

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928320002-5

FAGURER, Petr, KVITA, Vratislav
Mysicatic effect of certain quinoline derivatives. Gesk.dem. () no.4:220-222 Aug 56.
1. Krajske hygienicko-epid. stanice Knv Fraha, reditel MUDT hydotha, a s II, kosni klin. SN v Frate, predn. prof. MUDT hydothamn (for Fragure) 2. 2 Vyskumeho ustavu pro farmacii a biochasil v Prace (for Kvita)
(QUIRUSS, eff.
B. Aydroxyquinoline & deriv., mycostatic eff. (Cz))
(FUNGI, eff. of drugs on B-hydrosyquinoline & deriv., mycostatic eff. (Cz))

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KVITA, V.; WEICHET, J.; TROWA, V.

"Studies on the vitamin K and vitamin E series. I. An improved preparation of Vitamin K1. II. Synthesis of the vitamin K analogs with a more simple side chain. In German.

P. 583. Journal on chemistry and biochemistry issued by the, (Czechoslovak Academy of Sciences.) Vol. 22, no. 2, Apr. 1957.

SO: Monthly Index of East European Accession (FEAI) LC, Vol. 7, No. 5 May 1958

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- KVITA, VRATISLAV						
CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.						
Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25084						

Author : Kvita Vratislav, Weichet Jaroslav Inst :

- Inst : -Title : New Method for the Preparation of 5-Methyl-Cyclohexanedione-1,3
- Orig Pub : Chem. listy, 1957, 51, No 2, 380-381; Sb. chekhosl. khim. rabot, 1957, 22, No 3, 1064-1065
- Abstract : To Na-malonic ester (from 18 g Na and 132.6 g malonic ester) are added, at 90° and within 45 minutes, 78 g pentene-2-one-4, after which the mixture is heated for 6 hours on a boiling water bath with 500 ml 18% aqueous NaOH, to get 5-methyl-cyclohexanedione-1,3 (I) in the form of the monohydrate, yield 70.5%, MP 75-85°. By recrystallization of monohydrate from CH,COOC₂H₅ is obtained the anhydrous <u>I</u>, MP 126-127°; dioxime, MP 155°.

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KVITA, V.; KEJHA, J.

Use of polyphospheric acid in organic synthesis. p. 164.

CHEMICKE LISTY. (Ceskoslovenska akademie ved. Chemicky ustav) Praha, Czechoslovakia, Vol. 53, no. 2, Feb. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol 8, no. 11, Nov. 1959 uncl.

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KVITA, V.; WEICHET, J.

Section 1

这一个人的问题,我们的问题,我们的问题,

Studies in vitamin K and vitamin [series. IX. Total synthesis of dihydrophytol. Coll Cz Chem 25 no.1:254-258 Ja '60. (KEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag. (VITAMIN K) (VITAMIN E) (DIHYDROPHYTOL)

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SMOLIK, S.; KVITA, V.; WEICHET, J.; TRCKA, V.

Studies in vitamin K and vitamin E series. X. Synthesis of vitamin K_1 analogue with unbranched side chain. Coll Cz Chem 25 no.1:259-264 Ja *60. (EEAI 9:12)

1. Forschungsinstitut fur Parmazie und Biochemie Prag. (VITAMIN K) (VITAMIN E) (VITAMIN K₁)

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CIA-RDP86-00513R000928320002-5

WEICHET, J.; BLAHA, L.; KVITA, V.

Studies in the vitamin K and vitamin E series. XII.Synthesis of 2-methyl-3-difarmesol-1,4-maphthoquimone and related compounds. Goll Cz Chem 25 mo.7:1914-1921 Jl '60. (REAI 10:9)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

(Vitamin K) (Vitamin E) (Methyl group) (Farmesol) (Naphthoquinone)

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NEW BERCHARDEN **空空空空空车**部的12000 KUITA, V. •7 HACH, V.; KVITA, V.; KOLINSKY, J.; MACEK, K. CSSR no academic degrees indicated Drugs (Lecive), Dolni Mecholupy (for Hach, Kvita, Kolinsky). Research Institute for Pharmacy and Biochemistry, Prague (for Macek) Prague, Collection of Czechoslovak Chemical Communications" No 1, 1963, pp 266-271 "Contribution to Bromization in the Acetophenon Series" (4)

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CIA-RDP86-00513R000928320002-5

HACH, V; KVITA, V; KOLÍNSKÝ, J. Czechoslovakia Lěčiva, Dolní Měcholupy, near Prague - (for all) Prague, <u>Collection of Czechoslovak Chemical Communications</u>, No 4, 1963, pp 855-861 "Antimicrobe Active Derivates of p-DichHoracetaminobenzoic Acid." Л,

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HACH, V.; KVITA, V.; KOLINSKY, J.; MACEK, K.

Contribution to the bromination in the acetophenone series. Coll Cz Chem 28 no.1:266-271 Ja '63,

1. Leciva, Dolni Mecholupy (for Hach, Kvita and Kolinsky). 2. Forschungsinstitut fur Pharmazie un Biochemie, Prag (for Macek).

APPROVED FOR RELEASE: 06/19/2000

HACH, V.; KVITA, V.; KOLINSKY, J.

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Active animicrobic derivatives of p-dichloracetamidobenzoic acid. Coll Cz Chem 28 no.4:855-862 Ap '63.

1. Leciva, Dolni Mechnolupy bei Prag.

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HACH, V., KVITA, V.

Data on the preparation of 2-formyl-1-methylpyridinium oxime iodine. Cesk. farm. 13 no.8:399-400 0 '64.

