Arshteyn, M. R. SOV/138 -58-4-8/13

TITLE: The Automatic Operation of Conveyor Presses:
(Avtomatizatsiya upravleniya remnevymi pressami).

PERIODICAL Kauchuk i Rezina, 1958, Nr.4. pp. 29-31. (USSR)

ABSTRACT: The firm "Kauchuk" and NIIEP developed a method for the automatic operation of hydraulic presses which are used for vulcanising conveyor belts. This method necessitates the automatic working of the presses during the vulcanisation cycle, and also the controlling of the basic technological conditions: the temperature of the plates, and the pressure and time of vulcanisation. Fig.1 shows the setting up of the plant and the time of vulcanisation required (vulcanisation cycle = 7 - 20 minutes). The operation of lifting and lowering the plates is carried out with the aid of a pneumatic distributor (Fig.2). Constructional details of the plant are described in detail. The clamps and tension members are operated with solenoid-adjusted valves constructed by the Research Institute for Plastic Materials (NIIPM) (Nauchno-issledovatel'skiy institut plastmass (NIIPM)) (Fig.3). These valves allow the liquid to flow in one direction only, and therefore two valves are used (one for the

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The Automatic Operation of Conveyor Presses. SOW/138-58-4-8/13

inlet of the liquid, and the second for the discharge of the liquid), and four valves when tensioning is carried out when double action cylinders are used. Devices for controlling and regulating the basic conditions of vulcanisation are included in the construction of the plant. A pressure regulator O4-MG-610 is used for maintaining the temperature in the plates of the press, and manometer MB-610 for controlling the pressure of the liquid. The efficiency of the vulcanisation process is increased by 2 - 3%. There are 3 Figures.

ASSOCIATION: Moscow Plant "Kauchuk" (Moskovskiy zavod "Kauchuk".)

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1. Hydraulic presses--Operation
Control systems

2. Hydraulic presses--

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D039/D112

AUTHORS: Borisevich, Ye.S.; Zhilevich, I.I.; Aronov, L.Ye., Arshvila, S.V.;
Zabelin, M.V.

TITLE: The SEO-I seismic electrographic oscillograph

SOURCE: Akademiya nauk SSSR. Institut fiziki Zemli. Trudy, no.19 (196).
Moscow, 1961, seysmicheskiye pribory, 44-51

TEXT: The authors describe the SEO-I (SEO-I) seismic electrographic oscillograph for automatically recording seismic processes. It does not use the helical-line recording method with its intersecting recording lines, but produces a clear recording of the seismic process and the immediately preceding period (by means of a memory) only. The recording is suitable for both visual analysis and automatic mechanical processing, the principles of which are now being developed. The device can be used at either permanent or mobile seismic stations. Its mode of operation is as follows: Light from a luminaire is reflected by a mirror on to the windows of three galvanometers, is reflected back by a small mirror attached to the measuring system of the galvanometer on to the first mirror, and reflected

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The SEO-I seismic

by other mirrors on to an endless moving band of photosemiconductive paper. The paper receives an electrostatic charge from a high-voltage generator, which makes it light-sensitive. The light rays from the galvanometers leave invisible lines free of charge on the paper. Under normal conditions, the electrostatic charge and the lines are erased when they pass an illuminated peep-hole; if seismic vibrations cause certain deviations of the light rays, an indicating photorelay actuates a developing mechanism which makes the recording visible. After a complete revolution, the device stops and the paper tape must be replaced. Other technical data are as follows: The oscillograph gives clear recordings of seismic processes with a frequency of up to 5 cycles per second at an amplitude of 15 nm. Three Г5 -III-50 (GB-III-BS) shuntable galvanometers with individual magnetic systems are used. Recording is made on an endless paper tape 120 mm wide and 1.2 m long. The tape is transported by a Г-31 (G-31) synchronous hysteresis motor (n=3000 rpm, N=5 w); the tape speed is automatically reduced after the start of recording, thus extending the recording period; Length of the optical indicator is 300 mm; Time marks are applied by periodically switching off the galvanometer's luminaire by a contact chronometer; The device is fed from a 127 or 220 v a.c. network;

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The SEO-I seismic

and its current consumption does not exceed 1 a; Its dimensions are 255 x 240 x 660 mm, and its weight 29 kgf. Its optical, kinetic and electrical systems are described and illustrated. It was designed by Ye.S. Borisovich and I.I. Zhilevich (Author's Certificate no. 120 94); besides the authors of this article, designers B.N. Pevner and M.K. Dubrovina and team-leader-mechanic F.F. Lenkov took part in its construction. There are 5 figures and 7 Soviet-bloc references.

4

Card 3/3

ARSHTEYN, M.R.; GEZIN, M.S.

