

MARINOV, N. A. and KHASIN, R. A.

"New Data on the Permian Strata of the Eastern Part of the Mongolian People's Republic," Dok. AN, 58, No. 2, 1947

CA

Formation of calcium and magnesium chloride artesian waters in continental sediments. N. A. Marinov. Doklady Akad. Nauk S.S.S.R. 60, 1957 (1958). Sandstones, clayey slates, conglomerates, marls, and coals of Central Asia are associated over wide regions with gypsum and subterranean salt waters which are accumulated in the deepest depressions. The chem. character of these waters is distinctly different in the peripheral parts of the basins (bi-carbonate-sulfate type), and in the central parts (with sulfate-chloride, or even purely chloride compn.). In the latter waters, Na^+ , Ca^{2+} and Mg^{2+} are particularly enriched. Tectonic dislocations, however, often bring about anomalies and even reversals of these general regularities; fossil sea water is also observed locally. Analyses of the waters show in the cation-anion enrichments with increasing depths the particular effects of diagenesis and metamorphosis of the marine sediments, in the course of geol. history. The arid climate of Central Asia is favorable to these processes to such a degree that even in depths of only 8 to 10 m. chloride waters may be observed. W. Rittel

MARINOV, N. A.

20572 MARINOV, N. A. O vertikal'noy zonal'nosti podzemnykh vod yugo-vostochnogo zabaykal'ya. Izvestiya vsesoyuz. geogr. o-va, 1949, vyp. 3, 333-37.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

MARINOV, N. A.

PA 78T31

USSR/Hydrology
Water, Underground

Jan 1948

"Vertical Zonality of the Subterranean Water of the
Northeastern Part of Central Asia," N. A. Marinov, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 8

Gives results of studies conducted to determine the
nature of the distribution of subterranean waters in
subject region. Submitted by Acad V. A. Obruchev 15
Apr 1948.

78T31

MARINOV, N. A.

USER/ Geology - Glacial action

Card 1/1 Pub. 45 - 3/16

Authors : Marinov, N. A.

Title : Ancient glaciation of Mongolia

Periodical : Izv. AN SSSR. Ser. geog. 6. 28 - 40, Nov - Dec 1954

Abstract : Mongolia is described as a mountainous country having an average level above the sea of 1,580 meters. The arrangement of the mountain ranges is indicated, such as their northwest-southeast direction in the west and their northeasterly trend in the east. The various regions are taken up separately with a notation of the glacial action observed for each by scientists whose findings are cited. Twenty-three references; 20 Russian and Soviet; 2 German; 1 USA (1881 - 1954). Map.

Institution: All-Union Institute of Geological Engineering and Hydrogeology

Submitted:

SCIENTIA MEDICA Sec.9 Vol.11/6 Surgery June 57
MARIS F.

2917. MARIS F. Klin. Plast. Chir. LFUK, Bratislava. Kozné laloky v plastickej a reparačnej chirurgii. Skin flaps and reconstruction surgery
BRATISLAVSKE LEKARS. LISTY 1956, 36(II)/5 (270-276) Illus. 3

On the basis of experiences with 496 plastic flaps which were performed during 5 yr. of existence of the Clinic of Plastic Surgery of the Medical Faculty of Komensky's University in Bratislava, the author discusses the possibilities and indications for the use of skin flaps in plastic and reconstruction surgery. He defends the standpoint of removal of the major part of fat from the flaps, as for the nourishment of the flap the vascular plexus in the dermis and subdermal layer is sufficient. According to the experiences of the author, leaving only a thin layer of subcutaneous fat speeds up and increases the biological and functional value of the flap, and subsequent operations for the removal of excessive fat are avoided.

MARIS, F.

Haemolytic disease of the newborn and the take of skin homografts in children. Acta chir. plast. 4 no.4:318-325 '62.

1. Clinic of Plastic Surgery, Medical Faculty, Comenius University,
Bratislava (Czechoslovakia) Director: Doc. S. Demjen, M.D.
(SKIN TRANSPLANTATION) (ERYTHROBLASTOSIS, FETAL)

MARIS, F.

Partial tolerance of homotransplantation of the skin in children after
exsanguinating transfusion. Bratisl. lek. listy 42 no.10:581-590 '62.

1. Z Kliniky plastickej chirurgie Lek. fak. Univ. Komenskeho v
Bratislave, prednosta doc. MUDr. S. Demjen.
(SKIN TRANSPLANTATION) (BLOOD TRANSFUSION)
(BLOOD GROUP INCOMPATIBILITY)

MARIS, F.

CZECHOSLOVAKIA

MARIS, F.

CSSR

Clinic for plastic surgery, Medical Faculty of Comenius University
(Klinika plastickej chirurgie Lek.fak. Univ. Komenskeho), Bratislava,
chief: docent S. Demjen, MD

Bratislava, Bratislavské Lekárske Listy, No 3, 1963, pp 170-175

"Scalping Trauma of the Foot and Therapeutic Procedures for its Repair"

MARIS, P.; JURKOVIC, I.; KOHUT, P.; SUCHANEK, A.

Re-innervation of free and flap skin grafts. Acta chir. plast. 5
no.1:57-64 '63.

1. Clinic of Plastic Surgery, Medical Faculty, Comenius University,
Bratislava (Czechoslovakia) Director: Doc. Stefan Demjen, M.D.
(SKIN TRANSPLANTATION) (SENSATION)

CZECHOSLOVAKIA

MARIS, F.

Clinic of Plastic Surgery of the Medical Faculty of Komensky
University (Klinika plastickej chirurgie Lek. fak.
Univ. Komenskeho), Bratislava

Bratislava, Bratislavske lekarske listy, No 10, 1963, pp 608-
614

"Evaluation of the Mode of Takes and Survival of Skin Homo-
transplants: the Participation of the Elastica of the
Corium."

MARIS, F.

Correlation of sensory and vegetative reinnervation of skin
transplants on the hand. Rozhl. chir. 43 no.5:322-327 My'64

1. Klinika plastickej chirurgie Lekarskej fakulty UK (Uni-
versity Komenskeho) v Bratislave; prednosta: doc. dr. S. Demjen.

MARIS, F.

Influencing the type of sweating during the transfer of skin
transpiration from the thermogenic to the psychogenic region of
perspiration. Acta chir. orthop. trauma. cech. 31 no.6:497-500
D '62.

1. Klinika plastickej chirurgie Lekárskej fakulty University
Komenského v Bratislave (veduci doc. dr. S. Demjen).

MARIS, F.

Vegetative innervation of skin transplants evaluated by the
ninhydrin sweat test. Bratisl. lek. listy 44 no.7:398-406
15 0 '64.

1. Klinika plastickej chirurgie Lek. fak. Univerzity Komenskeho
v Bratislave, (vedouci doc. MUDr. S. Demjen).

MARIS, F.

Discrimination sensitivity as an index of functional adaptation
in skin transplantation. Bratisl. lek. listy 44 no.6:329-
336 30 S '64.

