BUTOVSKIY, V.O. [Butovs'kyi, V.O.] [deceased]

Peculiarities in the medical study of children and adolescents in connection with physical training. Ped., akush. i gin. 23 no.1: (MIRA 14:6) 10-14 '61.

1. Ukrainskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva (direktor - zasluzhennyy vrach USSR M.D. Burova). (PHYSICAL EBUCATION FOR CHILDREN_HYGIENIC ASPECTS)

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ALEKSANDER, I .; BUTOVSKIY, Ya.; YUDIN, Ye.

Discussion on the number of channels and sound quality of stereophonic films. Tekh.kino i telev. 4 no.10:61-67 0'60. (MIRA 13:10)

1. Kinostudiya "Lenfil'm." (Motion pictures) (Stereophonic sound systems)

s/187/61/000/008/002/002 D053/D113

3.2100

AUTHORS: Butovskiy, Ya. L., and Gol'shteyn, L. G.

TITLE:

PERIODICAL: Tekhnika kino i televideniya, no. 8, 1961, 30-38

Remote control of motion-picture cameras

TEXT: The authors review basic requirements for the design of remote-control systems for motion-picture cameras and describe the remote-control units designed by the Lenfil'm studio. This studio has been developing remote-control equipment for motion picture cameras for several years. The first scenes shot with the aid of remote-controlled cameras were filmed in 1960. Engineers I. Slutskiy, E. Drukh, and A. Pliner of the Technical Department, and engineers A. Alekseyev and L. Dukhon of the Exposure Technique Department have actively participated in the development program directed by engineer L. G. Gol'shteyn. The basic design requirements for the camera remotecontrol system are: (1) switching off and on of the camera motor; (2) visual monitoring of the photographed picture; (3) panning and camera tilt control within a wide range of angles and speeds; (4) lens focusing control; (5) lens aperture control; and (6) film foctage control. Moreover, the remote-control

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Remote control of motion-picture cameras

S/187/61/000/008/002/002 D053/D113

unit should be of light weight, easily transported and serviced, and contain the maximum possible number of standard parts. Three versions of remotecontrol units have been designed for (1) the "Ekler-studio" synchronous motion-picture camera; (2) the "Askania" motion-picture camera; and (3) the 1. KCP (1-KSR) "Konvas-Avtomat" light motion-picture camera. The visual monitoring of the photographed picture is obtained with the use of a PTY-OMI (PTU-OM1) industrial closed TV unit. The video receiver of this unit containing a 35 JK 26 (35LK2B) tube is mounted on the control stand while the camera tube, an $\mathcal{J}\mathcal{H}$ 23 (LI23) vidicon, is mounted together with the motionpicture camera on the panoramic and tilting head. This head is driven by HA -501 (ND-501) synchro generators and HC -501 (NS-501) synchro repeaters; the lens and diaphragm are driven by HA - 404 (ND-404) synchro generators and HC-404 (NS-404) synchro repeaters. For the "Ekler-studio" motion-picture camera, an industrial 12 \underline{WC} (12ShS) cradle head was used. The camera unit can also be mounted on a special light crane with a 9 m. jib, designed by V. Baranikov. The control stand can be dismounted, and it contains, apart from the video monitor, switches for the camera motors, synchros, and film footage counters. These counters are driven by CA_{-2} (SD-2) synchronous motors. The 1-KSR motion-picture camera can be synchronized by using a special

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Remote control of motion-picture cameras

S/187/61/000/008/002/002 D053/D113

system with a $\int -31$ (G-31) synchronous motor. This system was proposed by the film operator O. Kukhovarenko and engineer A. Aleksevev. The entire remote-control unit is supplied from a 220 V industrial power network, or from the KOC (KES) field power plant. The remote control of the motionpicture camera enables filming to be carried out in difficultly accessible places, eliminates acting hazards, and facilitates the training of film producers. It can also be used for shooting scenes from an airplane, in which case the panoramic head with cameras is suspended under the wing and the control stand placed in the cabin of the airplane. There are 9 figures.

Card 3/3

APPROVED FOR RELEASE: 06/09/2000

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BATURO, Piotr, mgr inz.; BUTOWSKI, Jerzy, inz.; LEWANDOWSKI, Hubert, inz.

New designs in the Wood Machine Tool Factory. Przegl mech 23 no.15:441-444 10 Ag '64

1. Wood Machine Tool Factory, Bydgoszcz.

- 7

· <u>81</u>

	Yugoslavia	·
	Degraes: Dr.	
Affiliati	Lon: /not given /	
Source:	Belgrade, Veterinarski glasnik, No 5, 1961, pp 417-419. Portrait: "Alija Talic, Assistant Secretary in the Secretariat	
Source:	Belgrade, <u>Veterinarski glasnik</u> , No 5, 1961, pp 417-419. Portrait: "Alija Talic, Assistant Secretary in the Secretariat for Agriculture of People's Republic of Bosnia and Herzegovina."	. [.]
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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307730012-8"

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BUTOZAN, Vaso, dr.

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The origin and development of the partisan medical services. Med. arh. 15 no.6:37-42 N-D '61.

(MILITARY MEDICINE hist)

CIA-RDP86-00513R000307730012-8

YUGOSLAVIA

V. BUTOZAN [Affiliation not given]

"Ten Years of Activity of the Federation of Veterinarians! and Veterinary Technicians' Societies of Yugoslavia."

Belgrade, Veterinarski Glasnik, Vol 17, No 2, 1963; pp 131-135.

Abstract: Rapid review of the development of veterinary professional and organizational activity in various states and on the federal level in Yugoslavia, 1957-1962; names of principal leaders, main activities, direction of association work on the national and international level, brief summary of key laws.

11/1

CC NR: AP6001378	SOURCE CODE:	UR/0376/65/001/009/1190/1203
UTHORS: Vasil'yeva, A. B.; Butozov, V	<u>. F.</u>	13
RG: <u>Moscow State University im. M. V.</u> osudarstvennyy universitet, fizicheskiy	Lomonosov, Phys (fakul'tet)	ics Faculty (Moskovskiy
ITLE: Problems on eigenvalues for inte ter for higher derivative	egro-differentia	l equations with small param-
OURCE: Differentsial'nyye uravneniya,	v. 1, no. 9, 19	65, 1190- <u>12</u> 03
OPIC TAGS: differential equation, inte	gral equation	
BSTRACT: The Cauchy problem for a first possidered, $\mu \frac{dy}{dx} + A(x)y = \lambda$	t order integro.	-differential equation is
) / (*, <i>1) y</i> (<i>t)</i> a,	(1)
th 0 initial condition	y(0) = 0.	(2)
re $\mathcal{M} > 0$ is a small parameter, 2 is a eigenvalues and eigenfunctions of $10, 04, 55$		
A(x)y	$= \lambda \int_{0}^{1} K(x, t) y(t) dt$	(3)

L 13487-66 ACC NR: AP6001378 is investigated, and also those of (1), (2). There is an analogous study for $\mu^{2}\frac{d^{2}y}{dx^{2}}-A^{2}(x) y=\lambda \int_{0}^{\infty}K(x, t) y(t) dt,$ (4) y(0) = 0, y(1) = 0.(5) Orig. art. has: 31 formulas. SUB COLE: 12/ SUBM DATE: 13Apr65/ ORIG REF: 003/ OTH REF: 001

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J USSR/Soil Science - General Problems. : Ref Zhur Biol., No 19, 1958, 86690 Abs Jour : Butozova, O.V., Chekalova, M.I. Author : Central Museum of Soil Science, AS USSR : Exhibition of Agricultural Districting and Reclamation of Inst Lands in Various Zones of USSR Title : Sb. rabot Tsentr. muzeya pochvoved. AN SSSR, 1957, vyp. Orig Pub 2, 11-26 Abstract : No abstract.

Card 1/1

PA 17/49T39 π^{*} • 2 USSR/Engineering Springs, Leaf Alloys, Nonferrous de serve de Jul 48 "Procedure for Mechanical Testing of Nonferrous Alloys for Flat Springs," A. Butra, 1 p "Zavod Lab" Vol XIV, No 7 Chief nonferrous spring alloys are bronze and German silver. Existing range is adequate but more stringent specifications are required. **.** 17/49139

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307730012-8"

BUTRA, A.

BUTRA, A. P.

Dissertation: "Investigation of the Electric Strength of An Oriented Polystyrene Film." Cand Tech Sci, Leningrad Polytechnic Inst, Leningrad, 1954. Referativnyy Zhurnal--Khimiya, Moscow, No 14, Jul 54.