1. Leciva n.p. Praha.

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CZECHOSLOVAKIA
.VUITA, V.; HACL., V.; KAKAC, B.; KOLINSKY, J.
Lecive., Johni Mecholupy and Research Institute for
Pharmacy and Biochemistry - (for all).
Prague, <u>Collection of Czechoslovsk Chemical Communications</u>, No 11, November 1965, pp 3767-3771.
"Synthesis of (±)-4-methyllobeline."
(1)

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CIA-RDP86-00513R000928320002-5

KVITAISHVILI, I.G.

Changes in the total protein and protein fractions of the blood serum in scarlet fever. Soob. AN Gruz. SSR 39 nc.3: 607-611 S 165. (MIRA 18:10)

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	KVNASHVIL USSR/Medicin	н, е -	G V Scarlet fever	FD-2301	
	Card 1/1		Pub 148 - 2/36		
	Author	:	Kvitashvili, G. V.; Elizbarashvili, Zedaniya, G. M.	L. N.; Bibineyshvili, M. V.;	
	Title	:	The clinical and epidemiological char on the basis of data collected at a during 1931-1947	racteristics of scarlet fever clinic of infectious diseases	ć
-	Periodical	:	Zhur. mikro. epid. i immun. No 2, 10	-13, Feb 1955	
	Abstract	:	Outline the clinical and epidemiology in Tbilissi during 1931-47, consider ease as a single, uninterrupted epide over 14 years. State that the average fever during this period was 8.9% and the disease became milder, i.e. produ- infection towards the end of the period	ing infection with this dis- emiological process extending ge lethality from scarlet d that the causative factor of uced a less severe form of the	
	Institution	:	Clinic of Infectious Diseases, Tbilis	ssi Medical Institute	
	Submitted	:	August 10, 1953.		
	с. 				

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Country : USSR Category: Virology. Bacterial Viruses (Phages) Abs Jour: Ref Zhur-Biol, No 23, 1958, No 103470 Author : Kvitashvili, G.V. Inst : Title : Indications for the Use of Dysentery Phage and Its Therapeutic Effectiveness Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957, 269-273

Abstract: Comparative data are presented on the treatment of patients with acute dysentery with phages, antibiotics and sulfonamides. The best effect was obtained through the use of phage. The effectiveness of phage was greater in the treatment of adults than

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Country : USSR Category: Virology. Bacterial Viruses (Phages) Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103470

> of children, and when the phage was given on the first to third day of the disease. -- Ya. I. Rautenshteyn.

Card : 2/2

KVITASHVILI, G. V.

"Indications to the use of dysentery bacteriophage and its therapeutic effectiveness."

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

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CIA-RDP86-00513R000928320002-5

KVITCHASNYY, G.J. GHURSIN, V.M.; IVITCHASHIT, G.I. Norking experience of a mixed team in saving metal. Ldt.proisv. no.6:30-31 S '54. (NURA 7:10) (Founding)

APPROVED FOR RELEASE: 06/19/2000



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KVITCHENKC, I. P., Engr.; BELIKOV, Ye. I.
"Work organization in the drying section of the plant 'Krasnaya Zvezda'"
Ogneupory, No. 1, 1948.

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ana ana amin'ny fantana amin'ny fantana amin'ny fantana amin'ny fantana amin'ny fantana amin'ny fantana amin'ny KVITCHENKO, I. P. PA 12/49T59 USSR/Engineering Sep 48 Ceramics, Firing "Firing Ware in the 'Krasnaya Zvezda' Plant," I. P. Kvitchenko, Engr, 3 pp "Ogneupory" Vol XIII, No 9 Describes firing routine and relative cost of each stage; with graphs and diagrams. 12/49759

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CIA-RDP86-00513R000928320002-5

181745 KVITCHENKO I. P. Mar 51 USSR/Engineering - Refractories, "Utilization of the Heat of Waste Gases in Periodic Kilns," I. P. Kvitchenko "Ogneupory" No 3, pp 99-103 To decrease heat losses in waste gases of periodic kilns, constructed air heater (recuperator) to supply hot air for tunnel driers. Device is installed in smoke flues of periodic kilns. Use of waste gases eliminates operation of flame heater to supply driers with hot air, and conserves fuel. Describes constr and operation. 181745___

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KVITCHENKO, I.P.

Manufacture of highly aluminous products from native, highly aluminous raw materials in the Chinese People's Republic. Ogneupory 21 no.5:234-235 '56. (MLRA 9:10)

(China--Refractory materials)