1. Klinika plastickej chirurgie Lek. fak. Univerzity Komenskeho
v Bratislave, (veduci doc. MUDr. S. Demjen).

MARIS, F.

Evaluation of functional adaptation of skin grafts to the hand by tactile discrimination. Acta chir. plast. (Praha) 6 no.4:313-320 '64.

1. Department of Plastic Surgery, Medical Faculty, Comenius University, Bratislava (Czechoslovakia) (Director: Doc. S. Demjan, M.D.).

RUMANIA/Chemical Technology. Chemical Products and Their Applications. Chemical Processing of Natural Gases and Petroleum. Motor and Rocket Fuels. Lubricants. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20964

Author : Ulcenco, N.; Maris, I.; Frenkel M.;
Stanescu, C., Dragutan, V.

Inst : -

Title : Comparative Tests of 413, 312 and State
Specification-5304 Oils on KD-35 Tractor
Engines.

Orig Pub : An Inst. cercetari mecaniz. si electrif.
agric., 1958, 2, 164-178

Abstract : Oil (O) tests were conducted on KD-35
engines: bench-test idling for 1000 hours
and use for 1600 hours. The hard-to-get

Card : 1/2

RUMANIA/Chemical Technology. Chemical Products
and Their Applications. Chemical Pro-
cessing of Natural Gases and Petroleum.
Motor and Rocket Fuels. Lubricants.

H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20964

O 413 which is a standard, O 312 with 3
percent addition of Azniya-4 and O State
Spec.-5304 (O 209 with 3 percent addition
of Azniya-4) were tested. O State Spec.-
5304 showed the best results, and is re-
commended for use. Proposals were also
made for the improvement of the method
of long tests of O in engines. -- A.
Ravikovich

Card : 2/2

14-102

MARIS, MARIUS.

Maris, Marius. Instalatii de centralizare electrodinamice. [Ed. 1]
Oficiul de Presa, Editura si Documentare CFR, 1950. 344 p. [Electrodynamic
Centralization appliances. illus.]

SO: Monthly Lists of East European Accessions, LC, Vol. 3, No. 1, Jan. 1954, Ucl.

MARIS, M.

Basic solutions adopted in planning and mounting centralized electric block commands with relay in an experimental station. p. 27

REVISTA GAILOR FERATE. (Calle Ferate Romine) Bucuresti, Rumania; Vol. 7, no. 1, Jan. 1959

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 9, ^{Sept.} 1959

Uncl.

MARIS, M.

Centralized shunting at large railroad stations. p. 407.

REVISTA CALOR FERATE. (Calle Ferate Romine) Bucuresti, Rumaria.
Vol. 7, no. 8, Aug. 1959.

Monthly list of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960

Uncl.

MARIS, Marius, ing.

Automatic section block for double-line railway on electrified lines.
Rev caller for ll no.10:562-564 0 '63.

Maric, P.

✓
Country: Rumania

Academic Degree: Engineer ✓

4
Affiliation: Agronomic Institute (Institutul Agronomic), Timisoara.

Source: Bucharest, Probleme Zootehnice si Veterinare, No 0, aug 1961, pp 33-39.

Title: "A Few Problems Concerning Merinos-Breeding in the Banat Field."

Co-authors:

- ✓ MARIC, P., Engineer, Agronomic Institute, Timisoara.
- ✓ MATEAS, S., Engineer, Agronomic Institute, Timisoara.
- ✓ KALIS, P., Engineer, Agronomic Institute, Timisoara.

MARISCHI, Visnete [Marischi, Vicente]

The struggle of the working class and people of Argentina. Vsem,
prof.dvizh. no.6:10-14 Je '62. (MIRA 15:7)

1. Sekretar' Dvizheniya za yedinstvo i koordinatsiyu deystviy
profsoyuzov.

(Argentina--Trade unions--Congresses)
(Argentina--Politics and government)

MARISEK, A.

TECHNOLOGY

periodicals: KOZARSTVI Vol. 8, no. 7, July 1958

MARISEK, A. Is it possible to increase production of shoes made of chrome tanned faced leather? p. 200.

Monthly List of East European Accessions (ELAI) LC Vol. , no. 5
May 1959, unclass.

TYURIN, N.A.; MARISANIKO, G.A.

Use of electric aerosol devices in the treatment of bronchial
asthma and chronic pneumonia in children. Sov. med. tech. no.3:
139-142 '65. (MIA 19:1)

MARISEV, K.K.

Cleaning boiler fire tubes with compressed air. Sbor. rats.
predl. vnedr. v proizvod. no.2:48 '61. (MIRA 14:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Boilers--Maintenance and repair)

ACCESSION NR: AP4031146

S/0056/64/046/004/1245/1256

AUTHORS: Guzhavin, V. M.; Kliger, G. K.; Kolganov, V. Z.; Lebedev, A. V.; Marish, K. S.; Prokoshkin, Yu. D.; Smolyankin, V. T.; Sokolov, A. P.; Soroko, L. M.; Ts'ui Wa-ch'uang

TITLE: Pion production in pp collisions at 650 MeV energy

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1245-1256

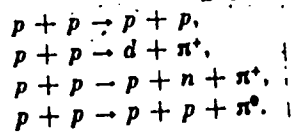
TOPIC TAGS: pion production, pion pion interaction, resonance scattering, Mandelstam representation, isotopic invariance

ABSTRACT: A liquid-hydrogen bubble chamber was used to investigate pion-nucleon correlations and the angle and energy distributions of pions produced by 650-MeV protons. The investigation was motivated by the few unanswered questions which the Mandelstam phenomenological resonance model (Proc. Roy. Soc. v. A244, 491, 1958) does not supply. Among these questions are the possibility that isospin is not con-

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ACCESSION NR: AP4031146

served and the role of the $(3/2, 3/2)$ resonance in pion production. Four reactions are investigated



The results of the investigation indicate that the experimental angular distributions of neutral and charged pions are consistent with the assumption of isotopic invariance. The contributions of πN -sub-system states with isospin $T_{\pi N} = 1/2$ and $3/2$ are measured and found to be $72 \pm 3\%$ in the latter case. The cross sections, the angular distributions, and energy spectra of the particles were determined by methods free of the influence of systematic errors inherent in experiments using particle counters. In addition, angle and energy

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ACCESSION NR: AP4031146

correlations were obtained in the three-particle processes (3) and (4); these characteristics could not be obtained by earlier procedures. The liquid-hydrogen bubble chamber makes it possible to carry out an exhaustive study of all pp scattering processes in a single experiment. It was confirmed that the cross section for pion pair production in this energy range is negligible. "In conclusion we thank the technicians and laboratory assistants for good operation of the liquid-hydrogen bubble chamber, the scanning group of ITEF headed by D. I. Tumanova, the scanning group of OIYaI who reduced the photographs, and also Ye. M. Landis and Ye. S. Gal'pern for setting up the program and performing the calculations on the electronic computer." Orig. art. has: 14 figures, 21 formulas, and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics, GKAE); Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of

