# KOLPAKOV, . M. Not only the training program on traffic regulations by also the driver-education program should be reviewed. Avt. transp. 38 no.11: 51 H \*60. (MIRA 13:11)

51 H 160.

1. Nachal'nik otdela avtopodgotovki i sporta TSentral'nogo komiteta Dobrovol'nogo obshchestva sedeystviya armii, aviatsii i flotu SSSR. (Automobile drivers)

CIA-RDP86-00513R000824010005-1" APPROVED FOR RELEASE: 06/13/2000

# Organizations of the Volunteer Society for Assistance to the Army, Air Force and Navy and training of mechanization specialists. Za rul. 19 nc.5:4 My '61. (MIRA 14:7) 1. Nachal'nik otdela avtomotopodgotovki i sporta TSentral'nogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu SSSR. (Farm mechanization) (Automobile drivers)

# The business of the whole party and all the people. Za rul. 20 no.5:1-2 My '62. (MIRA 16:4) 1. Zamestitel' nachal'nika Upravleniya tekhnicheskoy podgotowki i sporta TSentral'nogo komiteta Dobrovol'nogo obshchastva sodeystviya armii, aviatsii i flotu. (Motor vehicles—Societies, etc.)

KOLPAKOV, M. G. -- "Concerning Certain Antigen Properties of Hyaluronic Acid of the Intercellular Matter of the Organism."\*(Dissertation for Degrees in Science and Engineering Defened at USSR Higher Educational Institutions.) Kazakhstan State Medical Inst imeni V. M. Molotov, Alma-Ata, 1955

SO: Knizhnaya Letopia' No. 25, 18 Jun 55

\* For Degree of Candidate in Medical Sciences

m.6.

USSR/General Problems of Pathology. Immunity

U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60945

Author : Kolpakov M.G.

: Novosibirsk Medical Institute Inst

: Haptenic Properties of Hyalumonic Acid Title

Orig Pub: Tr. Novosibirskogo med. in-ta, 1957, 27, 115-123

Abstract: The serum of rabbits immunized with an extract of human skin (complex tissue antigen consisting of a protein base and related polysaccharides group - hyaluronic acid I), acquired the ability to participate in the reaction of the blood serum with the tissue antigen and with I freed of proteins, and obtained from a human umbilical cord. An immunization of rabbits with this compound did not cause a formation of antibodies. Thus, it has been demonstrated that I is a hapten.

Card : 1/1

### APPROVED FOR RELEASE 1.06/13/2000 CIA-RDP86-00513R000824010005-1

ABS. JOUR. : REBiol., No. 12 1958, No. 56260

AUTHOR

: Holpakov, M.G.

INST.

: Novosibirsk Medical Institute

TITLE

:The Pathophysiological Significance of Hyaluronic

ORIG. PUB. : 1r. Novosibirskogo Med. In-ta, 1937, Vol.27,

124-137

ABSTRACT

:Raboits, sensitized with an extract of human skin containing hyaluronic acid (I), reacted to the injection 11-13 days later of a challenging dose (hopten) with an increase in the amplitude and frequency of respirations and elevation of the blood pressure, frequently on a background of motor restleasness. I specifically desensitived rabbits to the subsequent injection (45-50 minutes later) of the complete skin antigen. Hence, due to its properties as a hapten, I elicited changes in the reactivity of the organism. -- F.L. Bukh

GARD:

1/1

AUTHOR: Kolpakov, M. G. 50V/20-121-4-51/54

The Protein Composition of Blood in the Case of Anaphylaxis of Rabbits (Belkovyy sostav krovi pri anafilaksii u krolikov)

OI REDELOS (DELECTO) BOOMES IN

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 4, pp. 759-761 (USSR)

ABSTRACT: By means of electrophoretical investigations and the application

of labelled atoms it was possible to prove that the proteins of the blood plasm are highly active substances containing anti-bodies, vitamines, hormons and catalysts (Refs 6, 8, 10 and others). It was to be expected that in the case of an anaphylac-

tic shock, in connection with which marked hemodynamic disturbances of metabolism occur the amount of individual protein fractions will also be disturbed. The author determined the

entire amount of protein and the single fractions in the blood of 20 rabbits which had been desensitized before the inoculation of horse serum and during the anaphylactic shock. The animals

were sensitized according to the method of E. Ya. Kladnitskaya (Ref 4). From table 1 can be seen that the protein content in

Card 1/3 the blood is hardly at all changed during the shock. The

SOV/20-121-4-51/54

The Protein Composition of Blood in the Case of Anaphylaxis of Rabbits

separation of the animals with respect to reaction variants proved that the average numbers sometimes hide diametrically opposed changes. In the case of 5 rabbits a reaction type was found which the author calls variant A (Table 2 and Fig 1 A). The decrease of the entire amount of blood proteins was characteristic for it. This decrease on the whole took place at the expense of albumines and  $\beta$  glubolines whereas the amount of  $\alpha$ - and  $\beta$ -glubolines remained unchanged. All rabbits of this variant remained alive although 4 of them suffered from a severe shock and the blood pressure fell to 60-40 mm torr. The variant B has 2 subdivisions: B, with 7 and B2 with 8 animals (Table 3 and Fig 1 B). A rapid increase of the  $\beta \text{--}$ glubolines and a slight increase of albumine was a characteristic feature of B1. The entire amount of protein even increases somewhat. It mainly takes place at the expense of the 82glubolines (Table 4 and Fig 1 C). 4 animals of the variant B and 2 of the variant B2 died. Thus a dependence between the character of change of the protein content in the blood and the

Card 2/3

SOY/20-121-4-51/54

The Protein Composition of Blood in the Case of Anaphylaxis of Rabbits

development of the anaphylactic reaction was suggested.

There are 1 figure, 4 tables, and 11 references, 7 of which

are Soviet.

Novosibirskiy gosudarstvennyy meditsinskiy institut (Novosibirsk State Medical Institute) ASSOCIATION:

April 17, 1958, by N. N. Anichkov, Member, Academy of Sciences, PRESENTED:

USSR

February 26, 1958 SUBMITTED:

Card 3/3

CIA-RDP86-00513R000824010005-1" APPROVED FOR RELEASE: 06/13/2000

KOLPAKOV, M.G.; ZHDANOVA, V.G., student; SHUSHPANNIKOVA, O.V., student

(Hovestbirsk)

Effect of heparin on anaphylaxis. Pat.fiziol. i eksp.terap.
3 no.2:69 Mr-Ap '59. (MIRA 12:6)

1. Iz kafedry patologicheskoy fiziologii (zav. - dotsent G.L.
Lyuban) Novosibirskogo meditsinskogo instituta.

(ALLEGY, exper.

anaphylaxis. eff. of heparin in rabbits (Rus))

(HEPARIN, eff.

on anaphylaxis in rabbits (Rus))

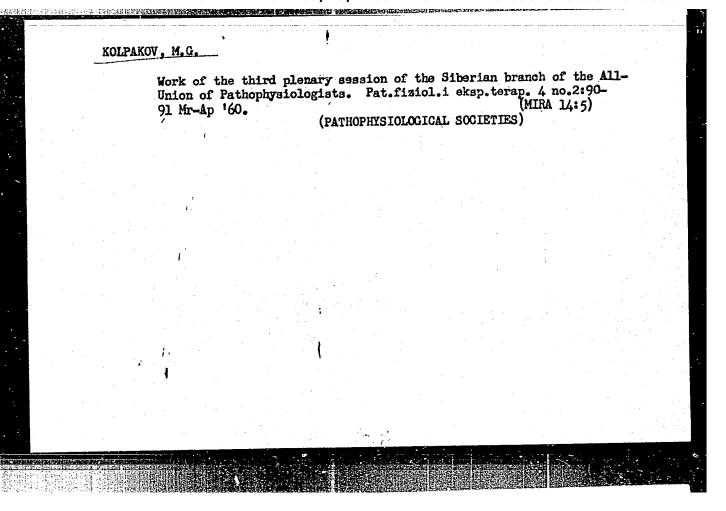
KOIPAKOV, M.G.; POLYAK, M.G.; YAKOBSON, G.S.

Role of the adrenals in the restoration of vital functions following clinical death. Biul. eksp. biol. i med. 47 no.3:21-27 Mr '59. (MIRA 12:7)

1. Iz kafedry patologicheskoy fiziologii (zav. - dotsent G. L. Lyuban) Novosibirskogo meditsinskogo instituta (dir. - prof. G. S. Zalesskiy Predstavlena deystvitel nym chlenom AMN SSSR V. N. Chernigovskim. (RESUSCITATION.

eff. of adrenalectomy on restoration of vital funct.
after clin. death in exsanguinated animals (Rus))
(ADRENALECTOMY, effects,

on restoration of vital funct. after clin. death in exsanguinated animals (Rus))



### KCLPAKOV, M.G.

CONTROL OF THE PROPERTY OF THE

Role of the adrenopituitary system in the restoration of vital functions after clinical death. Biul. eksp. biol. i med. 51 no.4: 32-39 Ap '61. (MIRA 14:8)

1. Iz kursa patologicheskoy fiziologii i laboratornoy diagnostiki (zav. - dotsent M:G.Kolpakov) Stalinskego instituta usovershenstvovaniya deystvitel'nym chlenom AMN SSSR A.V. Lebėdinskim.

(RESUSCITATION) (ENDOCRINE GLANDS)

(DEATH)

KOLPAKOV, M.G.

Changes in the protein composition of blood plasma following clinical death caused by hemorrhage. Dokl.AN SSSR 138 no.4:979-981 Je 161. (MIRA 14:5)

1. Stalinskiy gosudarstvennyy institut usovershenstvovaniya vrachey. Predstavleno akademikom A. N. Bakulevym. (BLOOD PROTEINS)

Influence of cortisone and desoxycorticosterone on the restoration of vital functions following clinical death caused by rapid and slow hemorrhage. Pat. fiziol. i eksp. terap. 5 no.4:16-19 Jl-Ag '61.