Experience in automatic proportioning of liquid and powder
materials. Zhur.VKHO 6 no.5:556-558 '61. (MIRA 14:10)
(Automatic control)

BORISEVICH, Ye.S.; ZHILEVICH, I.I.; ARONOV, L.Ye.; ARSHVILA, S.V.;
ZABELIN, M.V.; Primalni uchastnye: PEVZNER, B.M., konstruktor;
DUBROVINA, M.K., konstruktor; ZENKOV, F.F., brigadir-mekhanik

The SEO-1 seismic electrographic oscillograph. Trudy Inst. fiz.
Zem. no.19:44-51 '61. (MIRA 15:3)
(Seismometers)

SLAVKOVIC, Jovan; KOVACEVIC, Miroslav; KALANOVIC-KANORGA, Radmila;
ARSIKIC-JOVANOVIC, Mirojka

Pathogenesis and treatment of chronic cor pulmonale. Srpski
arh. celok. lek. 83 no.5-6:565-582 May-June 55.

1. I Interna klinika Medicinskog fakulteta u Beogradu.
Upravnik: Branišlav Stanojević.
(PULMONARY HEART DISEASE,
chronic, pathogen. & ther. (Ser))

"Contributions to the Study of Attacks of Isodermium linariae", p. 376,
(REVISTA PADURILOR, Vol. 6, No. 8, August 1954, Bucharest, Rumania)

SC: Monthly List of East European Acquisitions (FEAL), LC, Vol. 4, No. 3,
March 1955, Uncl.

KARABESWIC, B.: ARSIC, B., PAGON, S.

Microflora in restaurants as the index of their hygienic state.
Higijena, Beogr. 6 no.3-4:273-286 '54.

1. Medical faculty, University, Skopje, Institute of epidemiology
Military medical academy, Belgrade
(RESTAURANTS,
bacteriol. investigation)

ARSIC, Bogoljub, major, dr.; DLESK, Vladimir, porucnik

Explosive epidemic of dysentery caused by sulfonamide-resistant strain of *Shigella flexneri* II. Voj. san. pregl., Beogr. 11 no. 9-10:355-362 Sept-Oct 54.

1. Higijensko-epidemioloski odred Sarajevske vojne oblasti.
(DYSENTERY, BACILLARY, bacteriol.
Shigella paradysenteriae, sulfonamide-resistant strain)

VUKSIC, Lj.; ARBIC, B.; RIL, D.; MORILJ, M.; GUBENC, M.; MILOVANOVIC, M.;
STOJKOVIC, Lj.; MIRKOVIC, M.; MILIVOJEVIC, M.

Isolation of *Coxiella burnetti* from stable dust. Higijena,
Beogr. 8 no.4:240-245 1956.

1. Katedra za Higijenu i epidemiologiju VMA. Virusološko
oddeljenje Higijenskog instituta NRŠ, Beograd.

(COXIELLA BURNETTI,

isolation from stable dust (Ser))

(DUST,

isolation of *Coxiella burnetti* from stable dust (Ser))

GANZ, Petar; ARSIC, Bogoljub; MILINKOVIC, Gruja; GINT, M.; JOVANOVIC, S.;
BOSKOVIC, B., Vojnosanitetski zavod,

Control and evaluation of culture media. Voj. san. pregl., Beogr.
16 no.3:212-216 Mar 59.

1. Katedra farmaceutskih nauka Vojna bolnica Bakteriološka laboratorija.

(CULTURE MEDIA
control & evaluation (Ser))

ARSIC, Bogoljub, sanitetski potpukovnik d-r; BIRTASEVIC, Bosidar, sanitetski
kapetan I kl. d-r

Epidemiology of rheumatic fever. Voj.san.pregl., Beogr. 17 no.3:
270-281 Mr '60.
(RHEUMATIC FEVER epidemiol.)

ARSIC, Bogolub, sanitetski potpukovnik dr; RINTASEVIC, Bozidar, san. kapetan
I kl. dr

Rheumatic fever in certain military groups. Epidemiological analysis.
Voj.san.pretl., Beogr. 17 no.11:1115-1123 N '60.

1. Higijensko-epidemiološki orđed u Sarajevu
(RHEUMATIC FEVER epidemiol)

- [illegible]

1. Objective and Purpose of the Study
 2. Scope of the Study
 3. Methodology
 4. Results
 5. Conclusions
 6. Recommendations
 7. Bibliography
 8. Appendix
 9. Glossary
 10. Index

ARSIC, Bogoljub, sanitetski potpukovnik, dr.; BIRTASEVIC, Bozidar,
sanitetski major, dr.; PETKOVIC, Branko, sanitetski potpukovnik,
dr.; BIOGINA, Josip, sanitetski potpukovnik, dr.; PAUNOVIC,
Sinisa, sanitetski kapetan, dr.

Experimental studies on the prevention of rheumatic fever
in the garrison N. 1. Results of rheumatic fever prevention.
Vojnosanit. pregl. 19 no.3:189-197 Mr '62.