Card 3/5

ACCESSION NR: AP4031146

Nuclear Research)

SUBMITTED: 14Nov63

DATE ACQ: 07May64

ENCL: 01

SUB CODE: GP, NP

NR REF SOV: 013

OTHER: 003

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ACCESSION NR: AP4031146

ENCLOSURE: 01

Comparison of pion energy spectra

Number of cases

(interval)	T _{п.} MeV. (интервал)	Число случаев		$\frac{N(\cos^2 \theta_{\pi^+} < 1/2)}{N(\cos^2 \theta_{\pi^+} > 1/2)}$
		$N(\cos^2 \theta_{\pi^+} > 1/2)$	$N(\cos^2 \theta_{\pi^+} < 1/2)$	
	0-20	4	10	$1,8 \pm 0,5$
	20-40	11	17	
	40-60	18	34	$2,2 \pm 0,4$
	60-80	13	33	
	80-100	18	52	$1,9 \pm 0,3$
	100-120	26	31	
	120-140	28	41	$1,7 \pm 0,3$
	140-160	11	27	
	160-180	0	1	
	0-180	129	246	$1,9 \pm 0,2$
Average energy	Средняя энергия, MeV	93 ± 5	90 ± 5	

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L 13945-65 EWT(m)/T/EWA(m)-2 AFWL/SSD/ASD(a)-5/ESD(dp)/ESD(t)
ACCESSION NR: AF4047888 S/0055/64/047/004/1228/1231

AUTHORS: Guzhavin, V. M.; Kliger, G. K.; Kolganov, V. Z.; Lebedev, ³
A. V.; Marish, K. S.; Musin, M. A.; Prokoshkin, Yu. D.; Smolyankin,
V. T.; Sokolov, A. P.; Soroko, L. M.; Ts'ui, Wa-ch'uang

TITLE: Elastic proton scattering¹⁹ at 650 MeV

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47,
no. 4, 1964, 1228-1231

TOPIC TAGS: proton proton scattering, elastic scattering, angular
dependence, scattering cross section, differential cross section

ABSTRACT: A total of 1767 events of elastic p-p scattering at 650
MeV was registered with the liquid-bubble chamber of the I'EF,
placed in the beam of protons with energy 650 ± 5 MeV. The equip-
ment and procedure were described by the authors elsewhere (ZhETF
v. 46, 1245, 1964); the proton scattering angles were measured with

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L 13945-65

ACCESSION NR: AP4047888

3

the LYaP reprojector (A. T. Vasilenko et al. PTE, No. 6, 34, 1957). A statistical comparison of the present data with earlier results is made. The angular dependence of the differential cross section, averaged over angle intervals of 3° , is deduced from the results and approximated by means of an empirical polynomial. "In conclusion we thank M. P. Baldin for help with the measurements on the reprojector and microscope, and L. I. Lapidus for a discussion of the results." Orig. art. has: 2 figures, 2 formulas, and 1 table.

ASSOCIATION: Ob'yedinenny*y institut yaderny*kh issledovaniy
(Joint Institute of Nuclear Research)

SUBMITTED: 30Apr64

ENCL: 00

SUB CODE: NP

NR REF SOV: 006

OTHER: 001

Card 2/2

MARISHCHENKO, M. V.

Marishchenko, M. V.

"Investigation of the Operation of BCh-1 Pneumatic Loader." Min Higher Education USSR. Dnepropetrovsk Order of Labor Red Banner Mining Inst imeni Artem. Chair of Mine Construction. Dnepropetrovsk, 1955 (Dissertation for the degree of Candidate in Technical Science)

SO: Knizhnaya letopis' No. 27, 2 July 1955

MARISHCHENKO, M.V., kand.tekhn.nauk; BUREGO, N.S., inzh.

Mine water pumping stations with one set of pipes.
no.8:20 Ag '60.

Shakht. stroi.
(MIRA 13:11)

(Mine drainage)

MARISHCHENKO, M.V., kand.tekhn.nauk; BUREGO, N.S., gornyy inzh.

Efficient method of shaft sinking in the Western Donets Basin area.
Ugol' Ukr. 5 no.2:31 F '61. (MIRA 14:3)

1. Dnepropetrovskiy gornyy institut (for Marishchenko). 2. Trest
Krasnoarmeyakhtostroy (for Burego).
(Donets Basin—Shaft sinking)

MARISHCHENKO, V. b

Complete the list of professions requiring special work clothes.
Sakh. prom. 31 no.5:74-75 My '57. (MIRA 10:6)
(Work clothes)

Аппаратный отдел
MARISHCHENKO, V.V.

Rapid replacement of broken spring housings of the inner equalizing bars of TL-2-TSINS scrapers mounted on DT-54 and MATI tractors.
Sakh. prom. 31 no.11:60-61 N '57. (MIRA 11:1)

1. Sakharnyy zavod imeni Il'icha.
(Sugar industry--Equipment and supplies)

MARISHCHENKO, V.V.

Replacing valves of Gramm-VI steam engines. Sakh. prom. 32 no.4:43
Ap '58. (MIRA 11:6)

1.Sakharnyy zavod imeni Il'icha.
(Steam engines) (Valves)

BAGLYUK, A.D.; BANDYLOV, A.P.; MARISHCHENKO, V.V.; ANUCHIN, P.P.;
KRASNOSLOBODTSEV, N.A.; ~~SAKON, P.P.~~; ROZDOV, Ye.A.; KHOMENKO,
V.S.; MAKSIMUK, P.S.

Survey of letters and articles. Sakh. prom. 33 no.2:58-60
P '59. (MIRA 12:3)

1.Kamenskiy sakharnyy zavod (for Baglyuk). 2.Sokolovskiy sakharnyy zavod (for Bandylov). 3.Yagotinskiy sakharnyy zavod imeni Il'icha (for Marishchenko). 4.Uzinskiy sakharnyy zavod (for Anuchin). 5.Novo-Troitskiy sakharnyy zavod (for Krasnoslobodtsev). 6.Ukrgiproved (for Sakon). 7.Khutor-Mikhaylovskiy rafinadnyy zavod (for Kozlov). 8.Shpolyanskiy sakharnyy zavod (for Khomenko). 9.Kupyanskiy sakharnyy zavod (for Maksimuk).
(Sugar industry) (Sugar beets)

MARISHCHENKO, V.V.