SO: SUM No. 356, 25 Jan 1955

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BUTRA, A- USSR/Physics		lectric resistance of porcelain FD-1218	
Card 1/1		Pub. 153-2/22	
Author	:	Butra, A. P.	
Title	:	Electric resistance of porcelain	
Periodical	:	Zhur. tekh. fiz. 24, 1561-1567, Sep 1954	-
Abstract	:	The effect of duration of applied a.c. voltage on the electric resistance of usual insulating porcelain was tested. At a prolonged potential reach- ing 70 to 80% of breakdown voltage a decrease of resistance of 20-30% was found. It should be ascribed to ionization within the pores. A test for resistance to high-frequency pulses showed a drop of resistance with de- creasing frequency of pulses per second. Indebted to N. P. Bogoroditskiy and V. T. Renne. Three references including one German.	
Institution	:		
Submitted	:	May 21, 1953	



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CIA-RDP86-00513R000307730012-8

Polish Technical Abst. No, 1 1954 Agriculture, Food Processing Industry, Forestry, Fisheries

BUTRA,

2883 Saniczek M., Butza B. Locust Wood Pliprop Resistanco Testa. "Badania wytrzymałości kopsiniaków z grochoctzewu". (Pruce Inst. Bada Leán. No: 93), Warszawa, 1933, PWRIL, 39 pp., 27 (igs., 6 tabs.

The work is a survey of studies over the usefulness of locust-wood (Robinia pseudoacacia L) for the production of pitprops. Supports: from locust-wood are characterised by; a) a markedly greater curvature — locust-wood up to 2.5 cm/m, pinewood 1 cm/m; b) a markedly greater tapering — locust-wood up to 3.0 cm/m, pine up to 1 cm/m. c) a greater stenderness — locust-wood up to 133, pine up to 101. Supports from locust-wood showed a higher maximum resistance to deviation, 2.5% of the results falling within the 250--275 kg/cm² division while the strength of pine-wood supports fell short of this limit. The greatest frequency as regards resistance of locust-wood supports falls within the 125--150 kg/cm² division and reaches 23% of the to'al number of results, as against 44% for pine-wood, This frequency within one division as regards the resistance of pine-wood supports constitutes their greatest advantage from the point of view of statics and safety.

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APPROVED FOR RELEASE: 06/09/2000



BUTRA, F.P., Mbr., Inst. Physics of Metals, Ural Affil. Acad Sci. Physics, Mor., Molotov State Univ., im. A.M. Gorkiy

"The Texture of the Oxide Layer of Iron," Zhur. Tekh. Fis., Vol 18, No. 2, 1948.

Texture of Iron Slag; IV. Research at 'Intermediate' Zone of Temperature," ibid.

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307730012-8 1 **e** ə ... AND JND DROERS BUTRA F. PROCESSES AND PACPERTIES INUET 4 •• -14 B ~ Ż •• ... --... -Crystal Structure of Iron Scale. IV. Investigation of the "Intermediate" Temperature Range. (In Russian.) V. I. Arkharov and F. P. Butra. Zhurnol Tekhni-cheskoi Fiziki (Journal of Technical Physics), v. 18, Feb. 1948, p. 211-214. -49.6 s, rep. 1948, p. 211-214. Above investigation showed that the scale formed at high temperatures has a structure directly de-pendent on the mechanism of oxidation. This me-chanism was studied between 500 and 850°C., on the basis of the different scale compositions and structures formed. R . ----ð 70 78 8 *** 8 ŧ. -100 브 -E-LTATE SATT BETALLURGICAL LITERATURE CLASSIFICATION * 1 I ASB-SLA -TRONG BON 101 8 TRONI STVINZIVI **b** • NO LETTER BILLIT CHE CHY LATOND HIP ONV GM 1 1. CEONER 0 * ٦ × × 9 0 A) 1 5 8 24 'n 10 15 9 6 11 SS 17. • ø • • e ė õ Ä 9 Ó • 3 ō. ě ė ě . à

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24(2) AUTHORS:	Konobeyevskiy, S. T., Butra, F. P. SOV/89-5-5-15/27
TITLE:	The Diffuse Scattering of X-Rays on Irradiated Crystals of Diamonds, Corundum, Silicon, and Germanium (Diffuznoye rasseyaniye rentgenovykh luchey v obluchennykh kristallakh almaza, korunda, kremniya i germaniya)
PERIODICAL:	Atomnaya energiya, 1958, Vol 5, Nr 5, pp 572-573 (USSR)
ABSTRACT :	The crystals were subjected to the action of a fast neutron flux of $5.5.10^{19}$ n/cm ² in the reactor RFT at a temperature of up to $80^{\circ}C$ ($E_{n} > 1$ MeV). The Laue diagramewere made with
	The same orientation of the irradiated and non-irradiated crystals with Mo-radiation. The X-ray pictures of an irradiated diamond which was cooled by means of liquid nitrogen showed no noticeable modification of the intensity of scattering maxima
Card 1/3	The Laue-diagrams of irradiated and non-irradiated silicon showed diffuse scattering maxima of the same intensity. If a not irradiated crystal is cooled with liquid nitrogen, the maxima vanish, which was not found to be the case with

SOV/89-5-5-15/27 The Diffuse Scattering of X-Rays on Irradiated Crystals of Diamonds, Corundum, Silicon, and Germanium

> irradiated crystals. The lattice spacing of the diamond increased after irradiation from 3,559 kX to 3,592 kX, i.e. by 0,9%. The lattice spacing of silicon and germanium is modified by not more than 0,1 %. The modification of the lattice spacing in the case of a diamond causes the double scattering in the X-ray picture to vanish. In order to find cut whether this vanishing is of permanent duration the crystals were annealed. The following results were obtained: Diamond: After annealing at 500°C for 7,5 h, the lattice spacing decreased from 3,592 kX to 3,574 kX. The intensity of the diffuse scattering maxima did not change noticeably. After further annealing at 900°C for 1 hour: 3,566 kX; the intensity of the maxima becomes noticeably lower. In the course of a further treatment at 1200°C for 1 hour the lattice spacing decreased still more. The initial value was, however, not attained.

Card 2/3

In corundum the diffuse scattering caused by irradiation vanishes after four hours of annealing at 1200°.

The Diffuse Scattering of X-Rays on Irradiated Crystals of Diamonds, SOV/89-5-5-15/27 Corundum, Silicon, and Germanium

> In the case of silicon the corresponding values are 1000° C -In germanium no modification of the lattice spacing and no diffuse scattering was observed. Irradiation of the crystals was carried out by K. P. Dubrovin. There are 3 figures and 5 references, 0 of which is Soviet.

SUBMITTED:

July 12, 1958

Card 3/3

18.1130

s/126/60/009/03/017/033 E091/E435

AUTHORS: Agapova, N.P., Butra, F.P. and Votinov, S.N. On the Nature of Excess Phases in a Chromium-Nickel-TITLE : Molybdenum²Niobium⁹Stainless Steel₁ PERIODICAL; Fizika metallov i metallovedeniye, 1960, Vol 9, Nr 3, pp 422-425 (USSR) ABSTRACT: The steel investigated by the authors, the chemical

composition of which is shown in the Table on p 422. belongs to the group of stainless steels having a stable austenite structure which does not undergo a $\gamma \rightarrow \alpha$ change even at considerable degrees of cold compression and prolonged soaking at temperatures of up to 750°C. However, it exhibits excess phases in its structure, the quantity of which varies in relation to the heat treatment given. The authors have investigated the nature of these phases. Specimens of steel were austenitized at 950 to 1300°C, followed by water-quenching and subsequent soaking for 100, 400 and 1000 hours at temperatures of 500, 600 and 750°C. Fig 1 shows the change of impact resistance, specific electrical Card 1/4 resistance, hardness and grain size with quenching

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CIA-RDP86-00513R000307730012-8

69694 S/126/60/009/03/017/033 E091/E435

On the Nature of Excess Phases in a Chromium-Nickel-Molybdenum-Niobium Stainless Steel

> temperature; Fig 2 shows the change in UTS, % elongation, impact resistance and hardness in relation to annealing temperature (ageing temperature) in 1000 hours. After heat treatment, the specimens were dissolved electrolytically and the excess phases liberated; the latter were investigated by chemical and X-ray analysis (Ref 1). In Fig 3 and 4, from the results of chemical analysis, the change of alloy element content in the electrolytic deposit and the total weight of the deposit in relation to the quenching and ageing temperatures is shown. By means of X-ray structural analysis it was found that the electrolytic deposit of the excess phases obtained from specimens quenched from 1200°C and above, consists primarily of NbC (Fig 5a), having a lattice parameter of 4.42 kX. As the quenching temperature is lowered, the % carbide in the deposit decreases (Fig 3) and the quantity of the intermetallic compound (MoNb)Fe2 increases (Ref 2); the latter has a MgZn2 type of structure with lattice V

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APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307730012-8

6969L s/126/60/009/03/017/033 E091/E435

On the Nature of Excess Phases in a Chromium-Nickel-Molybdenum-Niobium Stainless Steel