1. Kurs patofiziologii i laboratornoy diagnostiki (sav. - dotsent M.G.Kolpakoy) Institut usovershenstvovaniya vrachey.

(CORTISONE) (CORTICOSTERONE) (HEMORRHAGE)

(DEATH) (METABOLISM)

KOLPAKOV, M.G.; FEDENKOV, V.I.; SHUSHPANNIKOVA, O.V. (Novokuznetsk)

Pathogenesis of the eosinopenic reaction of terminal states.

Report No.1. Prohlendok.i gorm. no.4:19-23 '62. (MIRA 15:11)

1. Iz kursa patofiziologii i laboratornoy diagnostiki (zav. - dotsent M.G. Kolpakov) Novokuznetskogo instituta usovershenst-vovaniya vrachey (dir. - dotsent G.L. Starkov).

(EOSINOPHILES) (HYPOPHYSECTOMY) (DEATH, APPARENT)

KOLPAKOV, M.G.; POTEKHIN, K.G.; FEDENKOV, V.I.

**《美国中部国际国际国际国际国际国际国际国际** 

Mechanism of the eosinopenic reaction in terminal states. Biul. eksp.biol.i med. 54 no.11:36-39 N '62. (MIRA 15:12)

1. Iz kursa patologicheskoy fizologii i laboratornoy diagnostiki (zav. - dotsent M.G.Kolpakov) Novokuznetskogo instituta usovershenstvovaniya vrachey. Predstavlena akademikom V.N.Chernigovskim. (EOSINOPHILES) (DEATH, APPARENT)

KOLFAKOV, Mikhail Grigor'yevich; SHAPIRO, V.M., red.

[Adrenal glands and reanimation] Nadpochechniki i reanimatsiia. Moskva, Meditsina, 1964. 159 p. (MIRA 17:8)

L 1599-66 ACCESSION NRI AP5024772 UR/0219/64/058/009/0062/0066

AUTHOR: Kolpakov, M. G.; Titova, K. T.

TITIE: Effect of adrenal glands on the engymatic activity of the blood and tissues

in resuscitation

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 58, no. 9, 1964,

62-66

TOPIC TAGS: hematology, endocrinology, blood, autotransplantation, gland, engyme

ABSTRACT: The aldolase and glutathione activity of the blood, cardiac muscle and liver of cats resuscitated after a fatal blood loss were studied. The cats were variously intact, adrenal-ectomized, and with autotransplanted adrenals.

In resuscitation of intact animals, there was an increase of aldolase in the blood and concomitant reduction in the liver but no observable change in the heart. Glutathione content increased in the blood and remained unchanged in the tissues. In dying and resuscitated adrenalectomized cats, the aldolase and glutathione activity of the blood remained unchanged. In the

Card 1/2

L 1599-66

ACCESSION HR: AP5024772

animals with autotransplanted adrenals, the blood aldolase activity reached control levels during resuscitation while the glutathione content increased

It is concluded that the results obtained are related to the varying degree of exclusion of the corticosteroid function resulting from sarehalectomy and autotransplantation of the adrenals. The results also show the close relation of the course of enzymetic adaptive reactions to the functional state of the adrenal cortex, and indicate the advisability of investigating the possibility of using the stimulating effect of corticosteroid compounds on enzymatic transformations during resuscitation. Orig. art. has: 3 tables.

ASSOCIATION: Novokuznetskiy institut usovershenstvovaniya vrachey (Novokuznetsk Institute for the Advanced Training of Physicians)

SUBMITTED: 22Mar63

ENCL: 00

SUB CODE: LS

HR REF SOV: 018

OTHER: 007

Card 2/2 8/

### KOLPAKOV, M.I.

Expanding self-active automobile and motorcycle clubs. Za rul. 16 no.11:4-5 N '58. (MIRA 12:1)

1. Nachal'nik otdela avtemotopodgotovki i sporta Upravleniya Protivovozdushnoy oborony itekhnicheskoy podgotovki TSentral'noge komiteta Dobrovel'noge obshchestva sodeystyiya armii, aviatsii i flotu SSSR.

(Automobiles--Societies, etc.) (Motorcycles--Societies, etc.)

### SOV-120-58-1-8/43

AUTHORS: Zhdanov, A.P., Kolpakov, M.I., Kuz'min, V.N., Raguzin, R.M., Fedotov, P.I.

TITIE: An Instrument for Measuring the Gap Lengths in the Tracks for Particles in Photo-Emulsions (Pribor dlya izmereniya prosvetov v trekakh chastits v fotoemul'siyakh)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 46-47 (USSR)

ABSTRACT: The instrument is in the form of an eye-piece in whose field of view one sees a scale, a pair of parallel lines and the usual crosswire. The cross wire is set parallel to the track and the gap defined by the two parallel wires is the track and the gap defined by the two parallel wires is moved along the track. This motion is achieved by means of the two micrometers shown in Fig.2. The motion of the two the two micrometers is independent of each other. There are 2 micrometers is independent of each other. There are 2 diagrams, no tables and 3 references, one of which is English

Card 1/2

SOV-120-58-1-8/43

An Instrument for Measuring the Gap Lengths in the Tracks for Particles in Photo-Emulsions.

and 2 Soviet.

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute of the Academy of Sciences, USSR)

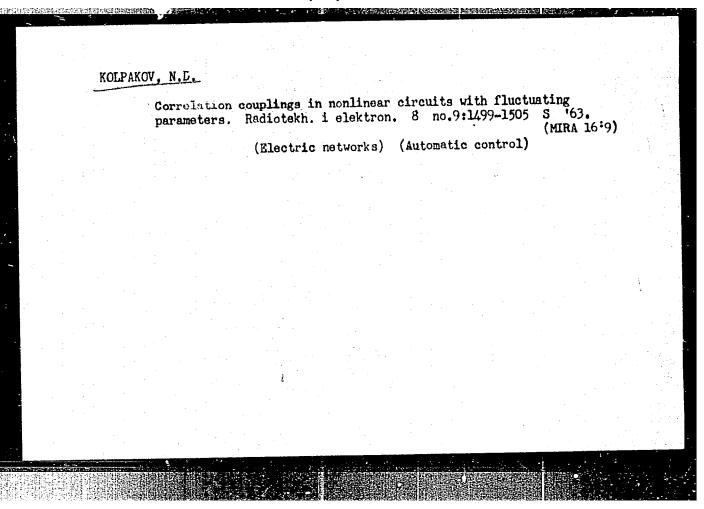
SUBMITTED: June 22, 1957.

- 1. Particles--Photographic analysis 2. Particles--Penetration
- 3. Measurement 4. Optical instruments-Applications

Card 2/2

- 1. KOLPAKOV, N. A., Eng.
- 2. USSR (600)
- 4. Radiators Testing
- 7. Installation for assembly and pressure testing of radiators. Biul. stroi. tekh. 10, No. 7, 1953.

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

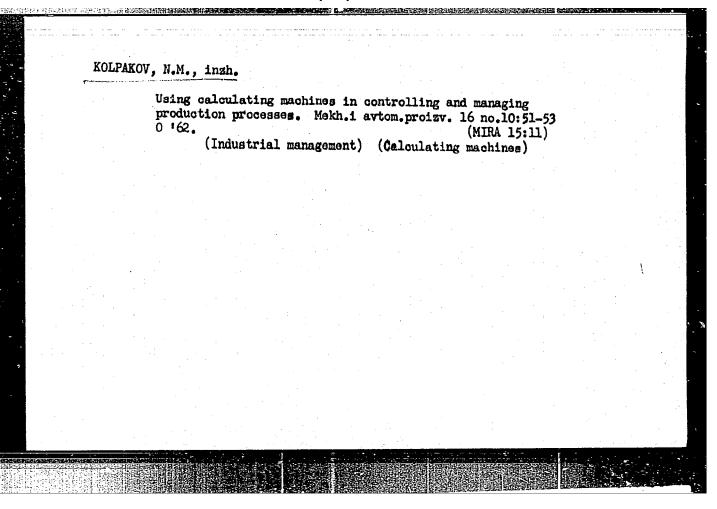


KOLPAKOV N. M.

28942

N. m. i orlova, a. v. tri eamyechatyel nykh karstovykh istochnika khryebta karatau v yuzhnom kaeakhstanye. Priroda, 1949, No. 9, c. 47-50.

So: Letopis' No. 34



\$/0057/64/034/008/1387/1391

AP4042923 ACCESSION NR:

AUTHOR: Kolpakov, O. A.; Kotov, V. I.