Faster and cheaper repairs for the TL-2-TsIES sugar beet loader mounted on a DT-54 tractor. Sakh. prom. 33 no.11:49-50 B '59 (MIRA 13:3)

1. Yagotinskiy sakharanyy zavod.
(Sugar industry--Equipment and supplies)

MAKEYEV, G., podpolkovnik, letchik-instruktor vtorogo klassa; MARISHCHUK,
V., mayor

Instructor and cadet. Vest. Vozd. Fl. no.12:49-51 D '61.
(MIRA 15:3)
(Flight training)

I 11378-67 EWT(1) SCTB DD/GD

ACC NR: AT6036502

SOURCE CODE: UR/0000/66/000/000/0070/0071

AUTHOR: Bondarev, Z. V.; Gurchich, G. I.; Dzhangarov, T. T.; Yegorov, V. A.; 20
Marishchuk, V. L.; Rassvetayev, V. V.; Shkurdoda, V. A.

ORG: none

TITLE: Problem of the functional interaction of analyzers (visual, auditory, and tactile) in flight crews during long flights

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 7C-71

TOPIC TAGS: visual analyzer, auditory analyzer, proprioception, human physiology, space physiology

ABSTRACT:

The input capacities of visual, auditory, and tactile analyzers were investigated in 24 crew members during nine long flights. Tests were conducted on a special apparatus which supplied light, sound and tactile stimuli in random order, to which the subject responded by pressing the appropriate button as quickly as possible. The following indices of analyzer function were used: time of a simple motor re-

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ACC NR: AT6036502

action, time of reaction with choice, number of errors, amount of information processed, input (or traffic) capacity, and time required for processing one unit of information. It was found that the input capacity of the visual analyzer increased gradually in the first 9 hrs of flight, and then decreased by the 15th hr. However, the input capacity of the auditory analyzer decreased regularly during the entire flight. The input capacity of the tactile analyzer increased (with some variations) until the 12th hr, and then decreased to initial levels.

The gradual increase in input capacities observed in visual and tactile analyzers in the first 9--12 hrs of flight is probably due to adaptation of the organism to new conditions, with increased analyzer lability. The subsequent decrease in input capacity is caused by fatigue, first noticed in crew commanders. The high noise level in the aircraft contributed strongly to the decrease in auditory analyzer input capacity. Characteristically, the greatest shifts in auditory function were observed in commanders and radio operators, who are responsible for external and internal radiocommunications. The visual analyzer is kept in a continual state of stress by the necessity for constant monitoring of many instruments. In the auditory analyzer inhibitory processes are developed in the cortex due to

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I 11378-67

ACC NR: AT6036502

negative induction. The tactile analyzer showed signs of fatigue later than the other two, which suggests expanded use of this analyzer to process necessary information during long flights. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3

egk

MARISHCHUK, V.T., inzhener-elektrik

Improving the control circuit of cement unloaders. Transp.
stroi. 12 no.9:52 S '62. (MIRA 16:2)
(Loading and unloading)

MARISHCHUK, V.T., inzh.

Emergency signal system on worm conveyers. Transp. stroi.
13 no.2:51-52 F '63. (MIRA 16:3)
(Conveying machinery--Safety appliances)

BONDARENKO, P.M., inzh.; MARISHCHUK, V.T., inzh.; PANOV, I.P., inzh.

Method of manufacturing reinforced concrete rings with a 3.5
diameter. Transp.stroi. 13 no.9:65-66 S '63.

(MIRA 16:12)

MARISHCHUK, V.T., inzh.

Speed control relay in the system for protecting belt conveyors
from overloading. Transp. stroi. 14 no.11:55-56 N '64.
(MIRA 18:3)

MARISKA, F.

"Some Questions Concerning the Mechanization of Ensiling."

p. 25 (Kooperativno Zemedelie, No. 6, June 1958, Sofia, Bulgaria)

Monthly Index of East European Accession (EEAI) LC, VOL. 7, No. 11,
Nov. 1958

MARISOV, B.P., inzh.

Over-all mechanisation of loading and unloading operations in the
Moscow southern harbor. Proisv.-tekh. sber. no.2:61-63 '59.

(MIRA 13:10)

1. Moskovskiy Yuzhnyy port.
(Moscow---Harbors) (Cargo handling---Equipment and supplies)

MARISOV, B. P.

Let us be ready to greet the 22d Congress of the Communist Party of the Soviet Union. Rech.transp. 20 no.6:30 Je '61. (MIRA 14:6)

1. Nachal'nik Moskovskogo Yuzhnogo porta.
(Inland water transportation)

RUMANIA / Chemical Technology. Chemical Products and H-24
Their Application. Chemical Wood Products.
Industrial Hydrolysis.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2604.

Author : Pavelescu, I. M., Marisov, N.

Inst : --

Title : The Testing of Various Methods Used in Tapping
Spruce.

Orig Pub: AN Inst. cercetari si experim. ind. lemn. si
hirt., 1953, No 13, 171-194.

Abstract: A comparison testing during the course of one
season on various methods for tapping spruce plan-
ting demonstrated that the method of strips in a
zigzag is more effective as compared with tapping
by means of lengthwise strips, simple zigzag and
"fishbone" cuts.

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MARISOV, N.

Execution, in the time of vegetative repose, of preparatory operations for resin tapping from spruce tree stands. p. 35.
(RIVESTA PADURILOR. RUMANIA. Vol 71 (i. e 72) no. 1, Jan. 1957.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

MARISOV, V.

"Guided Missiles (Construction and Methods of Employment)" by Maj. Gen. of Engr Tech Service
V. Pugachev and Engr Major V. MARISOV

SO: Krasnaya Zvezda, 15 February 1955.

MARISOV, V. (Lecturer, Engr., Bach.Tech.Sci.) and PUGACHEV, V. (Prof.Engr. D Major Gen.)

"Guided Missiles," Krasnaya Zvezda, later reprinted in Skrzydlata Polska (Winged Poland), No.17, pp 8 and 9, 1955

Translation of an extensive summary D 311976, 1 Sep 55

The authors describe various kinds of guided missiles, but fail to supply any details or data. Anti-aircraft guided missiles are briefly mentioned and there is no word about two-stage missiles or air-to-air missiles. No particular missile is specified except the B-61 "Matador".

MARISOV, V. ^{Dr. Sc.} Maj. Cand. Tech. Sci., Docent; PUGACHEV, V., Maj. Gen. Eng-TEch. Service, Dr. Tech. Sci., Professor

"Installation and Methods of Application of Guided Missiles," from the book, Modern Military Technology, 1956, page, 26.

Translation 1114585

86-1-18/30

Missile
AUTHOR: Marisov, V.I. Eng Lt Col, Docent, Candidate of
Technical Sciences

TITLE: Flight Dynamics of Guided Missiles (Dinamika poletov
upravlyayemykh snaryadov)

PERIODICAL: Vestnik Vozdushnogo Flota, 1958, Nr 1, pp. 59-65 (USSR)

ABSTRACT: In this article the author describes the guidance of
several types of missiles. He gives the definition of the
"method of guidance" and explains why the missiles cannot
be launched from any arbitrarily selected point. Explains
the meaning of "zone of possible attacks" from which an
aerial combat missile can be launched against a group of
targets. The first method is the method of direct
guidance (metod pryamogo navedeniya) which is based on the
principle that the axis of the missile during the guiding
process continuously points in the direction of the target.