CIA-RDP86-00513R000928320002-5



APPROVED FOR RELEASE: 06/19/2000

PERIODICAL: Ogneupory, 1958, Nr 1, pp. 35 - 39 (USSR) ABSTRACT: The constructors of the factory together with the laborers equipation of the factory together with the laborers equipation of the factory together with the laborers equipation of the facilities for the mechanized supply of the mass to the model of the factory prepared in the pan grinder is after sifting supplied to a distributing bunker from where it is led to the mold by means of channel. The movable mold is represented in figure 2. The eject mechanism is to be seen in figure 3. The scheme of the device faking out the ready-pressed beam is recorded in figure 4. The process of the manufacture of a glass beam on the more is a scheme of the more is the more	UTHOR:	Kvitchenko, I. P. 131-1-8/14
PERIODICAL: Ogneupory, 1958, Nr 1, pp. 35 - 39 (USSR) AB3TRACT: The constructors of the factory together with the laborers equi the 750 t friction press with an ejector mechanism, a movable m with facilities for the mechanized supply of the mass to the mo- and for taking out the pressed beam (figure 1). The mass of fin- clay prepared in the pan grinder is after sifting supplied to a distributing bunker from where it is led to the mold by means of channel. The movable mold is represented in figure 2. The eject mechanism is to be seen in figure 3. The scheme of the device f taking out the ready-pressed beam is recorded in figure 4. The process of the manufacture of a glass beam on the more in figure 4.	[PLE:	An Attempt of Pressing Fire-Clay Beams for Glass Melting Furnaces on a 750 t Friction Press (Opyt pressovaniya shamotnykh brus'yev dlya steklovarennykh pechey na 750 t friktsionnom presse)
the 750 t friction press with an ejector mechanism, a movable m with facilities for the mechanized supply of the mass to the mo and for taking out the pressed beam (figure 1). The mass of fin clay prepared in the pan grinder is after sifting supplied to a distributing bunker from where it is led to the mold by means of channel. The movable mold is represented in figure 2. The eject mechanism is to be seen in figure 3. The scheme of the device f taking out the ready-pressed beam is recorded in figure 4. The process of the manufacture of a glass beam on the more in the scheme of the sc	RIODICAL:	
with a mixture of petroleum and stearin in the ratio 90:10; 2.) an extension piece guaranteeing the reception of the requir quantity of mass for the given beam is mounted on the requir		The constructors of the factory together with the laborers equipper the 750 t friction press with an ejector mechanism, a movable mole with facilities for the mechanized supply of the mass to the mold and for taking out the pressed beam (figure 1). The mass of fire- clay prepared in the pan grinder is after sifting supplied to a distributing bunker from where it is led to the mold by means of a channel. The movable mold is represented in figure 2. The ejecting mechanism is to be seen in figure 3. The scheme of the device for taking out the ready-pressed beam is recorded in figure 4. The process of the manufacture of a glass beam on the press is as fol- lows: 1.) Before filling the press with mass its walls are smeared with a mixture of petroleum and stearin in the ratio 90:10; 2.) an extension piece guaranteeing the properties of the the

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	extension, i.e. to 150 to 250 mm, takes place slowly. Then the ex- tension piece is taken off and the pressing is finished with $5 - 6$ blows;
	4.) the first beam pressed is weighed and the quantity of mass is correspondingly corrected.
	The layer for glass-beaus consists of fire-clay of the clay Ψ_{-1-65} is and of the clay Ψ_{-1-15} is. The fire-clay granulation, opti- num moisture content of the mass, and the dross density are given. The dimensions of the pressed beam are 503 x 402 x 303 mm, its weight 132 - 136 kg. It possesses exact angles and surfaces and its outward appearance is much better than that of a stamped beam. The press is operated by three workers and the attained output is 60 beams or 8 t repectively per layer. The physical-chemical cha- racteristics of the glass beam are given in the table. There are 4 figures, and 1 table.
	Semilukskiy ogncupornyy zavod (Semiluki Refractory Products Plant)
VAILABLE:	Library of Congress
Ourd 2/2	1. Beams-Processing 2. Rofractory materials

APPROVED FOR RELEASE: 06/19/2000

131-23-5-3/16 Kvitchenko, I. P., Markevich, I. S. AUTHORS: Shaferman, M. Ya. Application of Natural Gas in the Manufacturing of Fire-TITLE: Clay Products (Primeneniye prirodnogo gaza v proizvodstve shamotnykh izdeliy) Ogneupory, 1958, Vol. 23, Nr 5, pp. 201-204 (USSR) **PERIODICAL:** The thermal power of the natural gas from the Stavropol' **ABSTRACT:** place of discovery is 8500 kcal/ m². Its chemical composition in % is: $CH_4 - 97,8$; $C_2H_6 - 05$; $C_3H_8 - 0,3$ $C_4H_{10} - 0,1$; $N_2 - 1,3$. The work department n. 5 of the Semiluksk works has rotary driers, air heaters for tunnel drying plants, periodic kilns for burning products and clay into fire-clay, shaft furnaces, an annular kiln and a central boiler plant. The department needs 4500 m3 of natural gas per hour for firing the above aggregates. The pressure in the gas line for natural gas is 4-6 atmospheres excess pressure. In the heat plants with high gas consumption RD pressure regulators are used additionally. In figure 1 such a pressure regulator, built into an annular kiln, is shown. Periodic kilns and rotary driers are equipped Card 1/2with low-pressure torches which permit to regulate the gas

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Application of Natural Gas in the Manufacturing of Fire- 131-23-5-3/16 Clay Products

> supply from 10 to 60 m³ / per hour (figure 2). The firings of the steam boilers as well as of the rotary driers and heaters are equipped with gas burners of the type Tsarik as can be seen from figure 3. In figure 4 the scheme of the gas supply to the chamber of an annular kiln is shown. A gas firing for a 100 ton periodic kiln can be seen in figure 5, and in figure 6 a gas firing for a rotary drier of an output of 12-14 tons per hour is shown. Furthermore the equipment of kilns with gas burners is described in detail. In figure 7 curves of the burning of products bymeans of generator and natural gas in annular kilns is shown and in figure 8 the same curves by means of solid fuel and patural gas. By the change-over to natural gas the finish of the products improved and also the waste portion has been reduced to about half its value. Also the quality of fire-clay improved considerably, the same as its water-absorbing capacity. The drying period in the tunnel drying plants was reduced by 6% the same as the waste. There are 8 figures.