1. Vojnomedicinska akademija u Beogradu, Epidemioloski institut.
(RHEUMATIC FEVER)

5

APESIC, Bogoljub, sanitetski potpukovnik, dr.; BIRTASEVIC, Bosidar, sanitetski major, dr.; FORNAZARIO, Maksimilijan, predavao, dr.; HLACA, Danica, predavao, dipl. biolog; TEKZIN, Aleksandar, profesor, dr.

Asian influenza in units and training centers of the military region of Sarajevo in 1957. Vojnosanit. pregl. 19 no.7/8: 521-529 J1-Ag '62.

1. Virusoloski institut medicinski fakultet, Universitet u Sarajevu. Higijensko-epidemioloski odred.
(INFLUENZA ASIAN) (MILITARY MEDICINE)

S

BIRTASEVIC, Bozidar, sanitetski major dr; PAUNOVIC, Simina, sanitetski kapetan
dr; ARSIC, Bogoljub, sanitetski potpukovnik dr; PETKOVIC, Branko,
sanitetski potpukovnik dr; ZIROJEVIC, Josip, medicinski laborant

Experimental study in rheumatic fever prevention in garrisons. II.
Clinico-epidemiological aspects of pharyngitis. Vojnosanit. pregl.
19 no.9:591-595 S '62.

(RHEUMATIC FEVER)

(MILITARY PERSONNEL)

(PHARYNGITIS)

BIRTASEVIC, Bozidar, sanitetski major, dr.; ARSIC, Hozelj, b.
sanitetski potpukovnik, dr.

Acute respiratory diseases in some training centers and units
during the period of 1957-1958. Vojnosanit. pregl. 19 no. 7/8:
537-541 J1-Ag '62.

(RESPIRATORY DISEASES)

S

PETKOVIC, Branko, sanitetski potpukovnik, dr.; ZIROJEVIC, Josip, visii medicinski laborant; BOGDANOV, Lea, sanitetski potpukovnik, doc., dr.; ARSIC, Bogoljub, sanitetski potpukovnik, dr.; BIRTASEVIC, Bozidar, sanitetski major, dr.; PAUNOVIC, Sinisa, sanitetski major, dr.

Experimental work on the prevention of rheumatic fever in garrison N. III. Dynamics of streptococcal infections. Vojnosanit. pregl. 20 no.7:407-414 JI '63.

1. Higijenski institut medicinskog centra, Split, Vojnomedicinska akademija u Beogradu. Higijenski savod, Higijensko-epidemioloski odred, Sarajevo.

(RHEUMATIC FEVER) (STATISTICS)
(PREVENTIVE MEDICINE)

S

ARSIC, Bogoljub, dr. sanitetski potpukovnik; BIRTASEVIC, Besidar, dr.
sanitetski major; FORNAZARIC, Maksimilijan, dr. predavnik;
ELACA, Danica; predavac, depl. biolog; TERZIN, Aleksandar
dr. profesor.

Asian influenza in units and training centers of the
military region of Sarajevo in 1947. Vojnosanit pregl
19 no. 7/8 JI-Ag '62.

1. Virusološki Institut Medicinsk fakultet, Univerzitet
u Sarajevu.
(INFLUENZA ASIAN) (MILITARY MEDICINE)

ARSIC, Bogoljub, sanitetski pukovnik, dr.; ĐORĐEVIĆ, Dušan, sanitetski major, dr.; KARANFILOV, Sotir, sanitetski pukovnik, dr.; MILADINOVIC, Toma, sanitetski kapetan, dr.; SOKOLOVSKI, Bora, sanitetski kapetan I klase, dr.; ZISOVSKI, Angel, sanitetski potpukovnik, dr.; PAVLOVIC, Miodrag, tehnicki saradnik, sanitetski kapetan I klase.

Treatment and prevention of acute bacillary dysentery with a single dose of oxytetracycline. Vojnosanit. pregl. 21 no.4: 223-228 Ap '64.

1. Vojnomedicinska akademija u Beogradu; Epidemioloski institut HZ; Higijensko-epidemioloski odred u Skoplju; Armijska bolnica u Skoplju, Zvezno odeljenje.

ARSIC, Bogoljub, sanitetski pukovnik. ~~XXXX~~ VILADINOVIC, Tomislav,
sanitetski kapetan, dr.; ZEC. ~~XXXX~~ sanitetski kapetan I
klase.

An epidemic of infectious hepatitis in the garrison of P-isren.
Vojnosanit. pregl. 21 no.5:326-327 My '64

1. Higijenski zavod, Epidemioloski institut, Vojnomedicinska
akademija u Beogradu i Higijensko-epidemioloski order, Skoplje.

Dr. G. G. Džur, sanitetski major, dr. J. MILACINOVIC, Pomislav, sanitetski
kapetan, dr. J. ARALIC, Bog. Ljub, sanitetski pukovnik, dr.