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Flight Dynamics of Guided Missiles (Cont.)

86-1-18/30

Next is the pursuit method (metod pogoni). Further, the author explains a more advanced method of guidance, which is "guiding with a constant angle of lead" (navedeniye s postoyannym uglom uprezhdeniya). All these methods are effective against stationary targets. The author points out that looking from the theoretical point of view the best method of self-guidance would be the method by which the velocity vector of a missile can be directed at any moment to the proper instantaneous lead point. It is the method of parallel approach (metod parallel'nogo sblizheniya). The deficiency of this method lies in the complex control system. For teleguided missiles the author gives the "method of coincidence" or the "method of three points" (metod sovmeshcheniya ili metod trekh tochek), which is the simplest one. The second method of guidance of telecontrolled missiles, given by the author, is the "angular method" (uglovoy metod). The author also tells briefly about the guidance of telecontrolled missiles by means of television control system. There are 6 diagrams.

AVAILABLE: Library of Congress

Card 2/2

KUCHEROV, Ivan Kirillovich; MARISOV, Vladimir Illerionovich; SHORIN,
A.M., polkovnik, red.; MYASNIKOVA, T.F., tekhn. red.

[Guided missiles; according to foreign data] Upravliaemye
snariady; po inostrannym dannym. Moskva, Voen.izd-vo M-va
obor.SSSR, 1959. 295 p. (MIRA 12:12)
(Guided missiles)

REZNIKOVA, O.Yu.; MARISOVA, A.P.; GORELOVA, I.L.

Bacterial picture in pneumonias in children and resistance of
Pneumococcus to sulfapyridine and penicillin. First report:
Significance of Pneumococcus in pneumonia in children. *Pediat-*
riia no.2:22-26 Nr-Ap '54. (MLRA 7:6)

1. Iz Rostovskogo nauchno-issledovatel'skogo instituta epidemio-
logii, mikrobiologii i gigeny (dir. dotsent A.A.Velikiy)
(PNEUMONIA, bacteriology,
*Pneumococcus in child.)
(PNEUMOCOCCAL INFECTIONS,
*pneumonia in child.)

FD-2305

USSR/Medicine - Diphtheria

Card 1/1 Pub 148 - 6/36

Author : Marisova, A. P.

Title : The role of the phagocytic factor in the insusceptibility of the organism to diphtheria (Comm 1)

Periodical : Zhur. mikro. epid. i immun. No 2, 24-25, Feb 1955

Abstract : Phagocytosis following experimental ocular infection of guinea pigs with diphtheria was investigated.

Institution : Rostov Institute of Epidemiology, Microbiology, and Hygiene

Submitted : July 1, 1954

MARISOVA, A. P., Cand of Med Sci -- (diss) "Phagocytosis during diphtheria."
Rostov-on-Don, 1957, 17 pp (Rostov State Medical Institute) 200 copies
(KL, 34-57, 90)

MARISOVA, A.P.

Determination of the toxigenicity of diphtherial cultures on a solid medium. Zhur. mikrobiol. epid. i immun 28 no.2:14-16
Y '57 (MLRA 10:4)

1. Iz Rostovskogo instituta a epidemiologii, mikrobiologii i gigiyeny.

(CORYNEBACTERIUM DIPHTHERIAE, culture
on solid medium, determ. of toxigenicity)

MARISOVA, A.P.; KARNITSKAYA, N.V.; KONDRATENKO, V.I.; VOLCHANSKAYA, M.A.;
PRIYMA, N.I.; SHOVKUN, A.G.; MOSKALENKO, Ye.P.; MUZYKOVA, N.F.;
EL'KIND, R.A.

Study of the reactogenic properties and epidemiological effectiveness
of the whooping cough-diphtheria vaccine in Rostov-on-Don. Zhur.
mikrobiol., epid. i immun. 32 no.12:8-12 D '61. (MIRA 15:11)

1. Iz Rostovskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(~~ROSTOV-ON-DON~~ WHOOPING COUGH ~~PREVENTIVE INOCUALTION~~)
(~~ROSTOV-ON-DON~~ DIPHThERIA ~~PREVENTIVE INOCULATION~~)

FERDINAND, Ya.M.; MARGULIS, L.A.; BRAYNINA, R.A.; DMITRIYEVA-
RAVIKOVICH, Ye.M.; KOVALEVSKAYA, I.L.; MYASNENKO, A.M.;
IVANOVA, L.M.; TELESHEVSKAYA, E.A.; MARISOVA, A.P.;
KOVALEVA, N.S.

Methodology of studying the epidemiological effectiveness
of intestinal vaccines. Zhur. mikrobiol., epid. i immun.
33 no.11:17-22 N '62. (MIRA 17:1)

1. Iz Rostovskogo i Moskovskogo institutov epidemiologii
Ministerstva zdravookhraneniya RSFSR i Moskovskoy gorodskoy
sanitarno-epidemiologicheskoy stantsii.

FERDINAND, Ya.M. (Rostov-na-Donu); Prinimali uchastiye: MARISOVA, A.P.;
BRAYNINA, R.A.; MARGULIS, L.A.; MYASNENKO, A.M.; KOVALEVSKAYA,
I.L.; TELESHEVSKAYA, E.A.; SOBOLEVA, S.V.; KALININA, K.I.;
KOVALEVA, N.S.; IVANOVA, M.K.; ARENDER, B.A.; KUCHERENKO, R.A.;
MANATSKOVA, K.S.; OLEYNIKOVA, L.T.; KIBARDINA, Yu.A.;
GRIGOR'YEVA, K.S.; SEMENIKHINA, L.G.; CHERNYKH E.I.; DOROFEYEVA,
V.M.; SHEVCHENKO, Ye.N.; ABRAMOVA, O.K.; SKUL'SKAYA, S.D.;
PETROVA, Z.I.; MAKHLINOVSKIY, L.I.; KUZ'MINA, A.I.; AL'TMAN, R.Sh.;
MARDERER, R.G.; YENGALYCHEVSKAYA, L.N.; CHIRKOVA, M.N.; TERESHCHENKO,
N.I.; SHELKOVNIKOVA, M.A.; PROKOPENKO, V.V.; BEKLEMESHEVA, Ye.S.;
BARANOVA, T.V.

Effectiveness of specific prophylaxis with alcohol divaccine
against typhoid and paratyphoid B fever in school-age children.
Zhur. mikrobiol., epid. i immun. 41 no.1:23-27 Ja '64.