> parameters of a = 4.77 kX and c = 7.80 kX. An inflection in the "total weight" curves for the % element content in the electrolytic deposit can be observed at 1050 to 1150°C. This is evidently associated with solution of the intermetallic compound at these temperatures. The transition of the alloying elements from the dispersed phases to the solid solution in this temperature interval is accompanied by some decrease in hardness and increase in specific electrical conductivity and specific impact resistance of the metal. The electrolytic precipitate of specimens, quenched from 1150°C and subsequently annealed for 100, 500 and 1000 hours at 750°C and for 1000 hours at 600°C, consists primarily of an intermetallic compound of the same structural type but the lattice parameters decrease to a = 4.755 kX and c = 7.738 kX; in the X-ray photographs of such specimens, lines corresponding to large reflection angles are widened considerably due to changes in the unit cell dimensions (Fig 5b). The X-ray

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CIA-RDP86-00513R000307730012-8

69691 s/126/60/009/03/017/033 E091/E435 On the Nature of Excess Phases in a Chromium-Nickel-Molybdenum-Niobium Stainless Steel photographs were taken in K-Cr rays. Lengthy annealing at 500°C does not lead to separation of excess phases; at 600°C the process proceeds much more slowly than at 750°C. The chemical analysis shows a sharp decrease in Nb and an increase in Mo, Cr and Fe in the precipitate. These results enable one to assume that the intermetallic compound must correspond to the composition Mo(Fe,Cr)2. The molybdenides thus separating cause some change in hardness, UTS, % elongation and impact resistance of the steel (see Fig 2). There are 5 figures, 1 table and 2 Soviet references. This is a slightly abridged translation. SUBMITTED: November 9, 1959 Card 4/4

APPROVED FOR RELEASE: 06/09/2000

Bu	TRA, F.P. 82637
11 BA	02031
21.6200	S/126/60/010/02/007/020 E111/E352
AUTHOR:	Butra, F.P.
TITLE:	Effect of Neutron Irradiation on the Structure of Molybdenum
PERIODICA	L: Fizika metallov i metallovedeniye, 1960, Vol. 10, No. 2, pp. 223 - 225
to be prop present we and polyce in a type 100 °C win A great in by irradia obtained we from 3.140 were subje 450, 500,	anges in properties of molybdenum have been reported duced by neutron irradiation (Refs. 1-4). In the ork, molybdenum lamellar single crystals 0.03 mm thick rystalline wires, 0.2 mm in diameter, were irradiated RFT reactor. Irradiation was effected at up to th 1.23 x 10^{20} neutrons/cm ² , of which 35% were fast. ncrease in diffuse scattering of X-rays was produced ation (Fig. 16 compared with 1a). Laue patterns were with a molybdenum anode. The lattice spacing increased 04 to 3.1414 \pm 0.0003 kX during irradiation. Specimens ected to stepwise annealing at 100, 200, 300, 350, 400, 600 and 850 °C with holding times of 5-1 hours. erns of single crystals and Debye patterns of the wires

CIA-RDP86-00513R000307730012-8

82637 s/126/60/010/02/007/020 E111/E352

Effect of Neutron Irradiation on the Structure of Molybdenum

were obtained for each stage. Measures were taken to ensure that the diffuse maxima and Laue spots were on the straight-line part of the film-darkening curve. For photometry a type MF-4 microphotometer was used. Fig. 2 gives photometric curves for spots from the (200) plane and the corresponding diffuse maxima for various annealing temperatures, without annealing and without irradiation. Lattice disturbances were removed by annealing at 830 °C but not below. Fig. 3 shows Laue patterns of an irradiated single crystal annealed at 830 °C taken at room temperature and with cooling to liquid-nitrogen temperature. The author concludes from this work and from his previous work with Konobeyevskiy (Ref. 5) that the effects observed in the irradiated crystals are due to the same combination of defects that produce hardening and embrittlement. Acknowledgments are made to S.T. Konobeyevskiv for discussion of the work and to K.P. Dubrovin for irradiation of specimens. There are 3 figures and 5 references: 2 Soviet and 3 English.

SUBMITTED: February 29, 1960 Card 2/2

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		Konobeyevskiy, S. T., Corresponding Member, Academy of Sciences USSR, Resp. ند	Ū.	
·.		Deystvive vadernykh izlucheniv na materialy (The Effect of Nuclear Radiation on Materials). Moscow, Izd-vo AN SSSR, 1962. 383 p. Errata slip inserted. 4000 copies printed.		
	•	Sponsoring Agency: Akademiya nauk SSSF. Otdeleniye tekhni- cheskikh nauk; Otdeleniye fiziko-matematicheskikh nauk.		
•		Resp. Ed.: S. T. Konobeyevskiy; Deputy Resp. Ed.: S. A. Adasinskiy; Editorial Board: P. L. Gruzin, G. V. Kurdyumov, B. M. Levitskiy, V. S. Lyashenko (Deceased), Yu. A. Martynyuk, Yu. I. Pokrovskiy, and N. F. Pravdyuk; Ed. of Publishing House: M. G. Makarenko; Tech. Eds: T. V. Polyakova and I. N. Dorokhina.		
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SOV/6176

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The Effect of Nuclear Radiation (Cont.)

PURPOSE: This book is intended for personnel concerned with nuclear materials.

COVERAGE: This is a collection of papers presented at the Moscow Conference on the Effect of Nuclear Radiation on Materials, held December 6-10, 1960. The material reflects certain trends in the work being conducted in the Soviet devoted to the experimental study of the effect of neutron irradiation on reactor materials (steel, ferrous alloys, molybdenum, avial, graphite, and nichromes). Others deal with the theory of neutron irradiation effects (physicochemical transformations, relaxation of internal stresses, internal friction) and changes in the structure and proper-ties of various crystals. Special attention is given to the effect of intense Y-radiation on the electrical, magnetic, and optical properties of metals, dielectrics, and semiconductors.

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Description	B OI MUOIEA	r Radiation	(Cont.)		S0V/6176		
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 <u>L 2731-66</u> EWP(e)/FFA(c)-2/EWT(m)/EPF(c)/EWP(1)/EFF(n)-2 GG/GS/WH MCCESSION NR: AT5023804 MUNIOR: Konobeyevskiy, S. T. (Corresponding member AN SSSR); Butra, F. P. MUTHOR: Konobeyevskiy, S. T. (Corresponding member AN SSSR); Butra, F. P. SURCE: Soveshchaniye pc probleme Deystviye yadernykh izlucheniy na materialy. SOURCE: Soveshchaniye pc probleme Deystviye yadernykh izlucheniy na materialy. SOURCE: Soveshchaniye yadernykh izlucheniy na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, TOPIC TAGS: x ray diffraction analysis, diamond, colybdenum, corundum, silicon, irradiation ABSTRACT: The effect of fast, neutron irradiation in fluxes of (0.5-1.23) 1020 molybdenum bombarded at temperatures up to 100C. Diffuse scattering of x rays polycrystals. It was found that neutron irradiation increases the lattice on the radiograms of thu irradiated crystals. Annealing leads to a smaller Cond 1/2 		
TITLE: X-ray diffraction effects in neutron-irradiated crystals SOURCE: Soveshchaniye pc probleme Deystviye yadernykh izlucheniy na materialy. Moscow, 1960. Deystviye yadernykh izlucheniy na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, TOPIC TACS: x ray diffraction analysis, diamond, molybdenum, corundum, silicon, germanium, aluminum, fast neutron, irradiation effect, x ray scattering, neutron irradiation ABSTRACT: The effect of fast neutron irradiation in fluxes of (0.5-1.23) 1020 molybdenum bombarded at temperatures up to 100C. Diffuse scattering of x raye polycrystals. It was found that neutron irradiation in lattice spacing were followed in	$\frac{1}{2731-66}$ EWP(a)/2014	
TITLE: X-ray diffraction effects in <u>neutron-irradiated crystals</u> SOURCE: Soveshchaniye pc probleme Deystviye yadernykh izlucheniy na materialy. Moscow, 1960. Deystviye yadernykh izlucheniy na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, TOPIC TAGS: x ray diffraction analysis, diamond, molybdenum, corundum, silicon, germanium, aluminum, fast neutron, irradiation effect, x ray scattering, neutron irradiation ABSTRACT: The effect of fast neutron irradiation in fluxes of (0.5-1.23) 1020 molybdenum bombarded at temperatures up to 100C. Diffuse scattering of x rays polycrystals. It was found that neutron irradiation in lattice spacing were followed in	ACCESSION NR: $AT5023804$ (m)/EPF(c)/EWP(1)/EPF(p) 2	
TITLE: X-ray diffraction effects in <u>neutron-irradiated crystals</u> SOURCE: Soveshchaniye pc probleme Deystviye yadernykh izlucheniy na materialy. Moscow, 1960. Deystviye yadernykh izlucheniy na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, TOPIC TAGS: x ray diffraction analysis, diamond, colybdenum, corundum, silicon, germanium, aluminum, fast neutron, irradiation effect, x ray scattering, neutron irradiation ABSTRACT: The effect of fast neutron irradiation in fluxes of (0.5-1.23) 1020 molybdenum bombarded at temperatures up to 100C. Diffuse scattering of x raye polycrystals. It was found that neutron irradiation in lattice spacing were followed in	AUTHOR: Konobeyevskiv, S. T. (2) UR/0000/62/000/000/0251/0256	
SOURCE: Soveshchaniye pC probleme Deystviye yadernykh izlucheniy na materialy Moscow, 1960. Deystviye yadernykh izlucheniy na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, TOPIC TAGS: x ray diffraction analysis, diamond, colybdenum, corundum, silicon, germanium, aluminum, fast neutron, irradiation effect, x ray scattering, neutron irradiation ABSTRACT: The effect of fast neutron irradiation in fluxes of (0.5-1.23) 1020 molybdenum bombarded at temperatures up to 100C. Diffuse scattering of x raye polycrystals. It was found that neutron irradiation in lattice spacing were followed in	TITLE: X-ray diffraction efforts i	3
radiation on materials); doklady soveshchaniya na materialy (The effect of nuclear 251-256 TOPIC TAGS: x ray diffraction analysis, diamond, colybdenum, corundum, silicon, germanium, aluminum, fast neutron, irradiation effect, x ray scattering, neutron irradiation ABSTRACT: The effect of fast neutron irradiation in fluxes of (0.5-1.23) 1020 molybdenum bombarded at temperatures up to 100C. Diffuse scattering of x rays was studied on single crystals, and changes in lattice spacing were followed in on the mack causes the appearance of content irradiation incontent.	Source: Soveshchaniye po problem anidated crystals	
TOPIC TAGS: x ray diffraction analysis, diamond, colybdenum, corundum, silicon, germanium, aluminum, fast neutron, irradiation effect, x ray scattering, neutron irradiation ABSTRACT: The effect of fast neutron irradiation in fluxes of (0.5-1.23) 1020 n/cm ² was studied in diamond, corundum, silicon, germanium, aluminum, and molybdenum bombarded at temperatures up to 100C. Diffuse scattering of x raye polycrystals. It was found that neutron irradiation in statice spacing were followed in	radiation on materials); doklady a material of material of material of the mat	
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ABSTRACT: The effect of fast neutron irradiation in fluxes of (0.5-1.23) 1020 n/cm ² was studied in diamond, corundum, silicon, germanium, aluminum, and was studied on single crystals, and changes in lattice spacing of x rays spacing and causes the appearance of the irradiation income	germanium, aluminum, fast neutron analysis, diamond, moluble	
n/cm ² was studied in diamond, ^b corundum, ^b silicon, germanium, aluminum, and was studied on single crystals, and changes in lattice spacing of x rays spacing and causes the appearance of the interval aluminum of the main of the	ARCTNA ARTICA	
polycrystals. It was found that neutron irradiation income were followed in		
spacing and causes the appearance of irradiation income were followed in	Was studied on single crystal.	
increase in the little diffuse of a temperature-independent diffuse and	spacing and the was found that a changes in lattice space ing of x raya	
	increase in the lattice and arguinated crystals. Appendent diffuse scatter	
increase in the lattice parameter and to a gradual attenuation of the diffuse	1/2 All a gradual attenuation of the disc	