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ASSOCIATION: Semilukskiy ogneupornyy zavod (Semiluki Works for Refractories)

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Library of Congress 1. Metallurgy 2. Fuels 3. Natural gas - Applications

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AUTHORS :	Kvitchenko, I. P., Markevich, I. S.
TITLE:	Machine for Setting Glass Beams
PERIODICAL:	Ogneupory, 1959, Nr 8, pp 350-354 (USSR)
ABSTRACT :	In the Semiluki Plant a machine for setting glass beams was designed in 1955 following a suggestion by T. Ye. Trofimov, which however proved to be imperfect. At present, a second improved model has been designed, by means of which the fur- nace can be filled up to the vault, thus leading to ar in- crease in the output. Figure 1 shows the appearance of such a setting machine. Its capacity amounts up to 40 t per seven- hour shift. Figure 2 gives a general view of the machine, and figure 3 illustrates the kinematic scheme of the latter; finally, it is described in detail. Its small size and high mobility are particularly pointed out. It is capable of lifting a glass beam from any position and placing it up to a height of 3 m. The machine is operated by one person. There are 3 figures.
ASSOCIATION:	Semilukskiy ogneupornyy zavod (Semiluki Plant for Refractory Products)
Card $1/1$	

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	$\sim 10^{-10}$	KVITCHENKO, I.P.	
		Manufacture of fire-clay and fire-clay carborundum pipes. Ogneupory 26 no. 2:58-59 '61. (MIRA 14:2)	
: 		1. Semilukskiy obneupornyy zavod. (Heat regenerators) (Fire clay)	
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BROMSHTEYN, I.A., kond.tekhn.nauk, nauchnyy sotrudnik; BILIBIN, I.V., nauchnyy sotrudnik; KVITCHENKO, Ya.E., nauchnyy sotrudnik; LWVIN, D.M., nauchnyy sotrudnik; NADEZUDIN, S.M., N., uchnyy sotrudnik; NOVIKOVA, A.I., nauchnyy sotrudnik; POBIZOVKIN, A.N., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik; POBIZOVKIN, A.N., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik; POBIZOVKIN, A.N., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik; SHEYNIN, N.M., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik; SHEYNIN, N.M., NAUCHNY, NAUCH

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BRONSHTEYN, L.A., kand. tekhn. nauk; KVITCHENKO, Ya.P.; NOVIKOVA, A.I.. Prinimali uchastiye: LESOV, Yu.I.; ITKIND, I.I., MARTENS, S.L., red.; GALAKTIONOVA, Ye.N., tekhn.red. [Operational and economic evaluation of motor-vehicle trains with diverse formation] Ekspluatatsiiono-ekonomicehskaia otsenka avtopoezdov razlichnogo sostava. Moskva, Avtotransizdat. No.2. [The GA2-51P tractor with the PAZ-744 semitrailer] Tiagach GAZ-51P s polupritsepom PAZ-744. 1959. 41 p. (MIRA 13:3) 1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. 2. Sotrudniki Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta (NIIAT) (for Bronshteyn, Kvitchenko, Novikova). 3. Glavnyy inzhener Upravleniya torgovogo transporta Glavmosavtotransa (for Lesov). 4. Nachal'nik otdela ekspluatatsii Mostorgtransa (for Itkind). (Tractor trains)

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ARKHIPETS, Ye.Ye. (Kiyev); BONDAROVICH, I.M. (Khar'kov); BULANOV, V.N. (Kiyev); GALUSKIN, V.B. (Kiyev); GOGOTSI, G.A. (Mikolayev); GORBUNOVA, N.N., (Kiyev); GORLITSKIY, B.A. (Kiyev); DYADYUSHA, G.G. (Kiyev); KATSHEL'SOM, I.Ye. (Dnepropetrovak); KVITCHUK, K.A. (Kiyev); KIRILLOV, I.A., (Krym) KONOPLYASOVA, N.S. (Chernovity); MINOPSKIY, V.V. (Kiyev); PONOMARENKO, A.A. (Stanialav); PESCHANSKIY, A.I. (Kiyev); POPOV, V.N. (Kiyev); PTASHNIKOVA, I.V. (Uzhgorod); STESHENKO, N.G. (Kiyev); CHAYKIN, M.M. (Vinnitea); SHAPOSHNIKOVA, N.N. (Kiyev); SHPORTYUK, V.I. (Kiyev); YANKO, N.M. (Stalinskaya oblast'); SVECHNIKOVA, N., redaktor; SMORODSKIY, V., tekhnicheskiy redaktor

[Tourist routes through the Ukraine] Turistskie marshruty po Ukraine. Kiev, Izd-vo TaK IKSMU "Molod'," 1957. 368 p. (MIRA 10:8) (Ukraine--Description and travel)

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Z/039/60/021/02/009/037 E192/E535

AUTHOR: <u>Kvitek, Emil</u>, Engineer, Candidate of Technical Sciences TITLE: Design of Linear <u>Networks</u> on the Basis of Noise Matrices PERIODICAL: Slaboproudy obzor, 1960, Vol 21, No 2, pp 96-102

ABSTRACT: A four-terminal network (quadripole) can be represented by a generalized equivalent circuit. Such a circuit can contain noise sources which depend on the currents and voltages applied to it from an external device as well as independent noise sources. A linear quadripole can be described by

> $I_{1} = Y_{11}U_{1} + Y_{12}U_{2}$ $I_{2} = Y_{21}U_{1} + Y_{22}U_{2}$ (5)

where I₁ and U₁ are the current and voltage at the input of the quadripole, while I₂ and U₂ are the current and voltage at the output. The parameters Y Card 1/5 represent the admittance elements of the quadripole.