Preventive and anti-epidemic measures in the Skoplje garrison
after the earthquake disaster. Vojnosanit. pregl. 22, 1978
492-495, 1-49, 1978

ARSIC, Bogoljub, sanitetski pukovnik docent dr.; MEL, David, sanitetski pukovnik dr.; RADOVANOVIC, Miroslav, sanitetski kapetan dr.; NIKOLIC, Bozidar, sanitetski potpukovnik dr.; ZISOVSKI, Angel, sanitetski potpukovnik dr.; SOKOLOVSKI, Borivoje, sanitetski kapetan I klase dr.; DORDEVIC, Dusan, sanitetski major dr.; STANKOVIC, Nikola, visi zdravstveni tehnicar; MANOJLOVIC, Borislav, sanitetski kapetan I klase; MIJUSKOVIC, Punisa, sanitetski kapetan I klase dr.

Treatment of dysentery with various doses of terramycin.
Vojnosanit. pregl. 22 no.6:388-393 Je '65.

1. Vojnomedicinska akademija u Beogradu, Higijenski zavod, Epidemioloski institut; Higijensko-epidemioloski odred Skoplje; Armijska bolnica u Skoplju, Zarazno odeljenje; Vojnomedicinska akademija u Beogradu, Klinika za zarazne bolesti.

ARSIC, Bogoljub, sanitetski pukovnik doc. dr.; ZISOVSKI, Angel, sanitetski potpukovnik dr.; MIJUSKOVIC, Punisa, sanitetski kapetan I klase dr.; RADOVANOVIC, Miroslav, sanitetski kapetan dr.; NIKOLIC, Bozidar, sanitetski potpukovnik dr.; SOKOLOVSKI, Borivoje, sanitetski kapetan I klase dr.; DORDEVIC, Dusan, sanitetski major dr.; MEL, David, sanitetski pukovnik dr.; JOKOVIC, Bozidar, sanitetski kapetan dr.; MILUTINOVIC, Milan, kapetan dr.

Clinical picture of acute bacillary dysentery in soldiers of the Yugoslav National Army. Vojnosanit. pregl. 22 no.6:394-397 Je '65.

1. Zarazno odeljenje, Higijensko-epidemioloski odred u Skoplju, Vojnomedicinska akademija u Beogradu, Klinika za zarazne bolesti.

ARBIT, Bogoljub, doc. dr.

The importance and application of epidemiological data on viral hepatitis. Med. glas. 10 no. 8/9: 227-231 Aug-Sept '65.

1. Vojnogigijenski savod VMA u Beogradu (Nacelnik: prof. dr. M. Morelj).

ARSIC, Bogoljub, sanitetski pukovnik docent dr.; BURDEN, Josip, sanitetski potpukovnik dr.; CIRIC, Aleksandar, sanitetski kapetan dr.; MARICIC, Franja, sanitetski potpukovnik dr.; PACOR, Stojan, sanitetski pukovnik dr.; POPOVIC, Radoslava, sanitetski potpukovnik dr.; SOKOLOVSKI, Borivoje, sanitetski kapetan I klase dr.

Shigella in the Yugoslav National Army during 1950-1962.
Vojnosanit. pregl. 22 no.6:398-405 Je '65.

1. Vojnomedicinska akademija u Beogradu, Epidemioloski institut HZ,
Higijensko-epidemioloski odredi.

Vukobrat, Djubokir, sanitetski pukovnik, dr.; Arsić, Bogoljub,
sanitetski pukovnik, general-major; Marić, general-major
sanitetske službe profesor dr.

Development of the military epidemiologic doctrine on dysentery
in the Yugoslav National Army. Vojnosanit. pregl. 22 no.6:365-
370 Je '65.

1. Vojnomedicinska akademija u Beogradu, Higijenski savod,
Epidemioloski institut.

L 38757-66

ACC NR: AP6029587

SOURCE CODE: YU/0015/65/000/08-/0227/0232

AUTHOR: Arsic, Bogoljub (Docent; Doctor)

ORG: Department of Military Hygiene, VMA/headed by Professor, Doctor M. Morelj,
Belgrade (Vojnohigijenski savod VMA)

TITLE: Importance of knowing the epidemiology of viral hepatitis and method of
using this knowledge

SOURCE: Medicinski glasnik, no. 8-9, 1965, 227-232

TOPIC TAGS: epidemiology, virus disease, hepatitis, preventive medicine

ABSTRACT: Data on infectious and on serum hepatitis: epidemiologic experiences
in Yugoslavia 1956-1964 by individual republics, by sex, age, occupation, origin,
of patients; morbidity, various other epidemiologic and preventive possibilities.
[JPRS: 36,599]

SUB CODE: 06 / SUHM DATE: none / ORIG REF: 002 / SOV REF: 001
OTH REF: 004

Cord 1/1

YUGOSLAVIA / Weeds and Weed Control.