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scattering effect. In many cases, however (diamond, corundum, molybdenum), diffuse scattering remains stable up to high temperatures. A comparison of experimental data on the temperature dependence of diffuse scattering and changes in mechanical properties and electrical resistance induced by neutron bombardment of molybdenum leads to the conclusion that all these phenomena are caused by groups of defects which cause the formation of prismatic or annular dislocations that are stable up to temperatures close to the recrystallization point. An explanation of the abnormally high increase in the unit cell of neutron-irradiated diamond is proposed: because of the rupture of the bonds in the lattice and a change from tetrahedral to trigonal coordination of the atom, the cells of diamond are converted to graphitelike cells. Orig. art. has: 5 figures and 1

ASSOCIATION: none

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L 1.8048-63 EPF(n)-2/EWP(q)/EWT(m)/BDS ACCESSION NR: AP3002846 AFFTC/ASD/SSD Pu-4 WW/JD/JG S/0126/63/015/006/0873/0879 AUTHORS: Butra, F. P.; Yevkina, Z. F.; Fufayeva, J. L. TITLE: Structural variation in alpha-uranium monocrystals deformed by stretching SOURCE: Fizika metallov i metallovedeniye, v. 15, nc. 6, 1963, 873-879 TOPIC TAGS: stretching effect, alpha-uranium, structural variation ABSTRACT: The \sim -uranium monocrystals obtained by the phase transition $\beta \rightarrow \propto$ and recrystallization in the ~ -phase were deformed by stretching at room temperature. X-ray photographs showed structural variations in monocrystals with respect to deformation degree. Small deformations caused extension of all the spots on the Laue diffraction patterns. Further stretching caused the disappearance of the Laue spots and the appearance of separate maxima of the characteristic radiation located irregularly on the Debye rings. Still further deformation caused an orderly arrangement of the maxima. The maximum deformation (close to the rupture point) produced the appearance of an axial texture with [0017 axis. Card 1/2 -----的内心的人

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	Because all th assumed that p by gliding alon 8 figures.	e experiments <u>lastic deforma</u> ng (010) - <u>/</u> 10	showed only th tion of \mathfrak{S} -ur, of and by twin	he texture anium at roo aning {130}	with the [00] om temperature - <310>.	7 axis, i Proceed Orig. ar	t was s mainly t. has:	
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ACC	$\frac{1}{466-66} = E_{MT}(m)/EPF(n)-2/T/EWP(t)/EMP(b)/EMA(c) = IJP(c) = ES/JD/JG/MM$ $\frac{1}{48} = E_{MT}(m)/EPF(n)-2/T/EWP(t)/EMP(b)/EMA(c) = IJP(c) = ES/JD/JG/MM$ $\frac{1}{48} = E_{MT}(m)/EPF(n)-2/T/EWP(t)/EMP(b)/EMA(c) = IJP(c) = ES/JD/JG/MM$
AUT	UR/0089/65/018/006/C601/0608 621.039.542.32
But	HORS: Bochvar, A. A.; Kuznetsova, V. G.; Sergeyev, V. S.; 47
	LE: Self diffusion in the alpha and but
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ener	gy metal diffusion, uranium, metal phase system, activation
Gene	va Conference is paper no. 333 presented a
$\cdot \cdot $	Tailognault altonadt
trad	Laton Earlier data on the self die wo low-temperature phases of
on th	Apparatus was developed in which the self-diffusion ficient was calculated from the rate of change of the a activity he surface of the sample during the course of annealing, as well
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The test procedure	phy of the surface of the sa single crystals, polycrysta d polycrystalline samples wi	th imperfect grains
are described m	a magualte of	11'Om the autoradiogname
a-uranium, but the establish the direct coefficients. The of -750C from the van x 10 ⁻¹¹ cm ² sec. Th of anisotropy of se Orig. art. has: 7	e results for α -uranium are f e results for β -uranium are f experimental conditions did ctions with the maximum and m coefficient obtained for the riation of the α activity lie he results demonstrate convin elf-diffusion in the α and β figures, 4 formulas, and 1 t	not make it possible to ninimum self diffusion temperature range 700 is in the range (26) ncingly the presence
a-uranium, but the establish the direct coefficients. The of -750C from the var x 10 ⁻¹¹ cm ² sec. The of anisotropy of sec.	experimental conditions did ctions with the maximum and m coefficient obtained for the riation of the α activity lie be results demonstrate convin	not make it possible to ninimum self diffusion temperature range 700 is in the range (26) ncingly the presence

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L 9558-66 EWT(m)/EPF(n)-2/EWP(t)/EWP(b) LJP(c) ES/JD/WW/JG/GG ACC NR: AP5026444 SOURCE CODE: UR/0089/65/019/004/0372/0380 AUTHOR: But TO B D
ACC NR: $AP5026444$ AP5026444
SOURCE CODE: UR/0089/65/019/004/0372/0480
AUTHOR: Butra, F. P.; Yevkina, Z. F.; Fufayeva, O. L.; Korobeynikov, I. A.; 49
Lobodan Dura, F. P.: Ievkina, Z. F.: Fufayeya, O. L. : Kombany
Debedev, L. M. 53
541 IS 55 R
ORG: none
TITLE: The effect of temperature and neutron irradiation on plastic deformation of
allow ine effect of temperature and neutron irradiation on allocation
alpha uranium monocrystals 4
SOURCE: Atomnaya energine v 10 m h 100m
SOURCE: Atomnaya energiya, v. 19, no. 4, 1965, 372-380
TOPIC TAIS: modent and
TOPIC TAGS: radiation defect, radiation damage, neutron bombardment, uranium
ABCITE A CT
ABSTRACT: The effect of temperature, crystal orientation, and neutron irradiation on the plastic deformation of alpha uranium monocrystals was down to
the plastic deformation of alpha uranium monocrystals was investigated. The shape of deformation curves of unirradiated samples was explained in the shape of
the stress-strein curves of and and the share of i
delormation modes may and the state
vestigated on 0 x 1 for effect of heutron irradiation on plastic deformation was a
lizetion my X 1.9 X 0.4-0.5 mm monocrystalline samples group by a
vestigated on 9 x 1.5 x 0.4-0.5 mm monocrystalline samples grown by $\beta \rightarrow \alpha$ recrystal- lization. The samples were exposed to integrated fluxer (put) we have
to 4x 10 mcmsight temporopromanation and 1
and metallographic investigation in a subjected to tensile tests Y your
Uton occurred by alte alter and the second s
nyt, reaching still along the plane (010) the yield point increased notific deformation
nvt, reaching saturation at 10^{17} n/cm ² . Irradiation caused a 3-5-fold increase in
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of the samples. SUB CODE: SS/				a one med	hanical	Annealir properti	ng at Les
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L 29797-66 EWT(1)/EWT(m)/T/EWP(t)/ETI ACC NR: AP6015064 IJP(c) JD/JG/GG (A) SOURCE CODE: UR/0363/66/002/005/0829/0832 AUTHOR: Budnikov, P. P.; Kushakovskiy, V. I.; Sandulov, D. B.; Butra, F. P. 46 ORG: Moscow Chemical Engineering Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut) TITLE: Growing of beryllium oxide single crystals AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 5, 1966, 829-832 SOURCE: TOPIC TAGS: beryllium compound, single crystal growing, cyptallization ABSTRACT: Beryllium oxide single crystals were grown by the vaporization-condensation method in a stream of moist air at 1400-1600°C. The crystals obtained had various forms (prisms, whiskers, plates). X-ray analysis revealed that the direction of growth of prismatic and filamentary crystals coincides with the direction of crystallographic axis c. High-temperature thermal tests showed that single crystals heated up to 1970, 2000, and 2100°C retained their form and transparency. X-ray diffraction showed that crystals heated to 2200°C lost their transparency and cracked due to the presence of discrete disoriented blocks in place of the single Card 1/2UDC: 556.45:548.55