TITLE: Radiation of a charge passing through a cylindrical

resonator

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 34, no. 8, 1964, 1387-1391

TOPIC TAGE: charged particle radiation, field radiation, magnetic resonator

ABSTRACT: The radiation of separate waves and the total radiation generated by a charged particle passing through a cylindrical resonator with inlet and exit openings have been evaluated. The evaluation was based on determination of the energy of the electromagnetic field appearing during the passage of a charged beam through a cylindrical resonator. From a geometrical point of view, the beam was assumed to be a charged filament, its axis and direction of motion coinciding with the axis of the resonator. The velocity of the beam was assumed to be constant and the resonator to be electrically insulated from the outside space. When a beam of Card1/2

### ACCESSION NR: AP4042923

charged particles passes through a resonator, waves of all harmonics are generated. In the relativistic case, the contributions of higher harmonics may be essential. The induced field was found by solving inhomogeneous wave equations by means of a method presented by V. M. Lopukhin (Yozbuzhdeniye elektromagnitnykh kolebaniy i voln elektronnymi potokami. Gostekhizdat, M., 1953). Dnestrovskiy and Kostomarov obtained a formula for determining the radiation due to flight of a charge through an opening in an infinite screen. The authors present a simpler way for obtaining like results. The authors express gratitude to B. M. Bolotovskiy for a series of useful suggestions expressed during discussion of the work. Orig. art. has: 18 formulæs

ASSOCIATION: None

SUBMITTED: 27Ju163

SUB CODE: NP. EC

ATD PRESS: 3090

ENCL: OO

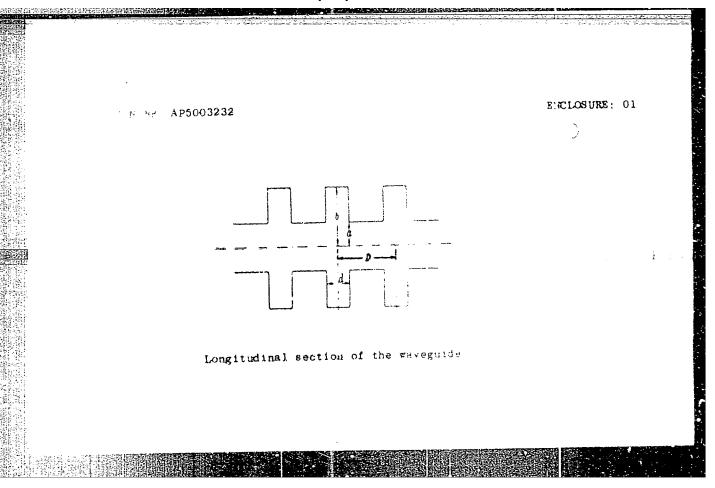
NO REP SOV: 006

OTHER: 000

Card 2/2

TIT (1) ETO-4 EMA 6 Peo s/0057/65/035/001/0026/0034 N VR: AP5003232 Epipakov, O.A./ Kotov V.I./ Om-San-Kha - Sharnal tekhnicheskoy fiziki, v.35, no.1, 1965, 20-34 TAUS: mathematical physics, dispersion relation, electromagnetic wave emiswaveguide, iris waveguide, slotted waveguide The dispersion equation is derived for the propagation of long wave-Waves in a periodic waveguide of circular cross soction? The longitudiof the waveguide discussed is shown in the figure (Enclosure 01). The collected by a charged particle moving on the axis of the waveguide is also and. The dispersion equation is obtained in the form of an intinite series when the wavelength is long compared with the quantity of (see the fiand is simplified for the cases of an iris riveguide (D = d, a  $\geq$  d) and a of coupled resonators (D lpha d, a  $\lessdot$  d). The expressions obtained for the if the pass band in these cases agree with those given by V.V. Vladimirckly 1 1269,1277,1947), but the derivation is said to be much simpler. An exor is derived for the power radiated by a charged particle moving on the a slotted waveguide (D > d). "In conclusion the authors express their

1 90 MR: AP5003232		<u>ئ</u> ــ
a Rolotovskiv for	nn V.I.Veksler for his constant number of valuable remarks in mulas, I figure and I table.	n discussions of the
	RNCL: 01	S JB CODE:EC
: f S( <b>V; 908</b>	OTHER: 001	



L 13436-66 EWT(1) IJP(c) ACC NR: APG002436 SOURCE CODE: AUTHOR: Kolpakov, C.A.; Kotov, V.I. UR/0057/65/035/012/2150/2153 ORG: none TITLE Radiation of a magnetic dipole moving through a cylindrical resonator or a SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no. 12, 1965, 2150-2153 TOPIC TAGS: electromagnatic wave, magnetic dipole, resonator, waveguide, radiction, ABSTRACT: The authors calculate the radiation of a magnetic dipole moving parallel to its dipole moment along the axist of an open cylindrical resonator, along the axis of a slotted waveguide consisting of a sequence of identical equally spaced rings, or through a circular opening in an infinite plane conducting sheet. The work is a continuation of earlier work of the authors (ZhTF, 34, 1387, 1964) and of the authors and Om Sang Ha (ZhTF, 35, 26, 1965) on the radiation of a point charge under similar circumstances. The mathematical treatment is similar to that employed in the references cited and is not described in detail in the present paper. Expressions are given for the Fourier components of the radiated energy. The magnetic dipole excites TE, rather than TM modes, in the resonator. On traversing the cylindrical resonator the magnetic dipole radiates relatively more energy into the higher frequencies than does a point UDC: 538.561

Card

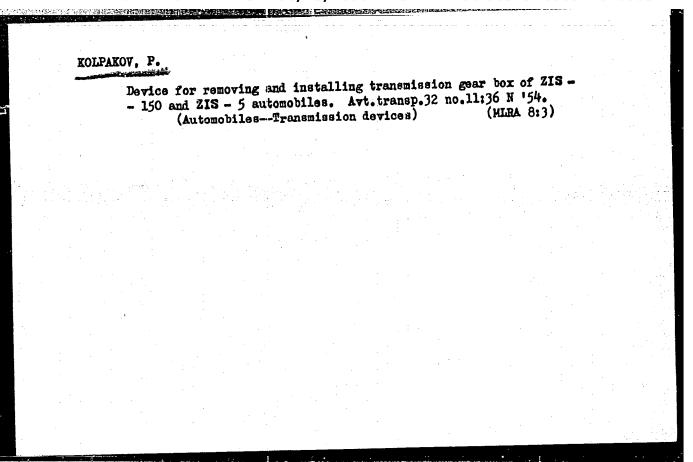
## KOLPAKOV, O.V.

At the Central Chemical Laboratory of the Main Geological-Prospecting Administration of Uzbekistan. Zav.lab. 28 no.8:1014-1015 (MIRA 15:11) 162.

1. Nachal'nik TSentral'noy khimicheskoy laboratorii Glavnogo upravleniya geologii i okhrany nadr pri Sovete Ministrov Uzbekskoy SSR.

(Usbekistan-Chemical laboratories)

CIA-RDP86-00513R000824010005-1" APPROVED FOR RELEASE: 06/13/2000



SOV/137-57-11-21378

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 104 (USSR)

Kolpakov, P.A. AUTHOR:\_

Making Steel Shapes by Hot Extrusion (O proizvodstve stal'nykh TITLE:

profiley metodom goryachego pressovaniya)

V sb.: Ratsionalizatsiya profiley prokata. Moscow, Profiz-PERIODICAL:

dat, 1956, pp 361-363

Omnidirectional compression, which makes it possible to shape heat-resistant steels that under normal conditions are ABSTRACT: virtually immune to pressworking, is the basis of the positive

aspect of this extrusion (E) process. For short runs this method is more economical than rolling. The metallurgical plants of the aircraft industry extrude steel shapes of complex configuration on 75-1000-3500 t presses with drafts of 5 to 12 for heat-resistant steel, and 10-35 for carbon steel. Difficulties in the development of the E process in connection with the low strength of the tool are observed. The facing of dies

with stellite and the use of fiberglass as coating in E makes it possible to increase the life of the tool to 25-40 extrusions of

carbon steel, and up to 5-15 E for alloy steel. An important

Card 1/2

CIA-RDP86-00513R000824010005-1" **APPROVED FOR RELEASE: 06/13/2000** 

SOV/137-57-11-21378

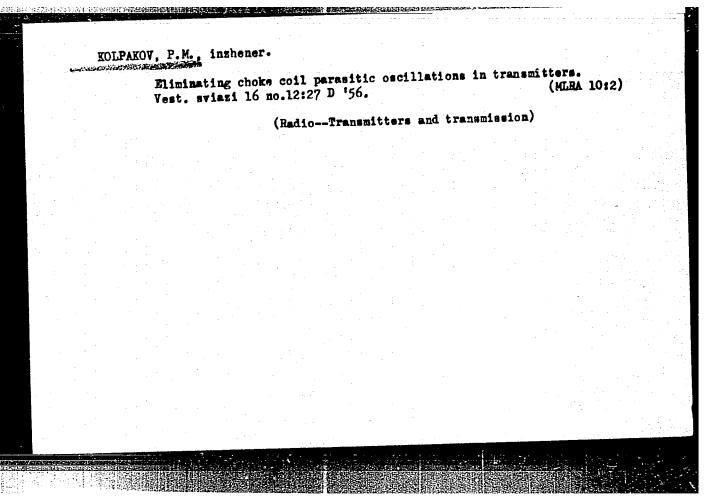
Making Steel Shapes by Hot Extrusion

role in increasing tool life is played by reduction in scale formation on heating. The dual heating in an electric furnace and a Va-Cl bath now practiced is scheduled to be replaced by electric induction heating in the future.

V.Ya.

Card 2/2

USSR/Electronics Card Pub. 133 - 6/20 Authors Lokshin, A. M., and Kolpakov, P. M. Title The selection of cathode chock coils and capacitors for a stagecoupling of transmitters, designed on an inversion diagram Periodical Vest. svyazi 10, page 11, Oct 54 Abstract A description is presented of methods for calculating the inductance of cathods check coils and coupling capacitors used in short-wave transmitters. Diagrams; graph. Institution : Submitted



YASTREBOV, P.V.; KOLPAKOV, P.S.; ZAYKO, V.P.; GOLEV, A.K.