N

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 1943

Author : Arsic, Miloslav; Vojvodic, Djordje;
Janjaticovic, Vera

Inst : Not given

Title : Extermination of Broad-Leaved Weeds in Corn
by Herbicides of the Hormone Type Applied
Before the Appearance of Young Growth

Orig Pub : Archiv poljopr. nauke, 1957, 10, No 29, 91-96

Abstract : The application of 2,4-D and MCPA to corn
eight days after sowing can keep the plot
clean of weeds and eliminate mechanical work-
ing for a month. The treated corn plants have
somewhat augmented organs, and increased
lateral and adventitious roots. The cells

Card 1/2

Y YUGOSLAVIA, Woods and Wood Control.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 1943 N

are more quickly differentiated. The yield
is not reduced. -- L. D. Stonov

ARSIC, Trajko [translator]; STEFANOVIC, Bosko [translator]

Activities of the Italian State Railroads and the Austrian Federal
Railroads in 1960-1961. Zalesnice Jug 18 no.11/12:52-59 '62.

ARSIENE, Ch.

Experience in the treatment of tuberculous meningitis in
children with hormonal preparations. Sveik. apsaug. 9 no.3:
25-28 Mr'64

1. Viliniaus jungtine vaiku ligonine.

*

ARSIENE, Ch.

Results of the treatment of tuberculous meningitis in children
using hormonal preparations. Sveik. Apsaug. no.3:25-28 '64.

1.Vilniaus jungtine vaiku ligonine.

ARSIN, C., ing.

From the achievements of the Brad Gold Mining Trust during the years of people's regime. Rev min 15 no.8:402-405 Ag '64.

1. Director, the Gold Mining Trust, Brad.

ARSIN, C., ing.; OLOSU, P., ing. *sef*

Labor productivity in the mining industry. Probleme econ 17 no.2:153
F 64.

1. Director, Trustul aurului Brad (for Arsin). 2. Trustul aurului Brad
(for Olosu).

ARSINEVICH, G.

Two-solution copper toner. Sov.foto 22 no.1:33 Ja '62.

(Photographic chemicals) (MIRA 15:1)

ARSINEVICH, G. (Moskva)

Developers which do not produce developing fog. Sov.foto 22
no.9:39 S '62. (MIRA 15:8)
(Photography—Developing and developers)

COUNTRY : U.S.S.R.
 CATEGORY : Weeds and Weed Control N
 ABS. JOUR. : RZhBiol., No.23, 1958, No. 104933
 AUTHOR : ~~AKSIRIV, A. F.~~
 INST. : Uzhgorod University
 TITLE : Problems in the Study of Weed Vegetation in Zakarpatt'ye.
 ORIG. PUB. : Nauchn. zap. Uzhgorodsk. un-ta, 1957, 25, 131-141
 ABSTRACT : Weed vegetation of Zakarpatt'ye is described. Spraying the sowings of winter wheat with herbicide 2,4-D in 1954-1955 at the kolkhoz imeni Kalinin in Berehivskiy rayon and at the oblast' agricultural station destroyed * scabgrass and other dicotyledonous weeds. -- L. D. Stenopv

Card: 1/1

* field

ARSIRIY, Yu.A.; BLANK, M.I.; BLIZNYUK, V.F.; GLUSHKO, V.V.;
KLITOCHENKO, I.F.; LITVINOV, V.R.; PALIY, A.M.; PAN'KIV, A.M.;
PISTRAK, R.M.; CHERPAK, S.Ye.; CHIRVINSKAYA, M.V.; YANCHENKO, L.M.

Plan for the areal study of the Dnieper-Donets Lowland. Trudy
VNIIGAZ no.14:3-17 '62. (MIRA 15:5)
(Dnieper-Donets Lowland---Petroleum geology)
(Dnieper-Donets Lowland---Gas, Natural---Geology)

ARSIRIY, Yu.A.; BILYK, O.D.

Oil and gas potentials of the Lower Permian sediments of the
Dnieper-Donets Lowland in the light of recent data on their
distribution. Trudy UkrNIGRI no.5:23-29 '63.

(MIRA 18:3)

(N) 1 12150-66

ACC NR: AP6001832

SOURCE CODE: UR/0375/85/000/010/0047/0045

AUTHOR: Arstyankov, Ye. A. (Lieutenant commander)

ORG: none

TITLE: Training of torpedo crews of surface vessels

SOURCE: Morskoy sbornik, no. 10, 1965, 47-48

TOPIC TAGS: naval training, torpedo, training procedure, specialized training

ABSTRACT: Experience shows that the reasons for the majority of sinking and incorrect motion of torpedos is due to violations by the respective personnel of the requirements of torpedo servicing. The present note emphasizes the need for year around training (at least twice a week) of torpedo crews of surface vessels. Recommendations are given for procedures to be followed during the winter, the summer, while in port, short or long cruises, and during the periods of repairs. A unit in which such training is well organized is mentioned.