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ACC NR: AP6015064

crystal. Crystallization of fused beryllium oxide from $2450-2500^{\circ}$ C produced coarse (2 × 2 × 2 mm), transparent grains which x-ray diffraction data identify as pseudocrystals. The disorientation of the blocks in the crystals is apparently due to a polymorphic transformation of beryllium oxide taking place during cooling of the single crystals. Orig. art. has: 3 figures and 1 table.

SUB CODE: 2011 #/ SUBM DATE: 02Aug65/ ORIG REF: 001/ OTH REF: 004

Card 2/2 /

APPROVED FOR RELEASE: 06/09/2000

6(6) AUTHORS:	05204 S0V/142-2-3-12/27 Budov, A.F., Butrim, Yu.I., Kovtun, P.S., Ryazantsev, V.Yu., Yanovskiy, V.
TITLE:	R Experimental Industrial Television Devices
PERIODICAL:	Izvestiya, vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 3, pp 361-363 (USSR)
ABSTRACT :	The authors describe briefly the experimental industrial televi- sion equipment "Ekran-1", "Ekran-2" and "Ekran-3" which were de- veloped at the Kafedra radiotekhnicheskikh ustroystv Khar'kovsko- go politichnicheskogo instituta imeni V.I. Lenina (Chair of Radio Engineering Equipment of the Khar'kov Polytechnic Institute imeni V.I. Lenin). The device "Ekran-1" was developed in 1956 for the visual control of the work of cutting tools on heavy boring and 170x159x355 mm and a weight of 7 kg. They are mounted directly at the tool rests. The camera commutator unit the control panel with the TV screen are mounted at the master control panel of the ma-
Card 1/3	chine tool. During 1957 and 1958 the experimental industrial TV devices "Ekran-2" and "Ekran-3" were developed. These devices are

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Experimental Industrial Television Devices

more universal and produce high-quality images at a distance of 100-150 m. Additional conventional TV sets may be used at distances of up to 1 km free the control unit. The "Ekran-2" may be used for televizing surgical operations. Fig.1 shows the TV camera used for the "Ekran-2" and "Ekran-3". It has the dimensions 110 x 120 x 300 mm and a weight of 3.5 kg. A vidicon pick-up tube is used. A 500 watt light source provides the necessary illumination of 500-1000 lux. With such an illumination the inertia of the vidicon tube is very low and even high --speed production processes may be observed clearly, All TV devices have interlaced image scanning of 600-626 lines. The receiver units of "Ekran-2" and "Ekran-3" are shown by photographs in figs.2 and 3. The interlacing parameters correspond to the USSR TV standard. The synchrogenerator of the industrial TV devices produces a simplified TV signal required for the synchronization of the additional TV sets connected to these devices. The synchrogenerator is composed of ten 6N1P tubes (including cathode followers). The number of bulky parts in the camera units was reduced to a minimur. The focussing of the pickup tube is achieved by an electric notor operated from the control

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Experimental Industrial Television Devices

panel. The conventional TV sets which may be connected to the "Ekran-2" and "Ekran-3" are fed from a transmitter, consisting of a master oscillator-multiplier (6Zh3P) and an output stage (6Zh2P). The "Ekran-2" device contains provisions for transmitting audio frequencies to the conventional TV sets connected to it. All TV devices receive power from the AC mains. In the "Ekran-1" and "Ekran-2" the feed units contain heater transformers and kenotron rectifiers with electronic stabilization which feed all anode circuits. In the "Ekran-3" germanium and selenium rectifiers are used. Electronic stabilization is used only for feeding the synchronization unit and the camera amplifier. A ferro-resonance voltage stabilizer feeds the entire device. All "Ekran" devices contain only four or five control knobs. The publication of this article was recommended by the Kafedra radiotekhnicheskikh ustroystv Khar'kovskogo instituta imeni V.I. Lenina (Chair of Radio Engineering of the Khar'kov Polytechnic Institute imeni V.I. Lenin). There are 4 photographs.

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SUBMITTED: July 24, 1958

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BUTRIMENKO, A.V.; LAZAREV, V.G.

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<u>L 34852-66</u> EWT(1)	-	
CONCE CODE: UR/0142/66/009/002/0214/0)223	i i
AUTHOR: Yakovlev, V. N.; Butrimenko, F. N.	11	
ORG: none	B	
TITLE: Repetition frequency dividers with square timing voltage		
SOURCE: IVIIZ Deltante		
SOURCE: IVUZ. Radiotekhnika, v. 9, no. 2, 1966, 214-223		-
TOPIC TAGS: frequency divider, repetition frequency divider, frequency div		·
ABSTRAGE and Antiparticle and a second secon	ision	
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douility caused by the amount of a statisticitzed, and a low division and		
and ambient	í	
ne timing voltage to some the second as equency divider is suggested in	hich	
enerator voltage; the resulting voltage is much closer to the perfect rectangu	ulse	
	uar inter	
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ACC NR: AT6014783

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of the system are self-oscillations in the neighborhood of the maximum. Using ztransforms, the dynamic behavior of the system is described by a (n + 1)-th order difference equation, which is transformed to a system of first-order equations in standard form. These equations describe a piece-wise affine mapping of the phasespace into itself. There is a switching hyperplane separating the half-spaces with positive and negative step width. Simple oscillations of period 2 1 T (1 integer, T sampling period) are given in closed form. The necessary and sufficient existence conditions of these oscillations take the form of 1 inequalities, into which only the values of the z-transfer function of the linear unit in points of the unit circle enter. In second-order systems there are always oscillations with periods 4 T and 6 T, whereas oscillations with longer periods can exist only if the dynamic lag of the plant is large enough. All these oscillations are stable. Orig. art. has: 4 figures and 80 formulas. [Authors's abstract.]

والإورار والمعاوم مراجع المستحد المرد أراد المراجع

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 003/ SOV REF: 007

APPROVED FOR RELEASE: 06/09/2000

BUTRIMENKO, V.

For exemplary technical preparations of grain receiving stations for the procurement of grain in the 3d year of the seven-year plan. Muk.-elev. prom. 27 no.4:8-10 Ap '61. (MIRA 14:7)

1. Upravleniye elevatorno-skladskogo khozyaystva Ministerstva zagotovok RSFSR.

(Grain elevators)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307730012-8"

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a.

BUTRIMENKO, V.

Set an outstanding example in preparing the technological basis of the granaries of the Russian Federation for receiving the new grain of the seven-year plan. Muk.-elev. prom. 28 no.2:3-5 F '62.

(MIRA 15:3) 1. Upravleniye elevatorno-skladskogo khozyaystva Ministerstva zagotovok RSFSR.

(Grain--Storage)

BUTRIMENKO, V. A SHE MANDY

> Prepare the technological basis for the storage of 2.6 billion poods of grain in the Russian Federation. Muk.-elev. prom. 29 (MIRA 16:8) no.2:3-5 F '63.

1. Nachal'nik upravleniya elevatorno-skladskogo khozyaystva Vsesoyuznogo ob"yedineniya khleboproduktov. (Grain elevators)

CIA-RDP86-00513R000307730012-8

BUTRIMENKC, Y.P.

BUTR IMENKO. V.P., kand.sel'skokhozysystvennykh neuk; FILIPPOVA, V.S., red.; MAKSAYEV, A.V., tekhn.red.