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Design of Linear Networks on the Basis of Noise Matrices

If the quadripole contains noise sources, these can be represented by equivalent current sources i and i2 (see Fig 1). In this case the equations of the system are as follows:

> $I_1 = Y_{11}U_1 + Y_{12}U_2 + i_1,$ $I_2 = Y_{21}U_1 + Y_{22}U_2 + i_2$ (6)

The currents i and i may not be entirely independent, in which case their correlation can be expressed by Eq (7). The matrix of the quadripole can be expressed not only in terms of the admittance parameters but by means of impedance or mixed parameters; these are indicated in Table 1. The noise sources in such cases also have to be expressed in a different manner; this is illustrated in Figs 2. The conversion of the matrix parameters, from

Card 2/5 one type of matrix to another, can be done on the basis of

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Design of Linear Networks on the Basis of Noise Matrices

Table 2. The conversion of the noise sources can be effected by employing Table 3. A very convenient representation of the internal noise sources is shown in Fig 3. This can also be represented by the equivalent circuit shown in Fig 4. It is seen that the noise sources are transferred to the input of the quadripole and are represented by the equivalent noise resistances (conductances) and correlation admittances or impedances. These equivalent noise parameters are defined by

$$R_{n} = \frac{\int \frac{|\mathbf{u}|^{2}}{4k T_{o} \Delta f}}{\frac{|\mathbf{i}_{n}|^{2}}{4k T_{o} \Delta f}} \qquad g_{n} = \frac{\int \frac{|\mathbf{i}_{n}|^{2}}{4k T_{o} \Delta f}}{\frac{|\mathbf{u}_{n}|^{2}}{4k T_{o} \Delta f}} \qquad (8)$$

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Design of Linear Networks on the Basis of Noise Matrices

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$$Y_c = \frac{iu^*}{|u|^2}, \qquad Z_c = \frac{ui^*}{|i|^2}$$
(10)

where k is the Boltzmann constant and Δ f is the frequency bandwidth. The noise resistances and admittances can be expressed in terms of the equivalent parameters of the quadripole matrix. The noise figure of the quadripole can therefore be expressed in terms of the matrix parameters, the correlation impedance or admittance and the impedance of the signal source. The ncise figure is given by Eqs (14). The minimum value of the noise figure is expressed by Eqs (18). The above results can be used to determine the noise parameters of a system of two quadripoles. These parameters for parallel, series and series-parallel connections of two quadripoles, both of which contain internal noise sources, are indicated in Table 4. The parameters for

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KVITELASHVILI, A.V.

Table for mixing plaster in the dental prosthesis office.Stomatologiia 37 no.4:71JI-Ag'58'(NIRA 11:9)

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MINIOVICH, I.A. assistent, KVITINSKAYA, A.S.; starosta gruppy kursantov Training of pharmacy organizers. Apt.delo 4 no.3:27-28 My-Je '55. 1. Iz kafedry organizatsii farmatsevticheskogo dela Kiyevskogo instituta usovershenstvovaniya vrachey. (PHARMACT, in Russia, train, of pharm.organizers)

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KVITINSKIY, N. M. Cand Ped Sci - (diss) "me Development of the Opal and Written Russian XXMANNXXXXX Fifth-Class Students . . The Kabardy Schools Literature-Reading Lessons." Mos, 1957. 16 pp 20 cm. (Academy of Pedagogical Sciences RSFSR, Scientific Research Inst Educational Methods), 100 copies, (KL, 25-57,120)

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SOV/124-58-8-9051

Using an Electrical-analog Method (cont.)

temperature field. When only the surface stresses are operative, i.e., when the problem can be adequately described by homogeneous differential equations, the stresses present are determined as functions of the two stress functions Φ and Ω which satisfy the system of differential equations

$$\nabla_1^2 \Omega = 0, \quad \nabla_1^2 \Phi = \frac{\partial^2 \Omega}{\partial z^2}$$

wherein

$$\nabla_{1}^{2} = \frac{\partial^{2}}{\partial r^{2}} - \frac{1}{r} \frac{\partial}{\partial r} + \frac{\partial}{\partial z^{2}}$$

In the general case, the expressions for the stresses contain the two functions Φ and Ω as well as special solutions for the respective inhomogeneous equations describing the influence of the centrifugal forces and the effect of the uneven heating. The differential-equation system based on the functions Φ and Ω is set up in terms of finite differences and is solved on an electric network integrator having three resistance networks which simulate the region of the elastic body under investigation. The potentials Card 2/3

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SOV/124-58-8-9051

Using an Electrical-analog Method (cont.)

encountered at the junction points of the first network correspond to the values of the function Ω , those at the junction points of the second network to the values of $\partial^2 \Omega / \partial z^2$, those at the junction points of the third network to the values of the function Φ . In addition, all the interior junction points of the second network are linked through source resistances to the corresponding junction points of the third network. The boundary conditions for the functions Φ and Ω are fulfilled by the method of successive approximations. The authors include no estimate of the error inherent in their method, and they give no example of the method's application to a specific case.