SUB CODE: 15, 05 / SUBM DATE: none

Cord 1/1 HW

AT/AM/WH/3D, WH/3D
 19/0136

... and mechanical
 properties ...
 ... 6, 1954
 ... deformation, mechanical
 ... compound, NIAI
 ... compound, NIAI
 ... structure on the deformation behavior of
 ... has been studied. Deformation
 ... range from -196C
 ... from tem-
 ... used
 ... compound
 ...

ENCLOSURE : 1

[illegible]

ARSKIY, A.K.

"Water resources of the United States and Canada and their use."
Reviewed by A.K. Arskii. Vop. geog. no. 41:296-299 '57. (MIRA 10:12)
(United States--Water supply)
(Canada--Water supply)

ABSKII, A.

Experimentation in underground shale gasification in Great Britain
and the United States. Podzem. gas. ugl. no. 4:70 '58.

(MIRA 11:12)

(Great Britain--Coal gasification, Underground)

(United States--Coal gasification, Underground)

ARSKIY, A.; YURCHENKO, V.

Using radioactive rays and isotopes in underground coal
gasification and in allied branches of industry. Podzem. gas.
ugl. no.1:77-78 '59. (MIRA 12:6)
(Coal gasification, Underground)
(Radioisotopes---Industrial applications)

ARSKIY, A.K.; YURCHENKO, V.P.

Research on the exploitation of petroleum pools with help of combustion in the strata. Podzem.gaz.ugl. no.2:73-77 '59.
(MIRA 12:9)

(Petroleum mining) (Research)

ARSKIY, A.K.

Pressure cooker used for hydraulic coal seam fracturing
(from "World oil" No.4, 1957, "Petroleum Engineer" No.10,
1957). Podzem.gaz.ugl. no.3:74-75 '59. (MIRA 12:12)
(United States--Hydraulic mining)

ARSKII, A.K.; YURCHENKO, V.P.

Pilot plant exploitation of an oil strata by combustion
drive. Podzem.gaz.ugl. no.4:69-72 '59. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgas.
(United States--Oil fields--Production methods)

ARSKIY, A.K.; GAL'PERIN, V.M., red.; TATEVOSYAN, L.K., red.;
BORUNOV, N.I., tekhn. red.

[Natural gas and power engineering in the U.S.A.] Pri-
rodnyi gaz v energetike SShA. Moskva, Gosenergoizdat, 1963.
207 p. (MIRA 17:1)

Shiv, A.A.; Stetsky, A.A.

Determining the optimal parameters of a gas pipeline using an
electronic computer. Gaz. prom. 10 no.4:40-44 '65.

(MIRA 18:5)

AZERHIKOV, V.; ARLAZOROV, M.; ARSKIY, E.; BAKANOV, S.; BELCHENOV, I.;
BILENKIN, D.; VAIEL', I.; VLADIMIROV, L.; GUSEVICH, S.;
YELAGIN, V.; YERESHKO, P.; ZHURBINA, S.; KAZANNOVSKAYA, G.;
KALININ, Yu.; KELLER, V.; KONOVALOV, B.; KREKHILIN, Yu.;
LEBEDEV, L.; PODGORODNIKOV, M.; RABINOVICH, I.; REFIN, L.;
SMOLYAN, G.; TITARENKO, V.; TOPILINA, T.; FEDCHENKO, V.;
EYDEL'MAN, N.; EMME, A.; NAUMOV, P.; YAKOVLEV, N.;
MIKHAYLOV, K., nauchn. red.; LIVANOV, A., red.

[Little stories about the great cosmos] Malen'kie rasskazy o
bol'shom Kosmose. Izd. 2., Moskva, Molodaa gvardiia, 1964.
368 p. (MIRA 18:4)

ARSKIY, G. K.

Reconditioning and utilization of rein-forced concrete ships; reference manual for skip-
pers and sailors. Moskva, Iac-vo Narkomrechflota SSSR, 1945. 31p. (51-15885)

VM148.A7

1. Ships, Concrete.

SMITH, R. H.

Utilizing ancient vegetation layers as natural foundations. Biol. prem., 36,
No. 7, 1952.

SO: MIRA, October 1952

ARSKIY, G.M., kandidat tekhnicheskikh nauk.

Mass produced reinforced concrete units for major repair of
apartment buildings. Gor. khos. Mosk. 29 no.4:9-12 Ap '55.
(MLRA 8:6)
(Leningrad--Apartment houses--Maintenance and repair)
(Precast concrete construction)

ARSKIY, G.M., kand.tekhn.nauk; RYNDIN, N.I., kand.tekhn.nauk

Effect of oil saturation of concrete on the bearing capacity of
reinforced concrete elements. Prom.stroi. no.10:44-46 '62.
(MIRA 15:12)

(Precast concrete--Testing)

ARSKIY, G.M., kand.tekhn.nauk. RYKOVIN, N.I., kand.tekhn.nauk

Effect of the greasing of reinforced concrete elements on the
bond between concrete and reinforcement. Prom.stroi. 41 no.3:
39-40 Mr '64. (MIRA 17:3)

ARSKIY, I.P., nauczenny uchitel' ESFSR.