[Clubs of young stockbreeders] Kruzhki iunykh zhivotnovodov. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 85 p. (MIRA 11:2)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye shkol. (Stock and stockbreeding)

FUITILMERIC, V.M.

SABONA, V.M.; BUTRIMENKO, V.P., kandidat sel'skokhozyaystvennykh nauk.

Training agricultural specialists. Nauka i pered.op.v sel'khoz.7 no.1:9-11 Ja '57. (MLRA 10:2)

1. Nachal'nik upravleniya podgotovki kadrov Ministerstva sel'skogo khozyaystva (for Butrimenko). (Agriculture--Study and reaching)

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USSR/Farm	Animals. Swine.	Q-2
Abs Jour:	Ref Zhur - Biol., No. 22, 1958, 101175	
Author :	Butrimenko, ¥.P.	
Inst :	A Construction of the second o	
Title :	The Interdependence of Fodder Utilization a Froductivity Level in Fattened Immature Sov	nd vs.
Orig Pub:	Zhivotnovodstvo, 1957, No. 9, 67-70	
Abstract:	Thirty hybrid piclets of Large White breed sows and Livny breed boars were divided int 2 groups. The 1st group consisted of high productive animals with average fodder expe- ditures amounting to 510.4 feed units and t 46.88 kg of proteins. The second group in- cluded animals of medium productivity with feed expenditures amounting to 399.9 feed	-y en- :0
Card 1/2	31	

(MIRA 11:9)

BUTRIMENKO, Y.P. Short account of the work of a pig tender. Politekh. obuch. no.8: 30-32 Ag '58.

(Swine)

CIA-RDP86-00513R000307730012-8

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KLIMOV, N.M.; BUTRIMENKO, V.P.; VSYAKIKH, A.S., prof.; LITOVCHENKO, G.R.; KOLOBOV, G.M.; KOZHEVNIKOV, Ye.V.; ALIKAYEV, V.A.; KRASNOV, V.S.; MAKAROV, A.P.; GRIGOR'YEV, Ye.P., red.; ROZIN, M.A., red.; GUREVICH, M.M., tekhn. red.

> [Animal husbandry] Zhivotnovodstvo. Moskva, Sel'khozgiz, 1959. 477 p. (MIRA 16:3) 1959. 477 p. (Stock and stockbreeding)

BUTRIMOVA, N.P.; MAKASHEV, K.K.

Effect of sodium salicylate on the development of experimental silicosis in white rats. Trudy Inst.kraev.pat. AN Kazakh. SSR 10:78-94 162. (MIRA 16:5) (LUNCS---DUST DISEASES) (SODIUM SALICYLATE---THERAPEUTIC USE)

CIA-RDP86-00513R000307730012-8



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BUTRIN, V., trener po plavaniyu

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"Teaching servicement to awim" by A.A.Van'kov, N.I.Plekhanov. Reviewed by V.Butrin. Voen.znan. 37 no.7:39 Jl '61. (MIRA 14:6) (Swimming) A.) (Plekhanov, N.I.) (Van'kov, A.A.)

BUTRIN, V., sud'ya vsesoyuznoy kategorii

For health, for life. Voen. znan. 39 no.6:29-30 Je '63. (MIRA 16:8) (Lifesaving)

BUTROM EYEV, N.F. TSYBIN, I.S., inzhener; BUTROMEYEV, N.F.; IVASHKO, V.N., redaktor

[Work of tractor driver V.M.Kolesnikov with a power scraper] Rabota traktorista V.M.Kolesnikova na traktornoi lopate. Moskva, Izd-vo dorozhno-tekhn. lit-ry, 1952. 28 p. [Microfilm] (MIRA 7:10)

1. TSentral'naya normativno-issledovatel'skaya stantsiya (for TSybin)

(Excavation)

BUTROV. M.V.

109-1-6/18

AUTHOR: Butrov, M.V.

TITLE: Symmetrical Iris of an Arbitrary Thickness in a Circular Waveguide (Simmetrichnaya diafragma preizvol'noy tolshchiny v kruglom volnovode)

PERIODICAL: Radictekhnika i Elektronika, 1958, Vol.III, Nr 1, pp.56-60 (USSR)

ABSTRACT: The system considered (see Fig.1) is a circular waveguide with a diaphragm (iris) having a thickness d . An incident wave of the H_{Ol} type having a unit amplitude, propagates

in the direction z , that is, from the left-hand side of the structure. The dimensions of the waveguide are such that the H_{Ol} wave is attenuated in the narrow part of the

structure. It is also assumed that the walls of the wave-guide and the diaphragm (iris) have an infinite conductivity. The solution of the problem is divided into three parts: (1) the region to the left of the iris, (2) the region in-side the iris, and (3) the region to the right of the iris. The propagation constant in the regions(1)and(3) is α and that of the region (2) is β . The solution of the wave

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103-1-6/18 Symmetrical Iris of an Arbitrary Thickness in a Circular Waveguide equation for the three regions for the $\mathbf{E}_{\boldsymbol{\phi}}$ component is expressed by Eqs.(1), where λ is the wavelength in free space, λ_{μ} is the wavelength in the waveguide, λ_{μ} is the nth root of the Bessel function J_1 , R is the voltage reflection coefficient of the obstacle (iris), and T is the transmission coefficient. The radial components of the magnetic field vector can be found from Eq.(2). By considering the boundary conditions at the edges of the iris $(z = \pm d/2)$, the constants of Eqs.(1) are expressed by Eqs.(3) where ρ is the coordinate of a point in the edge plane of the iris and the integrals are taken over an interval O to r_2 (r_2 is the radius of the iris). The analysis of the boundary conditions for the magnetic field components leads to a system of integral equations which, when combined with the coefficients of Eqs. (3), lead to two independent integral equations, having two unknown functions & (r) and **E**₂(r) . The equations can be transformed into the so-called stationary form and are then expressed by Eqs.(11) and (12). The field in the planes $z = \pm d/2$ can be approximated

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109-1-6/18 Symmetrical Iris of an Arbitrary Thickness in a Circular Waveguide quasi-statically, as shown by Eqs.(13), where P1,2 are the constants to be determined and $F_{1,2}$ is a function of d . By substituting Eqs.(13) into Eqs.(11) and (12) and carrying out the necessary integration, the desired solutions are in the form of Eqs.(14) and (15) while the constants P_1 are expressed by Eq.(16). From the above expressions it is found that the equivalent circuit of the iris, as referred to the cross-section z = 0, can be represented as shown in Fig.2, where z, T and R are expressed by Eq.(19), in which Φ is equal to the right-hand side of Eq.(14) and ϕ is equal to the right-hand side of Eq.(15). There are 2 figures and 1 Russian and 1 English reference. SUBMITTED: September 5, 1956

AVAILABLE: Library of Congress

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77790 SOV/109-5-2-23/26

AUTHOR: Butrov, M. V.

TITLE:

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On the Theory of Concentric Nonhomogeneities of a Finite Thickness in a Coaxial Waveguide (Brief Communication)

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Mr 2, pp 341-345 (USSR)

ABSTRACT: In a previous paper (this Journal, 1958, 3, 1, 56, "Symmetrical Diaphragm of Arbitrary Thickness in a Round Waveguide") the author demonstrated the application of the well-known variation method of Schwinger to the calculation of characteristics of nonhomogeneities in waveguides, which is applicable only to obstructions symmetrical with respect to a plane normal to the direction of wave propagation, and gives simple formulas of satisfactory precision, Card 1/10 permitting calculation of all parameters of equivalent

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On the Theory of Concentric Nonhomogeneities of 77790 a Finite Thickness in a Coaxial Waveguide (Brief SOV/109-5-2-23/26 Communication)

> quadrupoles. The present communication gives formulas for calculating basic parameters of a group of concentric obstructions of finite t thickness in a coaxial waveguide.