A.D. Kovalenko

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		Mademiya nauk Ukrainskoy 33R. Institut metallokermiki 1 spetaial'- nykh splavov
		⁷ Poprosy poroshkovoy metallurgi 1 prochnosti materialov, YPD. 5 (Problems in Powder Metallurgy and Strength of Materials, Nr 5) KUPev, Isd-vo AN USGN, 1958. 1720. 2,000 doples printed.
.7	+	Ed. of Publishing House: Ya. A. Samohhvalov; Fech. Ed.: V.Te. Sklywrowa; Editorial Beard: I.N. Frantsevich (Resp. Ed.), I.N. Pedorchenko, G.S. Flaarenko, G.Y.Samsonov, and V.Y. Grigor'yava.
		FURPOSE: This collection of articles is intended for a wide circle of molentists and engineers in the research and production of pos- der metallurge. It may also be useful to advanced students of metallurged in institutes.
		COVERAGE: This collection of articles describes the results of in- vestigations ands at the institut metallo inremaind spetaliny in the ppieve, ME USSR (Institutes of Powder Metallor and Special Mi- 1078, Academy of Stienes. Unrentan SSN). The nysteal and cha-
	+	trat properties of maisrials used in powder metallurgy are dis- cusedd. Materials described as new, production processes, and methods and results of mechanical testing are described. Wo per-
		TARLE OF CONTRAFTS: FEARTHOUND, G.S., and V.A. Chebolarev. Device For Testing Hat- restruct Natorials for Long Time Strength and Greep During Ten- ion and Bending The authors describe construction of the new Id-3 device and its Advantages over outstruct devices.
		Active V.A. E.S. Unanskir, and A.L. Eritka. Certain Problems in the interver of Elevicity and A.L. Eritka. Certain Problems in The multiport discuss the functions of stresses, equations of on- timuity of decreations, solutions in terms of the functions of displayments and stresses, and the utilization of electrical multipole simulation.
		Muthitskidy, B.M. Investigating the Strength of Interference-fit 160 Feraumutforther their Statio Joresion The subtor describes its asthods and results of his stpri- sental investigations of the strength of press- and shrink-fit joints of samples and of a typical construction carbon-steel previoually normalized as 80°°C.
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 TITLE: A Method of Initial Functions in the Axisymmetric Problem of the Theory of Elasticity (Metod nachal'nykh funktsiy v osesimmetrichnoy zadache teorii uprugosti) PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 11, pp 1167-1171 (USSR) ABSTRACT: The authors present the statical and physical equations of the axisymmetic problem, expressed through the four initial functions, in two variants: the first of them is used in cases when boundary conditions on a surface r = f z) (in particular for a cyliner r = const) should be satisfied; the second variant is applied for the rigorous observance of conditions on the planes z = const. Making use of the V.Z. Vlasov / Ref 1 method, the authors give a general solution of the axisymmetric problem of the theory of ela-
ABSTRACT: The authors present the statical and physical equations of the axisymmetic problem, expressed through the four initial functions, in two variants: the first of them is used in cases when boundary conditions on a surface $r = f z$) (in particular for a cyliner $r = const$) should be satisfied; the second variant is applied for the rigorous observance of conditions on the planes $z = const$. Making use of the V.Z. Vlasov / Ref 1 / method, the authors give a general
the axisymmetic problem, expressed through the four initial functions, in two variants: the first of them is used in cases when boundary conditions on a surface $r = f z$) (in particular for a cyliner $r = const$) should be satisfied; the second variant is applied for the rigorous observance of conditions on the planes $z = const$. Making use of the V.Z. Vlasov / Ref 1 / method, the authors give a general
sticity with taking into consideration some inertial and
temperature effects. The solution of some particular pro- Card 1/2 blems is reduced to the integration of ordinary differential

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	equations. If one or another order of this equation is chos- en, the approximate solution of the problem is obtained. This method is also extended to the problem of torsion of a solid of revolution. There are 2 Soviet references.
SSOCIATION:	Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute)
PRESENTED:	By Member of the AS UkrSSR, G.N. Savin
SUBMITTED:	May 8, 1958
NOTE :	Russian title and Russian names of individuals and institu- tions appearing in this article have been used in the transliteration.
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KVITKA, A. L.

Cand Tec Sci, Diss -- "Electrical simulation of the axisymmetric problem in the theory of elasticity (as applicable to investigation of the stressed state of turbomachine elements)." Kiev, 1961. 30 pp with drawings, 20 cm (Inst of Metalloceramics and Spec Alloys, Acad Sci UkrSSR), 180 copies, Not for sale (KL, No 9, 1961, p 182, No 24344), [61-54096]

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PISARENKO, Georgiy Stepanovich, prof., doktor tekhn. nauk; AGAREV, Viktor Andreyevich, kand. tekhn. nauk; KVITKA, Aleksandr L'yoyich, kand. tekhn. nauk; POPKOV, Viktor Grigor'yevich, kand. tekhn. nauk; UMANSKIY, Emmanuil Solomonovich, kand. tekhn. nauk; ZELENYUK, Ye.Ye., inzh., red.izd-va; GARODUB, G.T., tekhn. red. [Strength of materials] Soprotivlenie materialov. [By] G.S.

Pisarenko i dr. Kiev, Gostekhizdat USSR, 1963. 790 p. (MIRA 17:2)

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KVITKA, G.P.

Quartz neogeneses of the sediments in the Tatarian stage of the Atyubinsk portion of the Ural Mountain region. Uch.zap. SGU 74: 267-270 '60. (MIRA 15:7)

(Aktyubinsk Province--Quartz)



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SOV/21-59-10-6/26

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AUTHOR: Kvitka, O.L.

TITLE: Investigation of the Stressed and Strained State of Short Thick-Walled Cylinders Subjected to Axisymptotrical Loading With the Aid of Computers in the Case of Arbitrary Radial Loading.