New type of electrically heated reaction tube. Khim.v shkole
14 no.5:55-57 8-0 '59. (MIRA 12:12)
(Chemical apparatus)

ARSKIY, I.P., zaslushennyy uchitel'shkoly RSFSR (Ulan-Ude)

Apparatus for an experimental proof of the law of conservation
of matter. Khim.v shkole 15 no.1:69-70 Jan-F '60.

(MIRA 13:5)

(Chemistry--Experiments)

ARSKIY, I.P., zasluzhennyy uchitel' shkoly RSFSR

Apparatus for demonstrating the properties of exhaled air. Khim.
v shkole 16 no.2:84-85 Mr-Ap '61. (MIRA 14:6)
(Air--Analysis)

Dissertation: "Conditional Movement Reflexes of Horses." Acad Med Sci USSR,
7 Apr 47.

S0:Vechernyaya Moskva, Apr, 1947 (Project #17836)

ARSKII, Kh.T., professor.

Conditioned salivary reflexes in horses. Secr. trad. Khar'. vet.
inst. 20:64-71 '49. (MLRA 9:11)
(Conditioned response) (Horses--Physiology)
(Salivary glands)

ARSKIY, Kh.T., professor, doktor.

Methods of studying conditioned motor-defense reflexes in horses.
Sbor.trud.Khar'.vet.inst. 21:144-147 '52. (MLA 9:12)

1. Kafedra fiziologii Khar'kovskogo veterinarnogo instituta.
(Conditioned response) (Horses--Physiology)

ARSKIY, Kh. T., professor, doktor.

Some peculiarities of conditioned reflexes in colts. Sber.trud.
Khar'.vet.inst. 21:148-155 '52. (MLRA 9:12)
(Conditioned response) (Horses--Physiology)

ABSKII, Kh.T., professor, doktor.

Higher nervous activity in domestic animals, *Sbor. trud. Khar', vet. inst.*
22:68-77 '54. (MIRA 9:12)

1. Kafedra fiziologii sel'skokhozyaystvennykh zhivotnykh Khar'kovskogo
veterinarnogo instituta.
(Veterinary physiology) (Conditioned response)

ARSKIY, Kh.T., professor, doktor veterinarnykh nauk.; KOSPANYEV, V.A., student.

Chain-type conditioned reflexes in horses. Sbor. trud. Khar'. vet.
inst. 22:166-170 '54. (MIRA 9:12)

1. Kafedra normal'noy fiziologii Khar'kovskogo veterinarnogo instituta.
(Conditioned response) (Horses---Physiology)

ARSKIY, Kh.T.; REZNICHENKO, L.P.

Conditioned reflex induction of an epileptoid state in dog. *Fiziol. shur. (Ukr.)* 1 no.4:15-19 J1-Ag '55. (MIRA 9:11)

1. Kharkivs'kiy veterynarniy institut, kafedra fiziologii.
(EPILEPSY, experimental,
conditioned reflex induction of epileptoid state in dog)
(REFLEX, CONDITIONED,
conditioned induction of epileptoid state in dog)

USSR / Human and Animal Physiology. Nervous System.

T-10

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3872

Author : ~~Arskiy, Kh. T.~~; Kompantsev, Y. A.; Chumakova, T. A.;
Shevchenko, P. Ya.; Yarovitsina, L. I.

Inst : Moscow Academy of Veterinary Medicine

Title : Further Data on the Physiology of Higher Nervous
Activity in Horses

Orig Pub : Tr. Mosk. vet. akad., 1957, 20, 26-30

Abstract : Conditioned motor-defense reflexes of the 2nd order
were worked out in horses after 3 - 4, and were con-
solidated on the 22-47th conjunction. Conditioned
reactions of the 3rd order were developed rapidly,
but they were unstable, being converted at the attempt
of consolidation into conditioned inhibition. Reflexes
of 4th order could not be obtained. Formation of the
reaction of choice was noted (separate conditioned motor

Card 1/2

SUBJECT: USSR/Book of Travel 4-5-12/17

AUTHOR: Arskiy, V.

TITLE: One Year on a Drifting Ice Flee (Ood na drayfuyushohey l'dine)

PERIODICAL: Znaniye - sila, May 1957, # 5, p 34 (USSR)

ABSTRACT: This article contains a review of a book "Na l'dine cherez Polyus" - "On an Ice Flow through the Pole" by Yevgeniy Yatsun. It is a diary of the journey accomplished by the Soviet Drifting Station "Severnyy Polyus - 5" (North Pole - 3) lasting one year.
The article contains one picture.