Manufacture of low-carbon ferroshromium. Stal' 25 no.10;
917-919 0'65. (MIRA 18:11)

		<b>\</b> 1	the mag without atm. 18. 2	<b>USB8/A</b>	Former bel electromag upper atm pheric and tromagneti skifts whi	apets in Kirov Sta	
			the magnetic field of sunspots without attenuation into upper atm. Authors thank Prof Ya. P. B. B. Pikelner for their advice	20 - Aromos A.V. (1818)	6.0 4.9	spects in the Sun's Atmosphere, P. Ye. Kol Eirov State Pedagogic Inst imeni Lenin. "Astron Zhur" Vol XXVIII, No 6, pp 443-449	USSR/Astronomy - Samplet Field   Noy/Dec
			into upper Prof Ya. P. Cheir advice	omspor siene (Comtd.)	that conducting solar atm shields it fields and bars their entry into found erromeous. Shows that chromospons matter moves easily during electrocesses, and constitutes macroscopi reduce the conductivity. Therefore	inst imeni ] II, No 6, y	or Field
			nspots can propagate upper hayers of solar Ya. P. Terletskiy and advice.		ar stm shields neir entry into ne that chromos sily during els rates macroscop tty. Therefore	P. Ye. Kolpekov Lenin	<b>Woy</b> /
: .; 	Erwet				ore its	9	107/Des 33

WOLPAKOV, P. C.

USSR/Astronomy - Astrophysics, Solar 11 Jan 51
Electromagnetic Fields

"Problem of Propagation of Electromagnetic Spot
Field Within the Solar Atmosphere," P. E. Koipakov, Ya. P. Terletskiy, Moscow State U imeni Lomonosov

"Dok Ak Nauk SSSR" Vol LXXVI, No 2, pp 185-188

Despite strong ionization of solar atm, computation and observed phenomena prove propagation of
electromagnetic fld within atm, inducing motion of
chromospheric material and protuberances.

KOLPAKOV, P. YE.	Ţ.	230172
	USSR/Astronomy - Solar Corona Nov/Dec 52	
	"Mature of Coronal Regions," P. Ye. Kolpakov "Astron Zhur" Vol 29, No 6, pp 638-648	
	Discusses problem of electromagnetic origin of solar coronal regions, assumed to produce corpuscular beams and radio emission. Indebted to Ya. P. Terletskiy and S. B. Pikelner.	
	239172	

#### CIA-RDP86-00513R000824010005-1 "APPROVED FOR RELEASE: 06/13/2000

AUTHOR:

TITLE:

Kolpakov, P. Ye. The acceleration of charged particles in the electromagnetic field of Sun-spots. (K voprosu uskoreniya

zaryazhennykh chastits v elektromagnitnom pole

solnechnykh pyaten).

"Astronomicheskiy Zhurnal" (Journal of Astronomy), 1957, Vol.34, No.2, pp. 222-232 (USSR).

ABSTRACT:

PERIODICAL:

Observational data suggest that charged particles (ions and electrons) exist in the solar atmosphere. Their number varies with time, and their energies are 105 - 106 eV and often as much as 100 eV. The following are some of the facts that support this conclusion.

1. When an active group of sun-spots passes the central meridian of the solar disc a sporadic radioemission takes place. This consists of radiation connected with the spots themselves, and also of "radioflashes" which have a duration of l sec. to a few Metre waves are emitted by small sections of the corona neighbouring the sun-spots, and also by regions directly above the spots at a height of 25 000 - 70 000 km or more from the photosphere. radiation temperature of the emitting regions is of the order of 108 - 109 degrees. The radiation temperature order of 108 - 109 degrees. The radiation temperature of the Sun during major "radioflashes" reaches 1013 Recently, a number of authors have argued that at least part of the sporadic radio-emission of the Sun is due to relativistic electrons moving in the

CIA-RDP86-00513R000824010005-1" APPROVED FOR RELEASE: 06/13/2000

The acceleration of charged particles in the electromagnetic field of Sun-spots. (Cont.)

magnetic field of the solar atmosphere. (1 - 5). 2. An analysis (6, 7) of the changes in the cosmic radiation connected with solar activity leads to the energy of the primary particles of cosmic rays, and, following conclusions. secondly, the Sun itself appears to be a source of a

small part of cosmic rays.

3. It is known that the appearance of a chromospheric flare in an active area and near the central meridian of the solar disc, is often accompanied by magnetic storms on the Earth and also by ionospheric Thus, chromospheric flares are accompanied not only by radio-flashes and a change in disturbances. the intensity of the primary component of cosmic rays, but also by the emission of corpuscular streams. These particles have high (but not cosmic) energies.

4. Recent work (3, 8, 9, 10) has shown that the Sun emits rays with  $\lambda \sim 7$ . 100 A. It has been

estimated that this radiation can be accounted for as due to relativistic electrons if one assumes that:-

density of electrons = 250 per c.c. energy of electrons ~5 x 10 eV. magnetic field linear dimensions of radiating region in ~1010 cm. the corona.

The acceleration of charged particles in the electromagnetic field of Sun-spots. (Cont.)

It is assumed that each unipolar spot can be assigned The magnetic field due to each such dipole can be written down and as the magnetic field increases the associated electric field can be computed. It is shown that for a non-relativistic charged particle the acceleration due to the component of the electric field which is perpendicular to the magnetic field leads to an increase in the energy of the particle given by:

 $M^{T} - M^{OT} = M^{OT} \left( \frac{H^{O}}{H} - 1 \right)$ 

If the field before the sppearance of the spot is  $H \sim 1-3$  Oe. and the maximum magnetic field at the centre of the spot  $H \sim 10^{3}$ , then the energy of nonrelativisitic particles can increase by a maximal factor of 10°. It is shown that this mechanism can lead to the appearance of particles with energies of Energy losses due to deceleration by plasma, the ionisation and excitation of atoms, the inverse Compton effect, and radiation in a magnetic field, result in the fact that only these electrons which have an initial energy in excess of a certain

CIA-RDP86-00513R000824010005-1" **APPROVED FOR RELEASE: 06/13/2000** 

3(1) AUTHOR:

sov/33-36-1-8/31

TITLE:

On the Generation of Corpuscular Streams by the Magnetic Fields

ABSTRACT:

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 1, pp 65-72 (USSR)

The author considers the possibility of generation of corpuscular streams in an increasing with time non-uniform magnetic field of a unipolar group of sunspots. The most rapid particles of the coronal-chromospheric plasma belonging to the "wing" of the Maxwell distribution, for which the condition eE fulfilled, will acquire energy from the action of the induced

electric field according to  $W_{\perp} = W_{0\downarrow H_{0}} \sim 6.10^{3} \div 4.10^{5} \text{ eV}.$ 

Because of the non-uniformity of the magnetic field these particles will rise upwards and their energy W\_ will be transformed into the energy W, of motion along the magnetic lines

Card 1/2

# APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010005-1

On the Generation of Corpuscular Streams by the

sov/33-36-1-8/31

Magnetic Fields of Sunspots

of force of the spot. Particles with energy Wil ~6.103 - 4.105 eV in the region of the corona can escape from the sun and from s

There are 2 figures, and 10 references, 5 of which are Soviet,

2 English, 2 American, and 1 German.

SUBMITTED:

November 2, 1957 (initially) April 30, 1958 (after revision)

### "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010005-1

"Quide to arthropods harmful to man." Edited by V.N.Beklemishev.
Reviewed by S. Kolpakov. Zhur. mikrobiol. epid i immun. 31 no.6:
(MIRA 15:8)
140-141 Je '60.
(ARTHROFODA) (BEKLEMISHEV, V.N.)

1. 15696-63 EPR/EWP(J)/EPF(c)/FWT(m 10D re-4/Pab-1/rs-4/Pc-4/Pr-4 RM/Wd		
#33E38ION NR: AR3003602	s/00 11/63/000/ <b>0</b> 08	/0706/0706
SOURCE: RZh. Khimiya, Abs. 87267	0	83
AUTHOR: Kolpakov, S. V.	ş	
TIPLE: Investigation of the mechanical promaterial form-sheet PS-B 16	operties of the new struc	tural
TITED SCURCE: Tr. ZapSib. fil. Akad. str	r-va i arknitekt. SSSR vy	*p. 6,
TOPIO TYOS: foam sheet characteristic		
respectively. The state of the	coofies factions with st valls and coverings for A um layer of form-sheet. of PC-B, experiments wer	ructural one industrial, For the e conducted
ard 1/2	and appear to the second of th	

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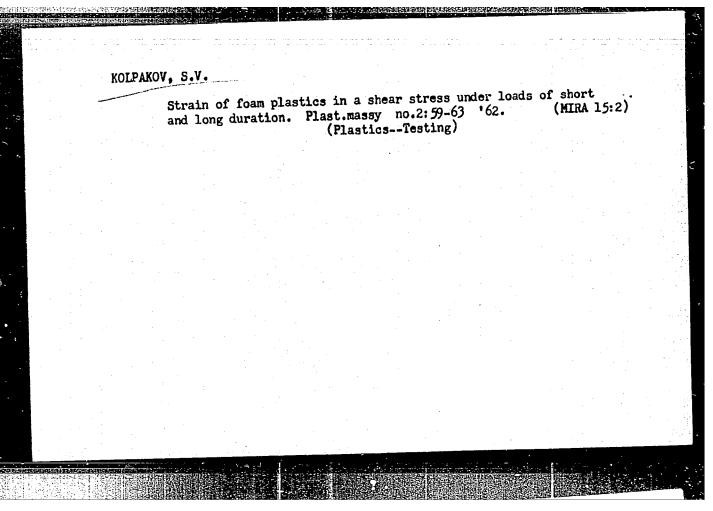
The method of the experiments was analyzed. As a result of the investigations of the mechanical properties of PS-B, the character of the deformation and collapse under momentary and prolonged loads was observed, as well as the dependence of strength on the time of operation of the load. The prolonged strength of PS-B under shear and elongation stresses is determined by the stress, wintees performance of the material over time without collapse with the fatigue deformations. The prolonged strength of PS-B under comparacterized by a stress which provides negligible fatigue deformation for the material over time. According to the results of the reformance of the material over time. According to the results of the shear, compression, and elongation is equal to 0.3-0.4 of

DATE ACQ: 12Jun63

SUB CODE: MA

ENCL: 00

Card 2/2



s/032/62/028/009/006/009 B104/B102

AUTHORS:

Panferov, K. V., and Kolpakov, S. V.