(MIRA 18:2)

ACC NR: AP6034523

SOURCE CODE: UR/0016/66/000/010/0090/0094

AUTHOR: Ferdinand, Ya. M.; Lebedeva, Ye. A.; Marisova, A. P.; Romanova, V. P.; Ol'shteyn, S. Ye.; Gabrilovich, A. B.; Kochar'yan, O. N.; Soboleva, S. V.; Kalinina, K. I.; Murakhovskaya, V. A.; Khanum'yan, T. A.; Rachkovskaya, Yu. K.; Solyanok, L. D.; Mstibovskiy, S. A.; Kovaleva, N. S.; Plyuro, B. A.; Sycheva, N. S.; Rudakova, L. P.; Tupitsyna, L. N.; Kolodiy, O. M.; Redechkina, Z. P.; Kurochkin, V. I.; Vozzhayeva, A. P.; Vetlugina, K. F.; Vorob'yeva, A. P.; Vevyur, N. A.; Zhigul'skaya, I. F.; Smirnova, M. A.; Tikhonova, N. N.; Kurdova, N. G.; Yevsyukova, N. V.; Azova, S. M.; Babicheva, L. M.; Popova, A. G.; Tokarev, G. N.; Rastrigin, N. P.; Kuz'mina, A. N.; Goncharenko, O. N.; Borozdenko, T. F.; Rastrigina, G. V.

ORG: Rostov-on-Don Institute of Epidemiology, Microbiology, and Hygiene (Rostovskiy-na-Donu institut epidemiologii, mikrobiologii i gigiyeny); Department of Infectious and Childhood Diseases, Rostov Medical Institute (Kafedra infektsionnykh i detskikh bolezney Rostovskogo meditsinskogo instituta); Munciple Sanitation and Epidemiological Station (Gorodskaya sanitarno-epidemiologicheskaya stantsiya); Hospital No. 1 (Bol'nitsa No. 1.); Infectious Disease Clinic, Saratov Medical Institute (Klinika infektsionnykh bolezney Saratovskogo meditsinskogo instituta); Department of Microbiology and Infectious Diseases, Astrakhan Medical Institute (Kafedra mikrobiologii i infektsionnykh bolezney Astrakhanskogo meditsinskogo instituta);

Card 1/3

UDC:616.927+616.927.71-008.97

ACC NRAP6034523

Municipal Sanitation and Epidemiological Station (Gorodskaya sanitarno-epidemiologicheskaya stantsiya); Hospital im. Bekhterev (Bol'nitsa); Volgograd Division, Rostov-on-Don Institute of Epidemiology, Microbiology, and Hygiene (Volgogradskiy filial Rostovskogo-na-Donu instituta epidemiologii, mikrobiologii i gigiyeny); Municipal Epidemiological Station (Gorodskaya epidemiologicheskaya stantsiya); Hospital No. 10 (Bol'nitsa No. 10)

TITLE: Typhoid and paratyphoid carriers

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 10, 1966, 90-94

TOPIC TAGS: human ailment, infective disease, typhoid, paratyphoid carrier state, disease incidence

ABSTRACT: Chronic typhoid or paratyphoid carrier state is accompanied by low bacterial and phagocytic indices in the blood. These indices are higher if protective substances and greater antibody titers are present. Depressed antibody formation

Card 2/3

ACC NR: AP6034523

SOURCE CODE: UR/0016/66/000/010/0090/0094

AUTHOR: Ferdinand, Ya. M.; Lebedeva, Ye. A.; Marisova, A. P.; Romanova, V. P.; Ol'shteyn, S. Ye.; Gabrilovich, A. B.; Kochar'yan, O. N.; Soboleva, S. V.; Kalinina, K. I.; Murakhovskaya, V. A.; Khanum'yan, T. A.; Rachkovskaya, Yu. K.; Solyanok, L. D.; Mstibovskiy, S. A.; Kovaleva, N. S.; Plyuro, B. A.; Sycheva, N. S.; Rudakova, L. P.; Tupitsyna, L. N. Kolodiy, O. M.; Redechkina, Z. P.; Kurochkin, V. I.; Vozzhayeva, A. P.; Vetlugina, K. F.; Vorob'yeva, A. P. Vevyur, N. A.; Zhigul'skaya, I. F.; Smirnova, M. A.; Tikhonova, N. N.; Kurdova, N. G.; Yevsyukova, N. V.; Azova, S. M.; Babicheva, L. M.; Popova, A. G.; Tokarev, G. N.; Rastrigin, N. P.; Kuz'mina, A. N.; Goncharenko, O. N.; Bcrozdenko, T. F.; Rastrigina, G. V.

ORG: Rostov-on-Don Institute of Epidemiology, Microbiology, and Hygiene (Rostovskiy-na-Donu institut epidemiologii, mikrobiologii i gigiyeny); Department of Infectious and Childhood Diseases, Rostov Medical Institute (Kafedra infektsionnykh i detskikh bolezney Rostovskogo meditsinskogo instituta); Munciple Sanitation and Epidemiologica. Station (Gorodskaya sanitarno-epidemiologicheskaya stantsiya); Hospital No. 1 (Bol'nitsa No. 1.); Infectious Disease Clinic, Saratov Medical Institute (Klinika infektsionnykh bolezney Saratovskogo meditsinskogo instituta); Department of Microbiology and Infectious Diseases, Astrakhan Medical Institute (Kafedra mikrobiologii i infektsionnykh bolezney Astrakhanskogo meditsinskogo instituta);

Card ³/₃

UDC:616.927+616.927.7]-008.97

KURNEYEV, A.P.; MARISOVA, I.V.

New discovery of the free-tailed bat *Tadarida tenietis* Rafin in the
U.S.S.R. *Nauk.zap.Kiev.un.* 9 no.6:159-160 '50. (MLBA 9:10)
(Bats)

MARISOVA, I.V.

Importance of the great spotted woodpecker to forestry (Dryobates
major L.). Nauk.zap. Kiev.un.12 no.3:73-86 '53. (MLRA 9:10)
(Kiev Province--Woodpeckers)

MARISOVA, I. V.

"The Economic Importance, Biology and Propagation of the Thrush in the Ukrainian SSR." Cand Biol Sci, Kiev State U imeni T. G. Shevchenko, Min Higher Education USSR, Kiev, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

MARISOVA, I.V., kand.biol.nauk

On the biology of *Cuculus canorus* L. Nauk.zap.Krem.derzh.ped.inst.
no.4:93-97 '59. (MIRA 13:9)

(Cuckoos)

MARISOVA, I.V. [Marysova, I.V.]

Studies on the food of the lizards *lacerta agilis* L. and *L. vivipara*
Jacq. Zhir. prats' Zool. muz. AN URSR no. 29:51-55 '60.

(MIRA 14:4)

(Ternopol Province--Lizards)
(Animals, Food habits of)

**TATARINOV, K.A., kand.biologicheskikh nauk (Kremenets); MARISOVA,
I.V., kand.biologicheskikh nauk (Kremenets)**

**Land uskrats. Priroda 49 no. 12:110-111 D '60. (MIRA 13:12)
(Uskrats)**

MARISOVA, I.V.; VLADYSHEVSKIY, D.V.

Biology of the ring thrush (*Turdus torquatus* L.) in the Ukraine,
~~Biol. zhur.~~ 40 no. 8:1240-1245 Ag. '61. (MIRA 14:8)

1. Pedagogical Institute of Kremenets.
(Chernogora Range--Thrushes)

MARISOVA, I.V. [Marysova, I.V.]