ASSOCIATION:

PRESENTED BY:

SUBMITTED: Review of a book written by Yevgeniy Yatsun

AVAILABLE: At the Library of Congress

Card 1/1

ARSKII, V.G., mladshiy nauchnyy sotrudnik

Evaluation of the effectiveness of planned examinations to
discover the carrying of pathogenic intestinal group bacteria.
Zdrav.Tadzh. 6 no.1:36-39 Jan-F '59. (MIRA 12:10)

1. Iz Stalinabadskogo Instituta epidemiologii i gigieny
(direktor - dotsent M.Ya.Rasulov).

(INTESTINES--BACTERIOLOGY)

(BACTERIOLOGY--TECHNIQUE)

YASINSKIY, A.V.; ARSKIY, V.G.; DEGTYAREV, Yu.L.

Control of dysentery in areas of transmigration by inhabitants
of the mountain districts of Tajikistan. Zdrav. Tadzh. 7
no. 2:19-22 Mr-Apr '60. (MIRA 13:10)

1. Iz Stalinabadskogo instituta epidemiologii i gigiyeny.
(TAJIKISTAN--DYSENTERY)

ARSKIY, V.G.

Use of phage titer growth to indicate dysentery bacteria. Zdrav.
Tadsh. 7 no. 2:51-54 Mr-Apr '60. (MIRA 13:10)

1. Iz Stalinabadskogo instituta epidemiologii i gigiyeny.
(DYSENTERY)

ARSKIY, V. G.

Cand Med Sci - (diss) "Reaction of accumulation of phage titer as a method of uncovering sources, and the study of epidemiological role of several factors in the transmission of dysentery." Stalinabad, 1961. 23 pp; (Academy of Medical Sciences USSR); 250 copies; price not given; (KL, 10-61 sup, 223)

ARSKIY, V.G.; AKHMEDOV, Z.Z.; YASINSKIY, A.V.

Use of the phage titer growth reaction for the diagnosis of chronic
dysentery. Zdrav. Tadah. 8 no. 2:8-11 '61. (MIRA 14:4)

1. Iz Stalinabadskogo instituta epidemiologii i gigiyeny i
Respublikanskoy klinicheskoy bol'nitsy.
(DYSENTERY)

ARSKIY, V.G.; GADZHEY, Ye.F.; ZATSEPIN, N.I.; YASINSKIY, A.V.

Role of flies in the seasonal character of dysentery. Zhur.
mikrobiol. epid. i immun. 32 no.6:27-32 Ju '61. (MIRA 15:5)

1. Iz Stalinabadskogo instituta epidemiologii i gigiyeny.
(DYSENTERY) (FLIES AS CARRIERS OF DISEASE)

ARSKIY, V.N.

Speed of isothermal martensite transformation into a Fe-Ni-Mn alloy
(From foreign periodicals). Metalloved. i obr. ust. no. 2:57-58 F '56.
(Martensite) (Iron-nickel-manganese alloys) (MIRA 9:7)

ARSKIY, I.N., inzhener.

Formation rate of martensite crystals. Metalloved. i obr. met.
no.11:26-29 N '56. (MIRA 10:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i
mashinostroyeniya.
(Martensite) (Ultrasonic waves--Industrial applications)

AUTHOR: Arslan, V. N.

SOV/126-6-5-16/32

TITLE: Micro-kinetics of Martensite Transformation
(Mikrokinetika martensitskogo prevrashcheniya)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 3,
pp 498-504 (USSR)

ABSTRACT: The investigations described in this paper were devoted to the study of the kinetics of formation of individual portions of martensite and also to the study of the relations between these phenomena, referred to in the paper as "micro-kinetics", and the changes in the magnitude of the stresser and strains of the specimen. The investigations were carried out on steel containing 0.45% C and 19% Ni hardened from 1200°C, having an austenitic structure at room temperature and a martensitic point of about 0°C. Stretching at room temperature brings about in this steel martensitic transformation; the dependence of the quantity of the forming martensite on the magnitude of the applied stress for the steel under consideration is graphed in Fig.1. The martensite formation was evaluated on the basis of magnetostrictive measurements in an a.c. field using a probe, a sketch of which is shown in Fig.2. For investi-

Card
1/5

Micro-kinetics of Martensite Transformation SOV/126-6-3-16/32

gating the kinetics of formation of individual portions of martensite the following were recorded simultaneously by means of a loop oscillograph: tensile force, deformation and quantity of the magnetic phase. Several oscillograms are reproduced which show that the formation of the martensite takes place only at stresses slightly above the yield point after reaching the martensitic point σ_M and also that the instant of formation of a portion of martensite, which is noticed as a displacement of the magnetometric curve, will always correspond accurately in time with the instant of displacement (rapid extension) characterized by a sharp drop in the stress in the tensile test curve. For investigating in greater detail the process of displacement and the simultaneous process of martensite formation a special instrument was designed consisting of a metering coil containing the investigated specimen. The coil terminals are connected to an oscillograph; the coil with the specimen is placed into a d.c. magnetic field. Of greatest interest is the curve $\Delta M\%$ in Fig. 7 which shows that the formation of a portion of martensite as a function of time has the ordinary characteristic of a kinetic phase

Card
2/5