A method for torsional tests of foam plastics

TITLE:

Zavodskaya laboratoriya, v. 28, no. 9, 1962, 1121 - 1122

THAT: To achieve a more uniform distribution of the tangential stress in form plastics samples during torsional tests the authors substituted cylindrical for rectangular samples. The samples have an outer diameter of 75 mm, " wall thickness of 20 mm and a height of 50 - 80 mm, depending on the thickness of the material. For short-time torsion tests these samples are fixed by epoxide clamps in a K-6(K-6) testing machine and loaded at a rate of 1-1.5 kgm/min. The angle of torsion can be read off. During the tests, NC -1 (PS-1), TXB-1(PKhV-1), TC - 5 (PS-B) plastics and foam-polyurethane fractures like brittle materials; the fractures being helical. The  $\pi c$  -4 (P3-4) foam plastics formed necks in the central portion. For longtime tests a large disc (250 mm diameter), with a grooved periphery is attached to the front of the cylindrical specimen so as to load it with a constant torque produced by a weight hanging from a thread, wound around Card 1/2

s/191/62/000/010/008/010 B101/B186

AUTHOR:

Kolpakov, S. V.

TITLE:

Resistance of foam plastics to compressive fatique loads.

of long-duration

PERIODICAL: Plasticheskiye massy, no. 10, 1962, 49 - 51

TEXT: Endurance tests to determine the compression strength compr the critical strength ocrit of MC-1(PS-1), MC-4 (PS-4), MXE-1 (PKhV-1), and of NC-B(PS-B) plastics with the volume weights of 109 kg/m<sup>3</sup>, 39.2kg/m<sup>3</sup>, 103.0 kg/m<sup>3</sup>, and 67 = 100 kg/m<sup>3</sup> using a Schopper press at a load of 50-250 kg and a load rate of 40 kg/min. were conducted under the direction of kg and a load rate of 40 kg/min. and the definition of  $\sigma_{\rm crit}$  K. V. Panferov. For the method of determination, and the definition of  $\sigma_{\rm crit}$ see Yu. M. Ivanov, DAN SSSR, 19, no. 6 - 7 (1938) and S. V. Kolpakov, Plast. massy, no. 2 (1962). The fatigue load was 0.15 - 0.6 orit's greater loads produced a deformation > 20% already after 24 hrs. Results: At

Card 1/2

RDP86-00513R00082401

<u> </u>	EWP(j)/EPF(c)/EWT(m)		Pc-4/Pr-4 53/000/000/07	
	imiya, Abs. 8T266			66
TITUE: Mechanic	r. Tsontr. n1. in-ta vy*p. 11, 1962, 355-37	stroit. konstrukts		
TOPIC TAGS: for TRANSLATION OF A of the strength the clanning and tarely (TAP).	MESTRACT: Investigation characteristics of foam design of building strong the basis of an analythe chief stresses in the chief stres	sheet s were conducted for sheets (FS), which will be working the working tructure with he	c conditions	of THP, the
Card 1/2				

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form of	the sample and the	e mathod of test	ing were worked o	nt. In tasting	_camples
experime	ntal devices. FS	of types FS-1P	PS-4. and PKhV-1	Were tested. O	n tha
strength	experiments with	for materials a	rolonged loads or	samples of FS,	norm
0 or 0112 off.	s were suggested.	TAL MULGITATE OF	r Amerona wruca a	nm shecrr#c Rr#.	vity:
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for moments shear=2 leading kg/sq cm	ntary stress f cg/sq cm; for PS- , and for shear-?	or PS=4 (sp. gr. 1 and PKhV=1 (sp kg/sq cm; for p	40 kg/cu m) for , gr. 100 kg/cu m rolonged loads an	compression and i) for compression id relatively low	on=9
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for momer shear=2 l kg/sq cm deformat; PKhV-1 fo	ntary stress f cg/sq cm; for PS-, and for shear-7 ions for PS-4 or compression-2.	or PS-4 (sp. gr. 1 and PKhV-1 (sp. kg/sq cm; for profession sp. kg/sq cm and for kg/sq cm and for compression sp. kg/sq cm and for kg/sq cm and for compression sp. kg/sq cm and for kg/sq cm and for compression sp. kg/sq cm and for kg/sq cm and for compression sp. kg/sq cm and for kg/sq cm and	40 kg/cu m) for gr. 100 kg/cu m rolonged loads an and shear-0.7 kg/or shear-2 kg/sq	compression and i) for compression id relatively low sq cm; for PS-1 cm. Z. Ivanova	on=9
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S/804/62/000/011/004/005 AUTHORS: Panferov, K. V., Gandidate of Technical Sciences, Kolpakov, S. V., Engineer. The mechanical properties of foam-plastics and their time dependence. TITLE: Akademiya stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruktsiy. Trudy. no.11. Moscow. 1962. Issledovaniya konstruktiv-SOURCE: nykh plastmass i stroitel nykh konstruktsiy na ikh osnove. pp.355-378. The paper comprises a literature survey and a report on lab tests. Following a review of foreign literature and foreign manufacturing practice it is reported that currently the USSR produces by the press method the foam plastics (FP) ITG-1 (PS-1) and PS-4, based on polystyrene, and the FP IIXB-1 (PKhY-1) based on polyvinylchloride with a unit weight of 40-230 kg/m3. The non-press method of making polystyrene FP ICE (PSB) is under development, with a 1965 production goal of 200,000 m3. The production of foam polyurethanes shows marked growth. Costs are being reduced appreciably, and practical use in building construction is on the rise. It is proposed that in its use as the central layer in three-layer structural parels, the FP's should serve not only as heat- and soundinsulators, but should also be utilized as a structural and strength-giving member. Card 1/4

The mechanical properties of foam-plastics ...

5/804/62/000/011/004/005

To the knowledge of the authors, no long-term (LT) strength data were available by February 1960, and lab tests were undertaken on PS-1, PS-4, and PKhV-1 specimens. Shear tests: Current All-Union Standards (GOST) do not provide for a shear-testing methodology. The existing instruction no.410-52, which provides for torque tests of square specimens, is found lacking since it does not eliminate normal stresses, introduces nonuniformities, and is affected by variations in shearing stress from the specimen center to the outer fibers. Present tests employ hollow cylindrical specimens, which are described and illustrated. Specimen OD 75 mm, wall thickness 20 mm, height 50-80 mm. The specimens were cut out of FP sheets, and steel end disks of the same dram were glued onto the specimen with epoxy adhesives having a higher shear strength than the specimen. Measurements were made up to the point of the sharp increase of plastic deformation. PS-1 and PKhV-1 failed as brittle materials along a helical surface. PS-4 specimens formed a neck in their central zone. The torque-vs.-angle-of-twist curve does not exhibit any straight-line segment. Supplementary tests showed that a residual deformation in shear obtains from the very beginning of loading. It was concluded that a suitable shear-strength characteristic for FP could be the stress that corresponds to the point of breaking of the diagram of the twist-angle differences, a characteristic analogous to that proposed by Prof. Yu. M. Ivanov as a strength criterion for wood, which Ivanov terms the "plastic-flow limit" and which

Card 2/4

Mechanical properties of fiberglass-reinforced ... | 5/804/62/000/011/001/005

to failure. Information concerning group III is shown, as are also the results of long-term flexural tests for both the second and third groups. Stress-rupture data are plotted for tests lasting over 7,000 hours in flexure, and the creep curve ware shown for a number of stresses. It is concluded that standard-strength data for the various types of stressed state, which do not at present exist in the TS, a.g., in flexure and compression of KAST-V and KAST, should be represented in the future by means of transfer coefficients, i.e., ratios of the strength values for various types of stress. The investigation of the variability of the tensile strongth of the FRP KAST-V and KAST had shown that the requirements of the TS lie below the mean values of the strengths on the average by 1.8-1.9 of the limiting strength. These figures should be used as a starting point for the establishment of standard stresses for other FRP for which there are no TS at present. Coefficients of uniformity for KAST and KAST-V, as obtained in industrial tests, lie in the area of 0.71-0.95. A tentative value of 0.5 has been established to allow for the unavoidable scatter of the test data. The flexural stress-rupture coefficients for KAST-V has been assumed to be 0.55, that for glass-reinforced textolite equal to 0.55. In the long-duration tests it was found that the incrementation of the flexure in non-failing specimens came to a halt approximately after 1,200 hours. The stress-rupture coefficient for the second group was tentatively assumed to be 0.3. This somewhat lower coefficient is attributed to the inadequate stiffness of the binding substance,

Card 3/4

Mechanical properties of fiberglass-reinforced ...

5/804/62/000/011/001/005

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Card 3/4

Mechanical properties of fiberglass-reinforced ...