Observations on the arrival of some species of birds in
Ternopol' Province. Zbir. prats. Zool. muz. AN URSR no.32:
50-56 '63. (MIRA 16:11)

BRIGINETS, M.L. [Bryhinets', M.L.], kand. sel'khoz. nauk, glav.
red.; BILOUS, I.F., kand. ist. nauk, zam. glav. red.;
MARISOVA, I.V. [Marisova, I.V.], kand. biol. nauk, dots.,
red. SVINKO, Y.M. [Svynko, I.M.], red.; TATARINOV, K.A.
[Tatarinov, K.A.], kand. biol. nauk, dots., red.;
SHIMANSKAYA, V.O. [Shimanska, V.O.], red.

[Materials on the study of the natural resources of
Podolia] Materialy do vyvchennia pryrodnykh resursiv
Podillia. Kremenets', Kremenets'kyi derzhavnyi pedagog.
in-t, 1963. 199 p. (MIRA 17:7)

1. Mizhvuzivs'ka konferentsiya po vyvchennyu pryrodnykh
resursiv podillya. 1963. 2. Kremenets'kiy pedagogicheskii
institut (for Tatarinov, Marisova).

MARISOVA, I.V.

Syrian woodpecker (*Dendrocopus syriacus* Hemp. et Ehrenb.)
in the Ukraine. Zool.zhur. 44 no.11:1735-1737 '65.
(MIRA 18:12)

1. Kremenetskiy gosudarstvennyy pedagogicheskiy institut.

MARISOVA, I.V.

Migration of some birds to the West Ukrainian forest steppe.
Ornitologia no.7:481 '65.

(MIRA 18:10)

SIDOROV, V.F.; GENZER, M.S.; MARISOVA, O.I.

Technology of making knitted-in heels on the FSU-2 Cotton
hosiery machine. *Izv. vys. ucheb. zav.; tekhn. leg. prom.*
no.3:117-125 '58. (MIRA 11:10)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova.
(Hosiery)

MARISOVA, O.I., inzh.; GENZER, M.S., inzh.

Mechanisms of the FSW-2 "Tekstima" machine for knit-in heels.
Izv.vys.ucheb.zav.; tekhn.prom. no.4:130-136 '60. (MIRA 13:10)

1. Leningradskiy tekstil'nyy institut imeni S.M.Kirova. Rekomendovana
kafedroy tekhnologii trikotazhnogo proizvodstva.
(Knitting machines)

GENZER, N.S., insh.; MARISOVA, O.I., insh.; SIDOROV, V.F., insh.

Analyzing the formation of the stocking welt on the FSW-2 "Tekstima"
Cotton machine. *Izv.vys.ucheb.zav.; tekhnolog.prom. no.6:116-123*
'60. (MIRA 14:1)

1. Leningradskaya trikotashno-chulochnaya fabrika "Krasnoye Znamya"
(for Genser). 2. Leningradskiy tekstil'nyy institut imeni S.M.Kirova
(for Marisova & Sidorov). Rekomendovana kafedroy tekhnologii
trikotashnogo proizvodstva Leningradskogo tekstil'nogo instituta
imeni Kirova.

(Hosiery)

(Knitting machines)

MARISOVA, O.I., inah.

Formation of the plated structure on multiple-lock knitting machines.
Tekst.prom. 21 no.3:34-38 Mr '61. (MIRA 14:3)
(Knitting machines)

MARISOVA, O.I., kand. tekhn. nauk, dotsent; Kuznetsov, L.M., dotsent

Use of knitted fabrics instead of industrial cloth. Tekst. prom.
24 no.7:58-61 JI '64. (ICRA 17:10)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti im.
S.M. Kirova.

MARISOVA, O.I., kand. tekhn. nauk

Relation between the number of the splicing thread and the
class of the machine. Tekst. prom. 24 no.11:44-47 N '64.
(MIRA 17:12)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennost'
imeni S.M. Kirova.

BRODIN, M.S.; MARISOVA, S.V.

Dependence of the refractive indices of anthracene crystals
at 20°K on their thickness. Ukr.fiz.zhur. 6 no.6:742-745 H-D '61.
(MIRA 16'5)

1. Institut fiziki AN UkrSSR, Kiyev.
(Anthracene crystals--Optical properties)

BRODIN, M.S.; MARISOVA, S.V.

Spectral distribution of the dependence of the transparency of anthracene single crystals on their thickness. Ukr.fiz.zhur. 6 no.6:745-750 N-D '61. (MIRA 16:5)

1. Institut fiziki AN UkrSSR, Kiyev.
(Anthracene crystals—Optical properties)

ERODIN, M.S.; MARISOVA, S.V.

Davydov splitting and polarization ratio in the region of the
first electron transition of an anthracene crystal. Opt. i
spektr. 10 no.4:473-476 Ap '61. (MIRA 14:3)
(Anthracene crystals--Spectra)

64507-65 EPA(s)-2/ENT(1)/ENT(m)/ENT(b)/T/ENT(t) IJP(c) GG/JD/JG
ACCESSION NR: AP5012608 UR/0051/65/018/005/0820/0824 46
535.34:548.0 44,55

AUTHORS: Yeremenko, V. V.; Belyayeva, A. I.; Marisova, S. V.

TITLE: On the nature of the structure of the long-wave absorption edge of light in crystals of mercury iodide

SOURCE: Optika i spektroskopiya, v. 18, no. 5, 1965, 820-824

TOPIC TAGS: mercury compound, manganese compound, absorption edge, light absorption, absorption spectrum

ABSTRACT: The authors investigated the absorption spectra of light in the crystals HgI_2 and $MnCl_2$, and in the solid solutions $HgI_2(X)-CaI_2(1-X)$ and $MnCl_2(X)-CdCl_2(1-X)$ at 20.4K. The purpose of the investigation was to obtain more details on the mechanism of photoconductivity and luminescence of the HgI_2 crystals, and especially to clarify the mechanisms of long-wave absorption of HgI_2 by inves-

Card 1/3

L 64507-65

ACCESSION NR: AP5012608

Investigating the influence of impurities on the structure of the spectra of red HgI_2 and comparing the spectra of the yellow high-temperature modification with the spectra of the vapor. The light source was a high power discharge lamp with an intense continuous spectrum. The spectra were photographed with prism spectrographs. The crystals were grown by cooling a drop of melt in a special quartz cuvette which yielded samples of specified thickness. The tests show that the electron transitions causing the long-wave absorption in the crystals of the low-temperature red modification of HgI_2 are not localized within a single cell. This is evidenced by the absence of any similarity with the optical absorption spectrum of HgI_2 vapor and the sharp influence of the phase transition (at 123°C) on the spectrum. The weak broadening of the absorption band following introduction of impurities CdI_2 apparently signifies that the radius of the corresponding excited state is sufficiently large to average out the inhomogeneity of the structure. The absorption of light in

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ACCESSION NR: AP5012608

the crystals of the high temperature modification is deduced to be of molecular character since their long wave absorption edge ($28,977 \text{ cm}^{-1}$) is very close to the start of the intense absorption of light in the HgI_2 vapor ($29,400 \text{ cm}^{-1}$). Orig. art. has: 5 figures.