Fig. 1

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Dimensions a_1 , b_1 may be greater or smaller than a_1 , b_2 . In all three sections of the waveguide may exist basic TEM waves, and the waveguide may be of the propagating

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On the Theory of Concentric Nonhomogeneities of 77790 a Finite Thickness in a Coaxial Waveguide (Brist 207/109-5-2-23/26 Communication)

> or attenuating type. A dependence of components E and H on the angular velocity is excluded. The solutions of the wave equation satisfying the limit and radiation conditions can be written as:

Section 1:

Section 2:

$$\begin{split} B &= (D_0 e^{-ikz} - C_0 e^{ikz}) \frac{1}{\rho} + \frac{i}{k} \sum_{n=1}^{\infty} Z'_0 (v_n \underline{p}) \beta_n \left(C_n e^{\beta_n t_i} - D_n e^{-\beta_n t_i} \right), \\ H_{\varphi} &= (C_0 e^{ikz} + D_0 e^{-ikz}) \frac{1}{\rho} + \sum_{n=1}^{\infty} Z_0^1 (v_n p) \left(C_n e^{\beta_n t} + D_n e^{-\beta_n t_n} \right). \end{split}$$

 $E_{\rho} = \frac{1}{\rho} \left(e^{-ikz} - Re^{ikz} \right) + \frac{1}{k} \sum_{n=1}^{\infty} A_n \alpha_n Z_0 \left(\mu_n p \right) e^{\alpha_n z},$

 $H_{\varphi} = \frac{1}{p} \left(e^{-ikz} + Re^{ikz} \right) + \sum_{n=1}^{\infty} A_n Z_0'(\mu_n p) e^{\alpha_n z};$

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Section 3:

$$K_{\rho} = \frac{1}{p} T e^{-ik(z-d)} - \frac{i}{k} \sum_{n=1}^{\infty} B_n \alpha_n Z_0(\mu_n p) e^{-\alpha_n (z-d)}.$$

$$K_{\rho} = \frac{1}{p} T e^{-ik(z-d)} + \sum_{n=1}^{\infty} B_n Z_0(\mu_n p) e^{-\alpha_n (z-d)}.$$

where

$$a_n = \sqrt{\mu_n^2 - k^2}; \quad \beta_n = \sqrt{\nu_n^2 - k^2}; \quad \gamma_n! = \sqrt{(\lambda_n / b_1)^2 - k^2}; \quad k = 2\pi/\lambda;$$

Here, $Z'_{o}(\mu_{n}\rho)$, $Z'_{o}(\nu_{n}\rho)$ are eigenfunctions of bicylinders in sections 1, 3, 2; J_o is Bessel's function of the 1st order; μ_{n} are roots of the transcendental equation:

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On the Theory of Concentric Nonhomogeneities of a Finite Thickness in a Coaxial Waveguide (Brief Communication)

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$\mathcal{I}_{0}(\mu_{n}^{\prime}b) \mathcal{N}_{0}(\mu_{n}^{\prime}a) = \mathcal{I}_{0}(\mu_{n}^{\prime}a) \mathcal{N}_{0}(\mu_{n}^{\prime}b);$

 $u_{\rm n}$ are roots of the analogous equation for Section 2:

$J_0\left(\forall_n b_l\right) N_0\left(\forall_n a_l\right) = J_0\left(\forall_n q_l\right) y V_0\left(\forall_n b_l\right);$

 λ_n are zeros of function $J_o; N_o$ is Bessel's function of the 2nd order; R, T are coefficients of reflection and passage for the nonhomogeneity, respectively. Using the orthogonality of eigenfunctions, all coefficients of expressions of the tangential components of the electric and magnetic fields in Sections 1, 2, 3 can be expressed in terms of the tangential components of the electric field $\mathcal{E}_1(\rho)$ and $\mathcal{E}_2(\rho)$ in planes

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On the Theory of Concentric Nonhomogeneities of 77790 SOV/109-5-2-23/26 a Finite Thickness in a Coaxial Waveguide (Brief Communication)

> z = 0 and z = d, respectively. They may be expressed through the magnetic field components as well. Introducing combinations $\mathbf{\mathcal{G}}_0 = \mathbf{\mathcal{G}}_1 + \mathbf{\mathcal{G}}_2, \ \mathbf{\mathcal{G}}_e = \mathbf{\mathcal{G}}_1$ - $\boldsymbol{\delta}_2$ and following the procedure outlined in the above-mentioned work of the author, the following equations are derived:

$$\frac{1-R-T}{1+R+T} = \frac{P_e \ln \frac{b_1}{a_1}}{\ln \frac{b_1}{a_1} \sum_{n=1}^{\infty} \left(S_{ne} + \operatorname{cth} \frac{\beta_n d}{2} L_{ne}\right) - i P_e \ln \frac{b}{a} \operatorname{ctg} \frac{k d}{2}};$$
(1)

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$$\frac{1-R+T}{1+R-T} = \frac{P_0 \ln \frac{\theta_1}{a_1}}{\ln \frac{b_1}{a_1} \sum_{n=1}^{\infty} \left(S_{n_1} + \ln \frac{\beta_n d}{2} L_{n_0}\right) + iP_0 \ln \frac{b}{a} \lg \frac{kd}{2}};$$
(1)

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On the Theory of Concentric Nonhomogeneitles of a Finite Thickness in a Coaxial Waveguide (Brief Communication) 77790 30V/109-5-2-23/26

 $\frac{1-R-T}{1+R+T} = \frac{\frac{P_e}{\sum_{n=1}^{\infty} \left(S_{ne} + M_{ne} \operatorname{clh} \frac{T_n^d}{2}\right)}}{\sum_{n=1}^{\infty} \left(S_{ne} + M_{ne} \operatorname{clh} \frac{T_n^d}{2}\right)};$ (3) $\frac{1-R+T}{1+R-T} = \frac{P_0}{\sum_{n=1}^{\infty} \left(S_{n0} + M_{n0} \operatorname{th} \frac{T_n^d}{2}\right)}.$ (4)

The following notations are used above:

$$P_{0, e} = -\frac{i}{\ln \frac{b}{a}} \left[\int \mathcal{E}_{0, e} \, dp \right]^2; S_{0, e} = \frac{k}{s_n a_n} \left[\int \mathcal{E}_{0, e} \, pZ'_0(\mu_n \, p) \, dp \right]^2;$$
$$I_{0, e} = \frac{k}{\beta_n P_n} \left[\int \mathcal{E}_{0, e} \, pZ'_0(\nu_n \, p) \, dp \right]^2; M_{0, e} = \frac{k}{\gamma_n r_n} \left[\int \mathcal{E}_{0, e} \, pJ'_0(\frac{\lambda_n p}{b_1}) \, dp \right],$$

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where

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On the Theory of Concentric Nonhomogeneities of 77790 a Finite Thickness in a Coaxial Waveguide 50V/109-5-2-23/26 (Brief Communication)

$$p_{n} = \frac{1}{2} \left[b_{1}^{2} Z_{1}^{2} (v_{n} b_{1}) - a_{1}^{2} Z_{1}^{2} (v_{n} a_{n}) \right]; r_{n} = \frac{1}{2} b_{1}^{2} J_{1}^{2} (\lambda_{n});$$
$$s_{n} = \frac{1}{2} \left[b^{2} Z_{1}^{2} (u_{n} b) - a^{2} Z_{1}^{2} (u_{n} a) \right]$$

The integrals of (1) to (4) are taken in the tangential plane z = 0 (z = d) in the 'blearance area'' (where $\tilde{\omega}_{0e}(\rho)$ are different from zero). As an example for $b = b_1$, $a_1 > a$, inserting selected values of \hat{a}_{0e} into (1) and (2) and integrating

between limits a₁ to b, it is found that the equivalent scheme of the obstruction is a shunt resistance:

$$Z_L = 2i \ln \frac{b}{a} \frac{A^2 + \ln^2 \frac{b}{a_1}}{A \ln^2 \frac{b}{a_1}}.$$

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On the Theory of Concentric Nonhomogeneities of a Finite Thickness in a Coaxial Waveguide (Brief Communication)

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for d satisfying requirement:

$$\ln \frac{b}{a_1} \lg \frac{kd}{2} = -k \sum_{n=1}^{\infty} \frac{1}{s_n \alpha_n \mu_n^2} [Z_0(\mu_n b) - Z_0(\mu_n a_1)]^2 = -A.$$

For arbitrary d values the equivalent scheme is a Π -type or T-type quadrupole, whose elements can be found for given values of R and T. As another example, it is assumed that $a_1 = 0$, $b = b_1$, with waves in Section 2 being attenuated. Substituting $\mathcal{E}_{0,e} = \frac{a_o}{\rho}$ into (3) and (4), it is found that:

$$\frac{1-R-T}{1+R+T} = -\frac{i}{k} \frac{\ln \frac{b}{a}}{\sum_{n=1}^{\infty} b^3 \frac{\cosh \frac{\gamma_n d}{2}}{\gamma_n r_n \lambda_n^2} J_0^2 \left(\lambda_n \frac{a}{b}\right)} \qquad \frac{1-R+T}{1+R-T} = -\frac{i}{k} \frac{\ln \frac{b}{a}}{\sum_{n=1}^{\infty} b^3 \frac{\ln \frac{\gamma_n d}{2}}{\gamma_n r_n \lambda_n^2} J_0^2 \left(\lambda_n \frac{a}{b}\right)}$$

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On the Theory of Concentric Nonhomogeneities of a Finite Thickness in a Coaxial Waveguide (Brief Communication)

77790 sov/109-5-2-23/26

The equivalent scheme in this case is T-type quadrupole with inductance elements. There are 2 figures; and 4 references, 3 Soviet, 1 German.

SUBMITTED:

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April 9, 1959

Card 10/10

81370 \$/046/60/006/01/02/033 B008/B011

24.1200

AUTHOR: Butrov, M. V.

TITLE:

E: Diffraction of a Scalar Wave in a Slit and in a Round Opening of a Screen of Arbitrary Thickness

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 1, pp. 16 - 22

TEXT: By means of the well-known method devised by Levine-Schwinger, steady-state formulas were set up for the transmission coefficient through a slit and through a round opening in a screen of arbitrary thickness (Fig. 1). The transmission coefficient through a slit in a screen of finite thickness has the form (17'): $t = -\frac{k}{2a}$ Im (P + S).