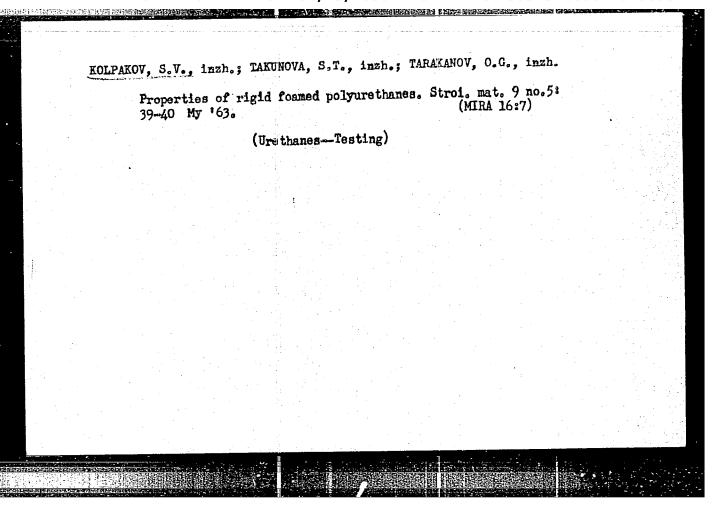
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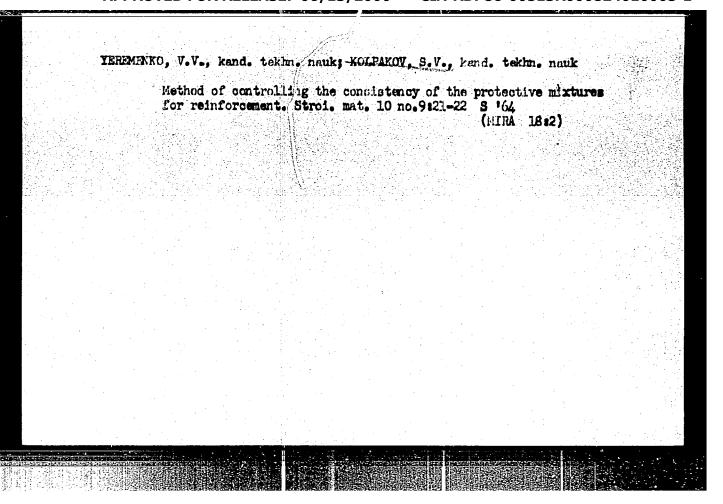
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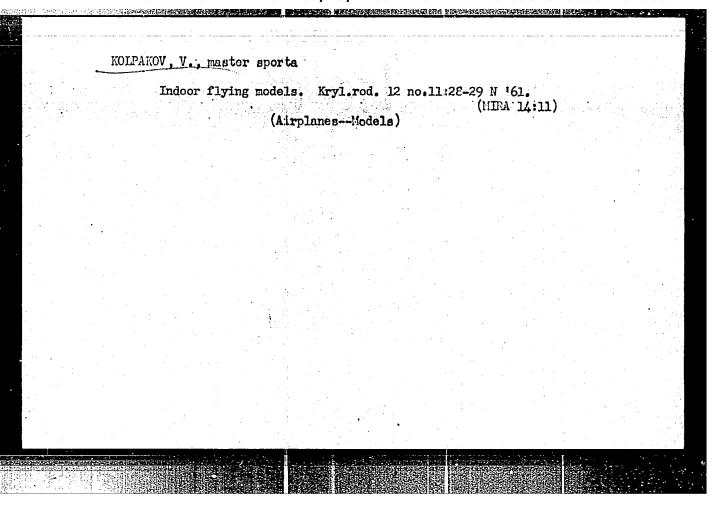
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AUTHORS: Panferov, K.	V.; Kolpakov, S. V.	.7 72	
	anical testing of form plass	ice A	
SOURCE: Plasticheskiva	massy*, 70. 8, 1963, 53-55		
TOPIC TAGS: foam plast	ics		
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KOLPAKOV, V.A., MATVEYEV, S.F.

Automatic measurement of the flow of weak nitric acid and conversion to composition by weight. Khim.prom. 2:148-151 My '60. (MIRA 13:7) (Nictric acid) (Automatic control) (Flow meters)

41810

27.1220

5/241/62/000/011/003/005 B144/B186

AUTHOR:

Kolpakov, V. A.

TITLE:

Evaluation of the fluorescence-microscope picture of blood

and bone marrow after x-ray irradiation

PERIODICAL:

Meditsinskaya radiologiya, no. 11, 1962, 50 - 53

TEXT: The effect of whole-body irradiations of 200, 500, and 700 r on the fluorescence picture of blood and bone marrow was studied in white rats to clear up the inconsistencies in published data. The blood was mixed in a blood count pipette with a fluorochrom solution of acridine orange (1:500 and 1:10000) in a ratio of 1:10. Examinations were made in the blue-violet arange with a MGF-1 (MBR-1) microscope using a dark-field condenser, a range with a MGF-1 (MBR-1) microscope using a dark-field condenser, a fluorescence-absorbing complementary MG-17 (ZhS-17) filter and a special fluorescence-absorbing complementary MG-17 (ZhS-17) filter and a special fluorescence with a 30 v, 400 w lamp, so that strong oculars could be used. Total magnification 600 to 800 times. The pH of the buffer solution was varied from 4 to 8; optimum results were obtained with a pH of 7 or 8. Color changes indicative of cell destruction were observed not only after irradiation but also when the stained blood was kept for some time in the

Card 1/2

Evaluation of the fluorescence-microscope ...

S/241/62/000/011/003/005 B144/B186

pipette or covered with a cover slip. Hence the degree of irradiation damage cannot be deduced from this phenomenon alone, but can only be evaluated by also making a careful examination of the fine structure of the blood and bone marrow cells. Since the fluorescence method is extremely sensitive to even minute variations in the examination set-up, standardization is urgently required.

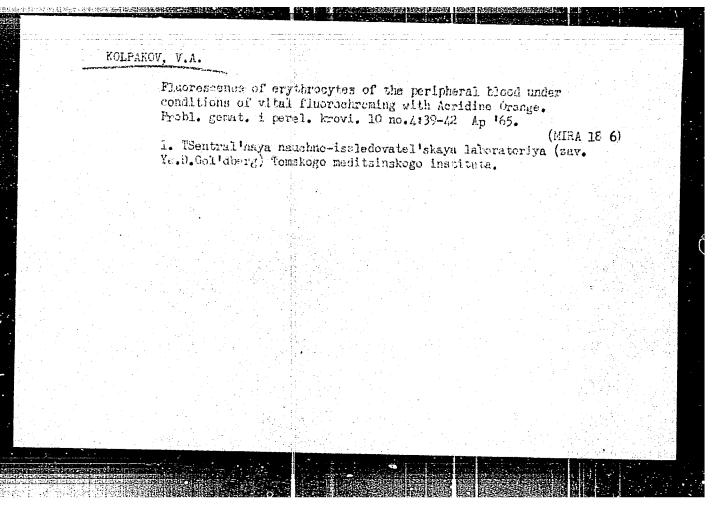
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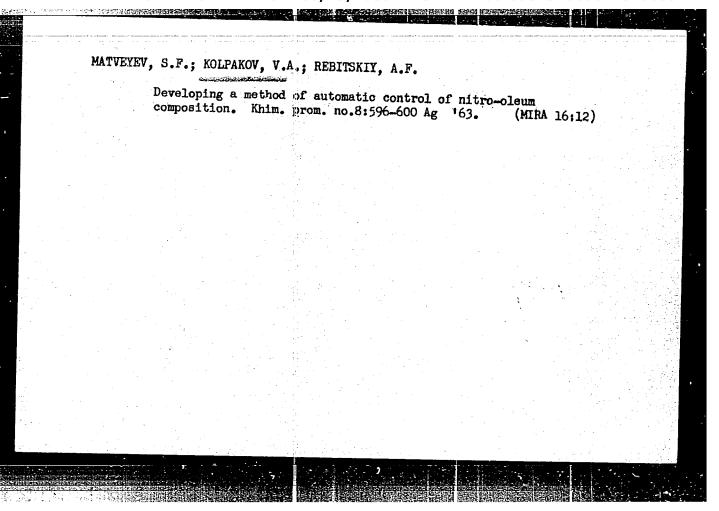
Kafedra rentgenologii i radiologii Yaroslavskogo meditsinskogo instituta (Department of Roentgenology and Radiology of the Yaroslavl' Medical Institute) (Professor M. M. Popov, Chairman)

SUBMITTED:

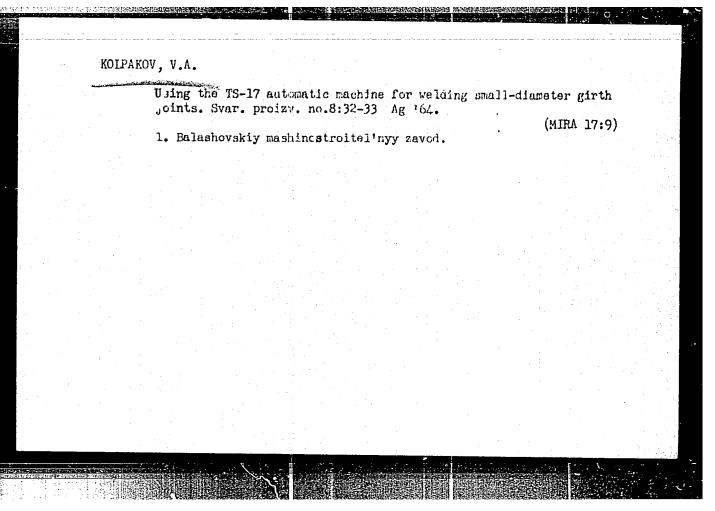
May 27, 1962

Card 2/2



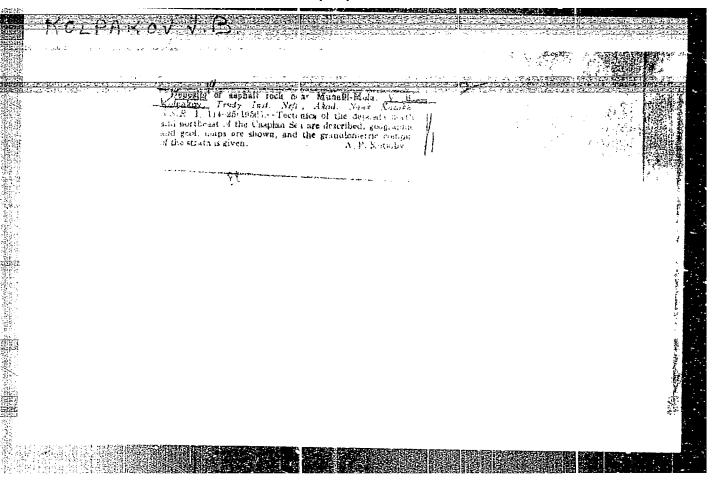


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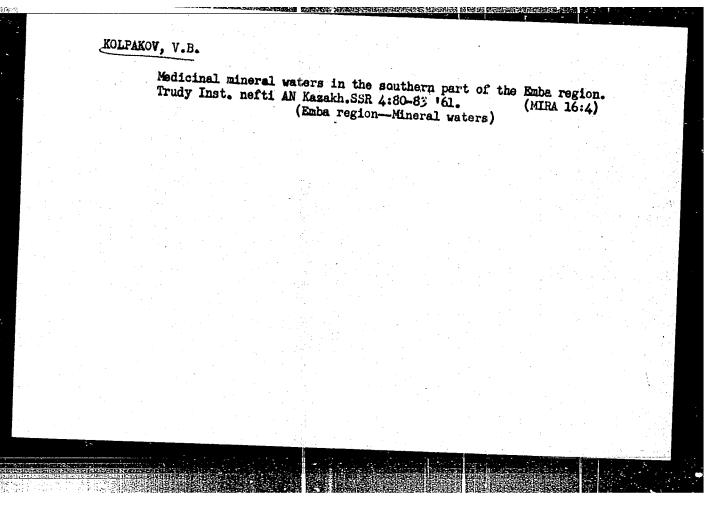