ASSOCIATION: None

SUBMITTED: 05Apr64

ENCL: 00

SUB CODE: OP

NR REF SOV: 005

OTHER: 002

ka
Card 3/3

L 5430-66 EWI(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5019755

UR/0051/65/019/002/0235/0238
539.194 : 547.672

AUTHOR: Brodin, M. S. ^{44, 65}; Marisova, S. V. ^{44, 55}

40
B

TITLE: The oscillator strength of the first electronic transition of crystalline anthracene ^{44, 55}

SOURCE: Optika i spektroskopiya, v. 19, no. 2, 1965, 235-238

TOPIC TAGS: anthracene, oscillator strength, electron transition, absorption spectrum, electric polarization

ABSTRACT: This research was motivated by the lack of reliable data on the oscillator strengths of the lowest electronic transitions in the absorption spectrum of anthracene. They have therefore determined the oscillator strength f of the first electronic level with greater accuracy, by measuring more accurately the integrated intensity (eliminating factors leading to overexposure of the b component) and by using a more accurate formula for f . The absorption intensities were measured in thin single-crystal layers (less than 0.1μ) grown by sublimation and placed in contact with a small quartz plate. The intensity measurements were made by a photographic method with a 4 \AA/mm spectrograph, the spectra being photographed in polarized light. The absorption measurements were made at 20K. It was found that

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L 5430-66

ACCESSION NR: AP5019755

$f \approx 0.43$ for the entire electron-vibrational system, which is four times the value (~ 0.1) usually quoted in the literature. Values of the Davydov splitting (160 cm^{-1}) and of the polarization ratio (~ 7) calculated from these oscillator strengths indicate that the mutual perturbation of the first and second electronic transitions is negligible in the anthracene crystal. Orig. art. has: 1 figure, 1 formula, and 1 table.

ASSOCIATION: none

SUBMITTED: 07 Jun 64

MR REF BOV: 004

ENCL: 00

OTHER: 007

SUB CODE: 55, OP

bed
Card 2/2

L 31361-65 EWT(m)/EWP(t)/EWP(b) IJP(c) RDW/JD

ACCESSION NR: AP4048865

S/0185/64/009/010/1084/1088

AUTHOR: Marisova, S. V.

TITLE: The nature of birefringence and some details of the structure of energetic zones in $CdS_x - CdSe_{1-x}$ crystals

SOURCE: Ukrayins'ky'y fizy*chiv'y zhurnal, v. 9, no. 10, 1964, 1084-1088

TOPIC TAGS: CdS crystal, $CdS_x - CdSe_{1-x}$ crystal, birefringence, isotropic point, light absorption

ABSTRACT: The dependence of the position of the isotropic point (the frequency at which birefringence turns to zero) on the thickness of CdS crystals and on the concentration of the components of mixed $CdS_x - CdSe_{1-x}$ crystals was investigated at 20K. It was shown that the position of the isotropic point was practically independent of the thickness of CdS crystals from 2-50 micrometers, indicating the absence of essential dependence between the thickness and the specific absorption in the region of basic exciton bands. Data on the nature of birefringence of mixed $CdS_x - CdSe_{1-x}$ crystals showed that an increase in the Se content shifted the iso-

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ACCESSION NR: AP4048865

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tropic point, but not linearly. From this it was possible to draw conclusions about the change in the depth structure of the energetic zones of these crystals as the concentration of their components changed. "Mixed $CdS_x - CdSe_{x-1}$ crystals were grown and given us for investigation by M. I. Vy*try*khovs'k and I. B. Myizetsko." Orig. art. has: 3 figures

ASSOCIATION: Insty*tut fizy*ky* AN URSS, Kiev (Institute of Physics AN URSS)

SUBMITTED: 27Dec63

ENCL: 00

SUB CODE: SS

NR REF SOV: 001

OTHER: 003

Card 2/2

MARITAN, E.

Distr: 4K2c(j)

Problems in the manufacture of poly(vinyl alcohol) fibers in mild salt soles. *Maritan, E., P. Almondi, L. Lora, V. Ciofani, E. Maritan, P. de Nardis, and A. C. C. (Ind. Sci. Chem. Res., Moscow, Russia). F. 1977, B. Transl. 11, 113-118 (1980).*—The relations between certain manufg. operations and the properties of the resulting fibers were studied. The increase in viscosity of the pptg. bath with increasing concn. is sharpest in the 18-20% concn. range. Filterability decreases with increasing polymer concn. The viscosity decreases sharply with increasing temps. in the 20-50° temp. range and slowly at higher temps. Na₂SO₄ has high coagulating efficiency, however, to achieve a homogeneous coagulation throughout the entire fiber cross-section, the addn. of 20-30% ZnSO₄ is necessary; this will somewhat reduce the efficiency of Na₂SO₄. To avoid the crystn. of the salts the temp. of the pptg. bath must be kept between 40 and 45°. (NH₄)₂SO₄ will ppt. the poly(vinyl alc.); however, owing to its low efficiency, additives will serve no useful purpose. Baths contg. ZnSO₄ only will cause no pptn. even at high concns. Owing to the fact that the soly. of NaCl in water is limited, this salt is not practicable for use as coagulant. Acetone, cyclohexanone, EtOH, MeOH, AcOEt, and cyclohexanol also have coagulating ability; however, to a much

lower extent than inorg. salts. The soly. of poly(vinyl alc.) fibers in mild salt soles (used for the rinsing of the freshly pptd. fiber) is lowest with low concns., at low temp., and with contact periods not exceeding 1-3 min. The soly. of the fiber in water increases with increasing temp. and (or) increasing exposure duration and decreases with an increasing degree of stretch in the fiber. During heat-setting the initial crystallinity of the fiber will increase from 40-50% to 70-85%; this causes a redn. in shrinkage and hot-water soly. The degree of acetalization, under identical acetalizing conditions, depends upon the crystallinity of the fiber. The acetalization is considered to be confined to the fiber surface and to the amorphous portions only. Conversely, the

degree of acetalization can be used to establish the degree of crystallinity. Heat-setting in the relaxed condition causes a higher degree of crystallinity than setting under stress. Max. crystallinity is achieved by pre-setting at lower temps. (180-200°) followed by setting at higher temps. (220-300°) without stress. Fibers with a high (80-85%) degree of acetalization and a low degree of crystallinity show the highest shrinkage in hot water, while fibers in which only 1/2 of the OH groups are acetalized will not shrink even at a high degree of crystallinity. O. J. Brown

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1/2 g (ac)