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi RSR, 1959, Nr 10, pp 1071-1076 (USSR)

ABSTRACT: Discussing the two conventional methods / Ref. 1,2,4,5, 6, / for solving the axisymmetrical problem in order to investigate the stressed and strained state of a short thick-walled cylinder subjected to axisymmetrical loading in the case of arbitrary radial loading, and quoting their shortcomings, the author suggests a new method to be used for this purpose. It is based on a simultaneous utilization of electric models and computers for solving the system of linear algebraic equations. The article covers a detailed description of this new method, by which the axisymmetrical problem can satisfactorily be

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Investigatio Walled Cylin of Computers	SOV/21-59-10-6/26 on of the Stressed and Strained State of Short Thick- nders Subjected to Axisymmetrical Loading With the Aid in the Case of Arbitrary Radial Loading	
	solved and which also permits the compiling of tables for the calculation of short thick-walled cylinders subjected to arbitrary radial loading. The method can be extended in case of action of normal loading on butts and tangential loading on cylindrical surfaces. For solving the thermo-elastic problem, an analogical method has been proposed. There are 3 graphs, 3 tab- les, and 6 references, 4 of which are Soviet and 2 English.	
ASSOCIATION: PRESENTED: SUBMITTED: Card 2/2	Kyyivs'kyy politekhnichnyy instytut (Kiyev Polytechni- cal Institute). By H.N. Savin, Member of the AS UkrSSR June 27, 1959	

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AUTHOR :	SOV/21-59-12-2/20
AUTHOR:	Kvitka, O.L.
TITLE:	Investigation of Stressed and Deformed State of Short Thick-Walled Cylinders in the Case of Arbitrary Axial Loading, with the Help of Computers
PERIODICAL:	Dopovidi Akademiyi nauk Ukrayins'koyi RSR, 1959, Nr 12, pp 1300-1305 (USSR)
ABSTRACT :	The author presents a method of solving the axisym- metric problem, which allows compiling tables for cal- culation of short thick-walled cylinders subjected to arbitrary axial loads as shown in Figure 1, or to the effect of a tangential loading on the surface areas. Practically, sufficiently reliable calculations can be made (as shown in Figure 2) by a formula based on the principle of superposition
Card 1/3	$-6_{i} = \Sigma \widetilde{G}_{i\kappa} X_{\kappa}, \mathcal{E}_{i} = \Sigma \widetilde{E}_{i\kappa} X_{\kappa}$

CIA-RDP86-00513R000928320002-5

66693 SOV/21-59-12-2/20 Investigation of Stressed and Deformed State of Short Thick-Walled Cylinders in the Case of Arbitrary Axial Loading, with the Help of Computers wherein x_k is loading intensity at points k, δ_{ik} and are stresses and deformations caused by the effects of a single triangular load $\dot{X}_{x} = 1$ and a counterbalancing load , for example sk X(K) (Figure 2b), k is node index on the contour experiencing an axial load, and s is total number of contour nodes. This formula can be used, however, only in conjunction with a table of calculated stresses δ_{LK} and deformations Eik mations \mathcal{E}_{ik} , called by the author specific stresses (deformations). Explanations are given how to calcu-late them using the formulas (4-8) and (11), and illustrating data are presented in tables. Such tables can Card 2/3also be used for approximate calculation of rotation

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Investigation Cylinders in Computers	66693 SOV/21-59 of Stressed and Deformed State of Short Thi the Case of Arbitrary Axial Loading, with th	-12-2/20
	bodies having more complex form of axial cr when the calculation scheme is assumed to c several cylinders (Figure 4, for example). 4 tables, 3 drawings, 1 set of drawings and ces, 4 of which are Soviet and 2 English.	ontain There are
ASSOCIATION:	Kyyivs'kyy politekhnichnyy instytut (Kiyev) nical Institute)	Polytech-
PRESENTED:	By H.M. Savin, Member, AS UkrSSR	4
SUBMITTED:	June 30, 1959	
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	The High-temperature X-ray Camera RKVT-1200 (Vysoko- temperaturnaya rentgenovskaya kamera RKVT-1200)
ERIODICAL:	Kristallografiya, 1949, Vol 4, Nr 2, pp 244-247 (USSR)
ABSTRACT :	A universal high-temperature camera is difficult to design and it has been found better to divide the range into 20.90° , where the whole camera is thermostated; $20-400^{\circ}$ where protection of the film from heat and light is not difficult and the specimen often needs no protection from the atmosphere and $400 - 1200^{\circ}$ where a wire-wound furnace with a simple electrical thermostat can be used. The 20.400° type has been already des- cribed: RKVT.400 in the work of Zubenko and Umanskiy (Ref 2). The RKVT-1200 camera is suitable for examining pely- crystalline materials up to 1 200° C. The specimen is oscillated or rotated and lines from $f=6$ to 84° are
Card1/3	vacuum of better than 10 ⁻³ mm Hg can be maintained in

The High-temperature X-ray Camera RKVT-1200 SOV/70-4-2-21/36

the furnace. The body of the camera is water-cooled. The rotor and gearing of the electric motor drive are inside the vacuum but the stator is outside. The shaft for turning the specimen centering screws enters the camera by a rubber cuff. The film cassette is kinematically clamped. Knife edges cast shadows on the film at standard Θ angles. A thermocouple valve LT-2 (Pirani gauge) is built into the camera for vacuum measurement and lies on the opposite side of the working space to the pump. It takes 1.5 - 2 hours to reach working temperature and vacuum. Thermal transformations $(\alpha \rightarrow \gamma Fe)$ and the thermal expansion of CeB₆ have been studied. The latter material has an expansion coefficient of 7.9 \pm 0.4 x 10⁻⁶/°C. The CeB₆ was enclosed in a quartz capillary with walls of thickness 0.02 mm. Exposures took 6 - 10 hours. There are 4 figures and 4 Soviet references.