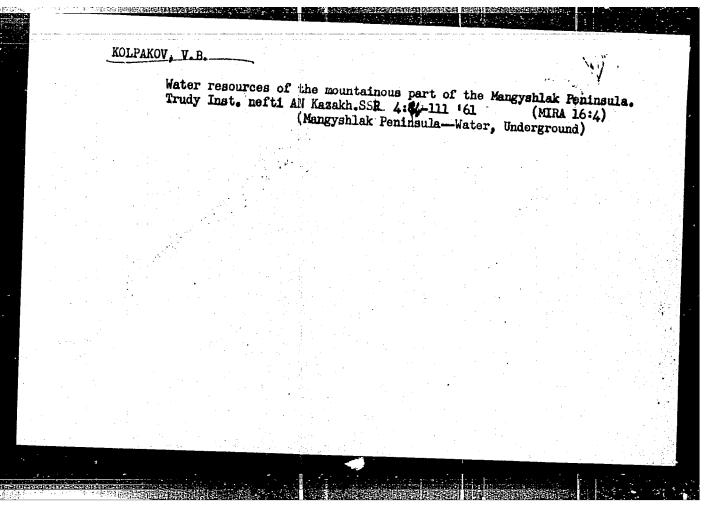
KOLPAKOV, V.A. (Moskva)

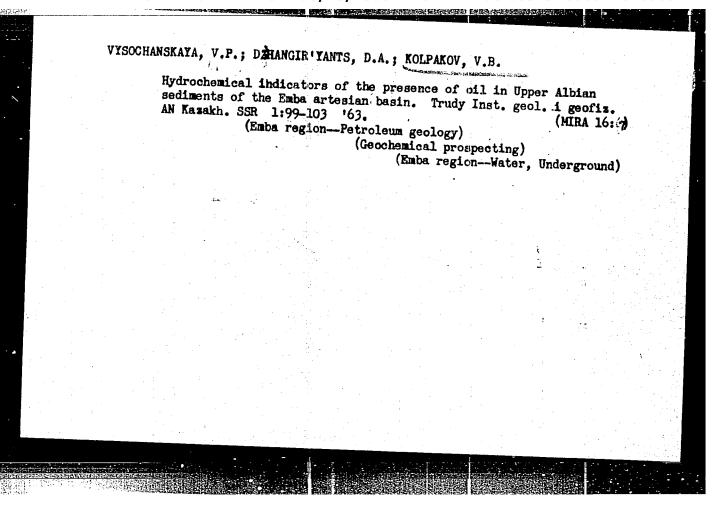
Simple device for optical printing of diapositives. Lab. delo.
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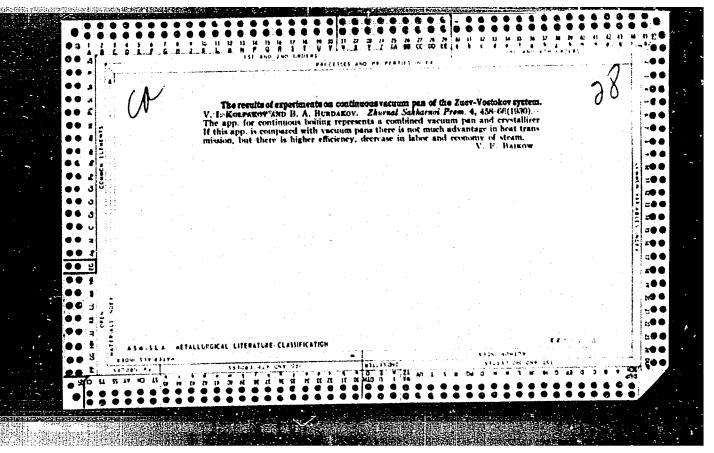
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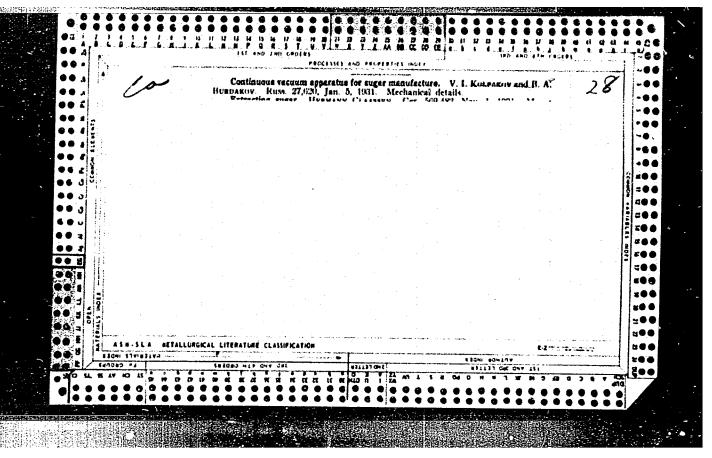






Maltha deposits on the Mangyshlak Peninsula. Trudy Inst. geol. 1 geofiz. AN Kazakh. SSR 1:16-25 '63. (MIRA 16:7) (Mangyshlak Peninsula--Maltha)





KOLPAKOV, V. I.

Semienclosed steam power-plants. Moskva, Pishchepromizdat, 1941. 71 p. (51-45332)

1. Steam power-plants. I. Kompakov, V. I., jt. au.

TJ 395.G5

KOLPAKOV, V.P.

Changing the arrangement for the inclusion of a gas offtake outlet. Gaz. prom. 7 no.3152-53 162. (MIRA 1718)

CELLY KO

AUTHOR:

Kolpakov, V.S. (Rostov, Yaroslav Oblast')

47-4-6/20

TITLE:

For the Study of the Equally Retarded Motion (K izucheniyu

ravnozamedlennogo dvizheniya)

PERIODICAL:

Fizika v shkole, 1957, No 4, page 48 (USSR)

ABSTRACT:

On the subject of equally retarded notion some Soviet textbooks recommend the use of equations which are mathematically wrong and cause certain difficulties to the students in solving problems. The author quotes in this connection the "Collection of Questions and Problems" edited by P.A. Znamenskiy. In support of the formulas suggested by the author, he states that if a body is thrown upwards, it is convenient to regard the way and the speed, which are also counted off upwards, as positive as the acceleration is directed toward the opposite side, it would be natural to regard it as a negative quantity. There are two references and 10 formulas.

ASSOCIATION:

First Secondary School. Rostov, Yaroslav Oblast' (1-ya srednyaya shkola, gorod Rostov, Yaroslavskoy oblasti)

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Card 1/1

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	USSR/Geology - Volcanoes Feb 51		-* 
	"Mysterious Crater in Patomsk Highland," V. V. Kolpakov		
	"Priroda" No 2, pp 58-61	100 (100 (100 (100 (100 (100 (100 (100	
	Kolpakov discovered crater in north west part of Patomsk high land in Bodaibinsk region of Irkutsk Oblast in the Olekma River basin. He assumes it to be volcanic cone aged only 100 to 200 years. Details are unknown. Location is shown on map.		
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ECLPAKOV, V.V., kand. sel'skokhozyaystvennykh nauk, dots.

Rifect of irrigation on the balance of water and winerals in the mutrition of sugar beets [with summary in Reglish]. Inv. 75khi no.6:93-124 '57.

(NIRA 11:3)

(Irrigation farming) (Sugar beets)

USSR/Cultivated Plants - Technical, Oleaginous, Sachariferous.

11-7

Abs Jour

: Ref Mar - Biol., No 9, 1953, 39448

Author

: Kulpakov, V.V.

Inst

: Roscow Agricultural Institute imeni K.A. Timiryazev.

Title

: The Influence of Irrigation on the Consumption of Water

and Food by the Sugar-Boot.

Orig Pub

: Dokl. losk. s.-kh. akad. in. K.A. Timiryazeva, 1957, vyp.

29, 74-80.

Abstract

: Combined results of studies of water uptake and mineral mutrition in sugar beets showed that a rational combination of mineral food and provision of water makes it possible to increase the efficiency of using irrigating water by 25-50%. The irrigation lowers the expenditure of water and of food substances by 2-3 times per harvest unit. The principal bulk of the water is consuced by sugar beets

Card 1/2

- 128 -

USSR/Cultivated Plants - Technical, Oleaninous, Sachariferous.

1-7

Abs Jour : Ref Trur - Biol., No 9, 1958, 39448

both in European and in Asiatic parts of USSR during the morths of July and August. Sugar beet receives more II and K than P. The greater part of necessary II, I and K is consumed by the sugar beet in June and July and a lesser part in August. Increased irrigation brings about an important decrease in the harmful nitrogen content in the beet. The content of water in soil must be not less than 70%. -- A.M. Smirnov.