P and S are the complicated fractions appearing in formulas (13) and (14) (the right-hand sides, divided by 2ik). By introducing formulas for P and S on the assumption of d = 0, one obtains the formula for the transmission coefficient through a slit in an infinitely thin screen:

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Diffraction of a Scalar Wave in a Slit and in a Round Opening of a Screen of Arbitrary Thickness 81370 s/046/60/006/01/02/033 b008/b011



This formula fits the one obtained for infinitely thin screens with the aid of the variation method (e. g., Ref. 3). In a general case of finite d, the transmission coefficient t at a round opening has the form (24): $t = -\frac{k}{\pi a^2}$ Im (M + N). M and N are the right sides of formulas (21) and (22) divided by 2ik. Fig. 2 shows curves for the dependence of the transmission coefficient on the thickness of the screen and on the diameter

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Diffraction of a Scalar Wave in a Slit and in a Round Opening of a Screen of Arbitrary Thickness

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of the opening for the case of a comparative function for a field in the opening plane. There are 2 figures and 6 references: 2 Soviet, 1 German, 2 American, and 1 Italian.

Ryazanskiy radiotekhnicheskiy institut ASSOCIATION: (Ryazan' Radiotechnical Institute)

SUBMITTED: April 10, 1959

Card 3/3

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CIA-RDP86-00513R000307730012-8

BUTROV, M.V.; VOLGOV, V.A.; SUSLONOV, S.A.

Problem concerning the training of radio engineers. Izv. vys. ucheb. zav.; radiotekh. 4 no.4:503-504 Jl-Ag '61. (MIRA 14:11)

1. Ryazanskiy radiotekhnicheskiy institut. (Radio)

CIA-RDP86-00513R000307730012-8

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34042 S/109/62/007/001/021/027 D266/D301

AUTHOR: Butrov, M.V.

TITLE:

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Scattering of electromagnetic waves by intersecting cylinders

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 1, 1962, 167 - 168

The purpose of the paper is to generalize Row's solution to TEXT: intersecting cylinders. The solution is restricted to two dimensions (both the cylinders and the line source are assumed infinitely long) and identical perfectly conducting cylinders. The author's starting point is Row's equation

$$\Psi(\vec{r}) = \Psi^{\text{inc}}(\vec{r}) + \frac{1}{2\pi} \sum_{n} \sum_{C_n} I_n(\varphi_n) G(\vec{r}, \vec{r}') d\varphi_{n'}$$

where $\Psi(\vec{r}) - z$ component of the electric intensity at the point r, $\Psi^{inc}(\vec{r})$ - the field that would exist at the point r if no obstacles Card 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307730012-8"

(1)

Scattering of electromagnetic ...

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were present, $I_n - surface$ current on the n-th cylinder, $G(\vec{r}, \vec{r'}) -$

the appropriate Green function, C_n - the open part of the circumference of the n-th cylinder. Following Row's method the surface current on each cylinder is expanded into a complex Fourier series and after lengthy and laborious manipulations, a linear equation system is obtained from which the Fourier coefficients can be determined [Abstractor's note: Nothing is mentioned about the actual nume-rical evaluation]. It is shown that the author's formulas yield those of Row in the case when the cylinders are separated. There are 1 figure and 1 non-Soviet-bloc reference. The reference to the English-language publication reads as follows: R.W. Row, Theoretical and experimental study of electromagnetic scattering by two identical conducting cylinders, J. Appl. Phys., 1955, 26, 6, 666.

May 22, 1960 SUBMITTED:

Card 2/2

BUTROVSKI, D.

"Tumours of testicle in the dog." Inst. for Patho-anatomy, Vet. Fac., Univ. of Zagreb. Vet. Archiv. 23 : 173-183, 1953

BUTRUK, Eugeniusz; KHOTKIEWSKI, Marcin

Role of the adrenal cortex in the pathogenesis of obesity. Pol. arch. med. wewnet. 34 no.8:1031-1035 '64.

1. Z II Kliniki Chorob Wewnetrznych Studii Doksztalcania Lekarzy Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. E. Ruzyllo).

BUTRYAKOV, A.G. (g. Kovrov Vladimirskoy oblasti)

Gloxinia as a subject for the study of vegetative propagation. Biol. v shkole no.1:85-86 JacF ⁶63. (MIRA 16:6)

(Gloxinias) (Plant propagation)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307730012-8

MEL'NIKOV, N.N.; GALASHINA, M.L.; BUTRYAKOVA, Z.V.

Synthesis of some bis-(alkyl xanthogen)-tri- and tetrasulfides as experimental defoliants and desiccants. [Trudy] NIUIF no.171:138-142 '61, (MIRA 15:7) (Defoliation) (Drying agents) (Sulfides)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307730012-8"

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BUTREN, Bozena

Statistical des concerning the in Sidence of arbitrarilis in build of the Parentes region in 295-4565. A.S. (4. 10 no.4:195 Pet

1. Wojewodzk' faktad Higieny Wetargranyjaej, Balowice.

BUTS, M.A. -

> Scientific achievements must be utilized in practice. NTO 3 no.4:5 Ap 161. (MIRA 14: (MIRA 14:3)

1. Chlen soveta pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva sovkhoza "Kiyevskaya ovoshchnaya fabrika". (Kiev Province-State farms)

CIA-RDP86-00513R000307730012-8

ANSBERG, Ye.A., assistent; BOROVITSKIY, V.P., dots.; BUTS, Sh.F., dots.; Prinimali uchastiye: SERGEYEV, V.A., dots.; SAMARINA, V.S., st. nauchn. sotr.; SKORYNINA, N.P., red.

> [Practice in general hydrogeology] Praktikum po obshchei gidrogeologii. Leningrad, Izd-vo Leningr. univ., 1965. 231 p. (NIRA 18:4)

 Kafedra gidrogeologii Leningradskogo gosudarstvennogo universiteta im. A.A.Zhdanova (for Buts, Ansberg, Sergeyev).
Institut Zemnoy kory, Leningrad (for Samarina).
Gornyy institut, Leningrad (for Borovitskiy).

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307730012-8"

ANDREYEV, N., prof.; BUTS, N., agronom

Ammonia as fertilizer. Zemledelie 27 no.6:73 Je '65. (MIRA 18:9)

; BUTS, V.D. James a Start Start College and Further development of automatic control, telemechanics, and com-munication systems. Zhel.dor.transp. 37 no.1:63-67 Ja '56. (MLRA 9:3) 1. Nachal'nik Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya. (Railroads--Signaling) (Railroads-Communication systems) .

BUTS, V.D.

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For wider use of new equipment. Avtom., telem. i sviaz' no.l:1-3 Ja 157. (MLRA 10:4) Ja 157.

1. Nachal'nik Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.

(Railroads--Signaling)

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BUTS, V.D., inchener.

Weissig Communications and signaling on the railroads of the German Democratic Republic. Avtom., telem.i sviaz' no.6:44-47 Je '57. (MIRA 10:7)

(Germany, East--Railroads--Signaling)

BUTS, V.D.

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Mechanization of communication line work. Avtom., telem. i sviaz' (MIRA 13:1) 2 no.3:38 Mr '58.

> 1.Zamestitel' nachal'nika Glavnogo upravleniya signalizatsii i svyazi. (Railroads--Electric equipment)

Bre-

Bring the preparations for the winter to a successful end. Avtom., telem. i sviaz' 2 no.10:4-5 0 '58. (MIRA 11:1 (MIRA 11:10)

l.Zamestitel' nachal'nika Glavnogo upravleniya signalizatsii i svyazi.

(Railroads--Signaling)

BUTS, V.D.

Brigade method of overall servicing of signaling and communication devices. Avtom., telem.i sviaz 3 no.9:20 5 '59. (MIRA 13:2)

1. Zamestitel' nachal'nika Glavnogo upravleniya signalizatsii i svyazi.

(Railroads -- Signaling) (Railroads--Communication systems)

BUTS, V.D., insh. THE REPORT OF A PROPERTY AND

Further development of radio relay communication systems. Zhel.dor.transp. 41 no.3:47-50 Mr '59. (MIRA 12:6) (Radio relay systems) (Railroads--Communication systems)

BUTS, V.D.

Mechanization of repair operations and continuous maintenance of signaling and communication lines. Avtom., telem. i sviaz' 4 no.4:6-8 Ap 160. (MIRA 13:6)

1. Zamestitel' nachal'nika Glavnogo upravleniya signalizatsii i svyazi Ministerstv_B putey soobshcheniya. (Railroads--Signaling) (Railroads--Communication systems)

BUTS, V.D.

Intensive attention should be given to winter preparations. Avtom. telem. i sviaz! 4 no.9:1-2 S '60. (MIRA 13:9)

1. Zamestitel' nachal'nika Glavnogo upravleniya signalizatsii i svyazi Ministerstwa putey soobshcheniya. (Railroads--Cold weather operations)