Card 2/2

USSR / Soil Science. Cultivation. Improvement. Erosion.

J-4

Abs Jour

: Ref Zhur - Biologiya, No 16, 1958, No. 72741

Author

: Kolpakov, V. V.

Inst

: Moscow Agricultural Academy Imeni K. A. Timiryezev

Titlo

: Influence of Watering Norms on the Water-Saline Cycle

of the Soils of Prisivash, South of the Ukraino

Orig Pub

: Dokl. Moskovsk. s.-kh. akad. im. K. A. Timiryazova, 1957,

vyp. 29, 357-364

Abstract

: On the territory described, dark-chestnut and chestnut solonetz and solonchak soils are widely spread, formed by shallow ground waters at 5-8-10 m of sodium chloride. The use of autumn irrigation with norms of 1500-3000 m3/ha ensured the washing out of water-soluble salts from the soils and the increase of the fortility of the soils. The content of C1 in the 0-80 cm layer decreased by 90%, and in the 0-200 cm layer up to 7-86%. Marked washing out

Card 1/2

Moisture accumulation and utilization in upper and deep layers of acil in arid regions of the European S.S.R. [with summary in English]. Inv. TSEA no.2:145-174 '98. (MIRA 11:6) (Scil moisture)

KOLPAKOV, V.V., dots, kand. sel'skokhozysystvennykh nauk.

Droughts in forest-steppe and steppe regions of the European U.S.S.R.
[with summary in English], Isv. TSKhA no.6:131-154 '58.

(Droughts) (Steppes)

(MIRA 12:1)

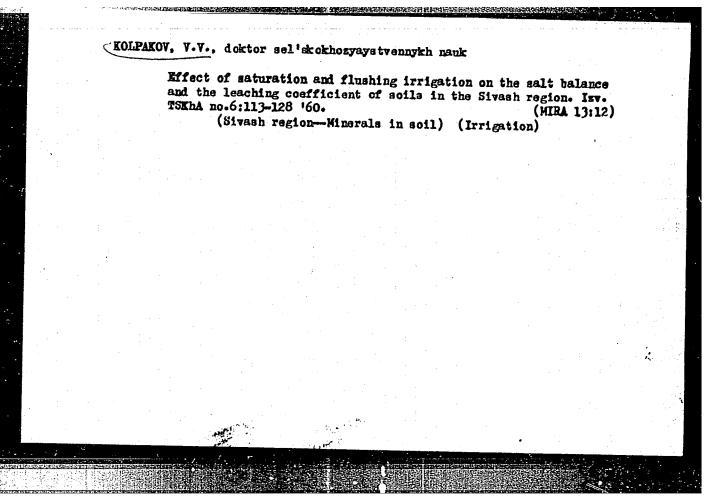
ROLPAKOV, V. V., Doc Agr Sci-(dics) "Agromeliorative analysis the and calculation of water consumption in the agricultural crops in the draught regions of the European part of the USSR." Mos, 1959. 56 pp (Mos Order of Lenin Agr Academy im K.A. Timiryazev). 110 copies. List of author's works at end of text (10 titles) (KL, 38-59, 118)

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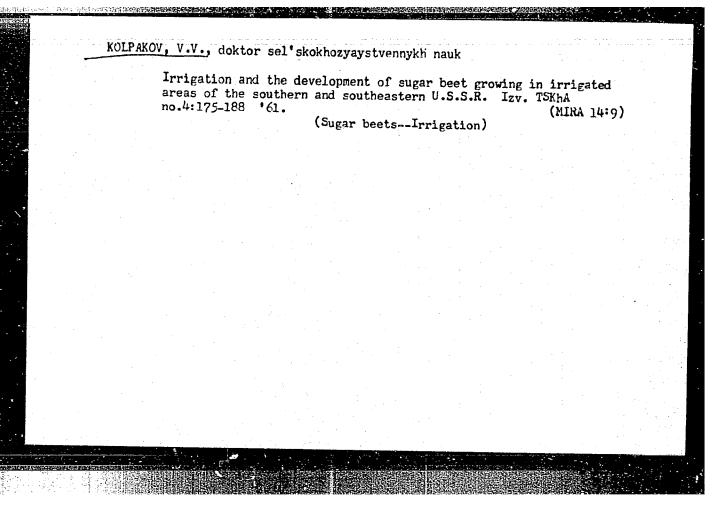
KOIPAKOV, V.V., dotsent, kand.sel'skokhozyaystvennykh nauk Effect of saturation and ordinary irrigation on the water cycle

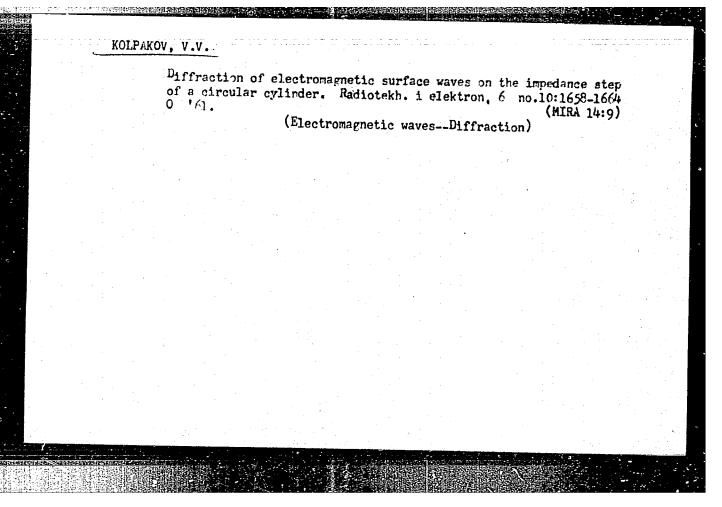
and evaporation capacity of soils of the Sivash area. Izv. TSKhA no.6:107-128 '59.
(Sivash region-Soil moisture) (MIRA 13:6)



# KOLPAKOV, V.V., doktor selskokhos, menk

How the rise in ground water level affects evaporation and the content of water-soluble salts in Sivash region soils. Isv. TSKhA no.1:132-147 '61. (MIRA 14:3) (Shivash region--Water, Underground)





39888 s/044/62/000/007/042/100 C111/C222

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AUTHOR:

Kolpakov, V.V.

TITLE:

The reflection of a plane electromagnetic wave on a semi-

bounded periodic structure of conducting plates

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 68, abstract 7B331. ("Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te", 1960, no. 39, 25-33)

TEXT: The author solves the problem of the reflection of a plane monochromatic wave on a semi-bounded periodic structure which consists of thin plates with finite conductivity. The mathematical problem consists in the determination of a function E(x,z) which in the free half space and between the plates satisfies the wave equation

$$\frac{\partial^2 E}{\partial x^2} + \frac{\partial^2 E}{\partial z^2} + k_0^2 E = 0$$
(1)

and on the plates satisfies the approximative boundary conditions for Card 1/3

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The reflection of a plane ...

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thin plates :

$$E(mb-0,z) = E(mb+0,z) = \frac{i}{Y\omega\mu_{\bullet}} \left[ \frac{\partial E(mb+0,z)}{\partial x} - \frac{\partial E(mb-0,z)}{\partial x} \right]; \quad (2)$$

here b is the period of the structure, m the number of the plate, Y a constant characterizing the conductivity of the plates. With the aid of the Green formula one obtains for the solution the integral formula

$$E(x,z) = e^{iR_{e}(x \sin \theta_{e} + x\cos \theta_{e})} - \frac{k_{e}Yz_{e}}{4} \int_{0}^{\infty} \sum_{m=-\infty}^{\infty} E(0,z') e^{imk_{e}b \sin \theta_{e}} \times H_{0}^{(1)} \left[k \sqrt{(x-mb)^{3} + (z-z')^{3}}\right]$$

For x=0,  $0 \le x < \infty$  this formula is transformed into the inhomogeneous integral equation of Wiener-Hopf, the kernel of which depends on the

Card 2/3

CIA-RDP86-00513R000824010005-1" APPROVED FOR RELEASE: 06/13/2000

The reflection of a plane

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difference of the arguments. The author solves this equation according to the method of Fok and determines the electric field on the zero plate E(0,z). Then with the aid of formula (3) the wave field in the half space z < 0 and in the structure between the plates is calculated. See also

[Abstracter's note : Complete translation.]

Card 3/3

KOIPAKOV, V.V., prof., doktor sel'skokhoz. nauk

Combining irrigation with the use of fertilizers as a decisive factor in the increase of crop yield in arid regions of the European part of the U.S.S.R. Izv. TSKHA no.5:83-105 164.

1. Kafedra melioratsii Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni Timiryazeva.

8(0)

SOV/112-59-2-2326

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 6 (USSR)

AUTHOR: Kolpakov, V. V.

TITLE: Propagation of Electromagnetic Waves Over a Periodic Structure of Conducting Plates (Rasprostraneniye elektromagnitnykh voln v periodicheskoy strukture iz provodyashchikh plastin)

PERIODICAL: Dokl. 7-y Nauchn. konferentsii, posvyashch. 40-letiyu Velikoy Oktyabriskoy sots. revolutsii. Nr 2. Tomsk, Tomskiy un-t, 1957, p 95

ABSTRACT: Propagation of an electromagnetic wave over an infinite periodic structure is considered; the structure consists of rectangular cells which are formed by intersections of two mutually perpendicular sets of plane-parallel equidistant thin conducting plates. Such a structure can represent a dielectric having losses; the dielectric properties can be varied by changing the structure parameters. The problem is solved by means of approximate boundary conditions which are determined in the article. The structure field is

Card 1/2