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KVITKA. S. S. PA 163T85 USSR/Physics - X-Ray Analysis Jun 50 X-Ray Cameras "X-Ray Methods of Adjusting Crystals," S. S. Kvitka, Yu. N. Sokurskiy, M. M. Umanskiy, Moscow State U "Zavod Lab" Vol XVI, No 6, pp 696-705 Describes X-ray methods for adjusting crystals of any syngony by X-ray photographs of oscillations or Lave patterns. Suggests more expedient construction of film holder and goniometric head for X-ray camera. 163T85

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KVITKA, S. S. PA 187786 USSR/Physics - X-ray Analysis of Mar/Apr 51 Materials "X-ray Analysis of Facetless Crystals," M. M. Umanskiy, S. S. Kvitka, Sci Res Inst of Phys, Moscow State U imeni Lomonosov "Iz Ak Nauk SSSR, Ser Fiz" Vol XV, No 2, pp 147-156 For subject analysis, stereographic projection of direct and inverse crystal lattice is used. This projection is obtained from 3 polychromatic Laue-grams. Results tabulated. Submitted at 3d All-Union Conference on Use of X-rays in Study of Materials held 19-24 Jun 50 in Leningrad. LC 187186

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KVITKA, S. S. PA 187T96 USSR/Physics - X-ray Photography Mar/Apr 51 "X-ray Camera for Rapid Photography of Polycrystals," S. S. Kvitka, M. M. Umanskiy, Phys Faculty, Moscow State U imeni Lomonosov "Iz Ak Nauk SSSR, Ser Fiz" Vol XV, No 2, pp 271-276 Describes camera for rapid photography of polycrystals. It operates on any type of tube and on std tubes BSV. Gives formulas and graphs for computing the angles of sample positions. Submitted at 3d All-Union Conference on Use of X-rays in Study of Materials held 19 - 24 Jun 50 in Lenlngrad. 10 187196

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CIA-RDP86-00513R000928320002-5 "APPROVED FOR RELEASE: 06/19/2000 232T1CS USSR/Physics - Monochromatic X-ray tals (KMSP)," S. S. Kvitka, Ye. V. Kolontsova, M. M. Nmanskiy, Sci Res Inst of Phys, Moscow State "Camera-Monochromator for Photographing Polycryspp 372-385 Report heard at the conference on powerful monochro-U imeni Lomonosov "Iz Ak Nauk SSSR, Ser Fiz" Vol 16, No 3, matic x-ray sources, held at Khar'kov 24-26 Jan 52. The purpose of the present work was to create a device, a camera-chromator, intended for x-ray comparatively soft radiation (Cu, Ni, Co, Fe), in KVITKA, S. S. which a bent monocrystal is employed in the camera for monochromatizing the radiation and use is meters and peculiarities of photographing in Describe selection of the crystal and its paramade of the methods of focusing x-ray reflections. vacuo. of polycrystallic samples in Sources May/Jun 52 2321108 2321108

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K vitka, 5.5.	
AUTHORS: Kvitka, S.S. and Umanskiy, M.M. 70-5-27/31	
TITLE: An X-ray Camera PKM-114 for the Precision Measurement of the Elementary Cell Parameters of Single Crystals (Rentgenovskaya kamera dlya pretsizionnykh izmereniy parametrov elementarnoy yacheyki na monokristallakh RKM-114)	
FERIODICAL: Kristallografiya, 1957, Vol.2, No.5, pp. 702 - 704 (USSR)	
ABSTRACT: A new X-ray diffraction camera with a film diameter of 11.459 cm has been constructed to use 35 mm X-ray film and to accommodate the standard Russian goniometer heads (types 2 and 2b) which are used for single crystal work. Provision for	
oscillating the crystal over present ranges is made. The camera is mounted with the axis of rotation horizontal and can be used on the YPC-70 X-ray tube. The general design of the X-ray optical system seems similar to that of the North American Philips 11.5 powder camera. (Assembly drawings reproduced). There are 2 figures and 2 Slavic references.	
ASSOCIATION: Moscow State University <u>im. M. V. Lomonosov (Moskovskiy</u> Gosudarstvennyy Universitet im. M. V. Lomonosova)	2
SUBLITTED: September 13, 1956.	
AVAILABLE: Library of Congress Card 1/1	

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AUTHOR:	Kvitka, S.S.	SOV/70-3-4-2		. ,
TITLE:	from Lauegrams monokristallov po La	auegrammam)	tirovkl	
		, 1958, Vol 3, Nr 4, PI		
ABSTRACT:	Kvitka and Umanskiy Lauegrams. Zaslavs cylindrical film and proposed a method no plate. Methods usi: inaccuracies and the Kvitka and Umanskiy	entation of a single cr (Ref 1) described a m kiy later suggested one d Frank-Kamenetskiy (pr eeding only one Lauegra ng one photograph are co e reasons for the recor are repeated. Advice ndrical films is given.	method using three e Lauegram on a revious paper) am on a flat characterised by mmendation of on plotting	
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AUTHORS TITIE: PERIODI ABSTRAC	The Method of Rotating a Harker Section (Metod povorota secheniy Kharkera) ICAL: Kristallografiya, 1958, Vol 3, Nr 5, pp 629-631 (USSR) CT: A maximum, in a Patterson or Harker distribution of inter-atomic vectors, which corresponds to a vector between two symmetry-related equivalent atoms, is called a proper vector. Other maxima are called improper. In suitable cases, all atoms give proper maxima in a certain section (plane or line); these are called Harker Sections and are potentially powerful for solving the structure but are, in fact, always obscured and made indecipherable by the presence of many improper peaks. In certain cases, different sections may contain the same information in equivalent distributions of proper peaks but may not have the same distribution of improper peaks. Superposition may then enable a separation to be made. If the crystal has a 4 or 6 fold screw axis, then this method of rotating the Harker section can be applied. If there is a 4 ₁ axis then the proper maxima in the plane z = 1/4 form a projection of the structure in the plane xyO	
Card]	form a projection of the structure in the plane xyo	
	T / / / / / / / / / / / / / / / / / / /	
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SOV/70-3-5-20/24 The Method of Rotating a Harker Section rotated 45 and enlarged by $2^{1/2}$. The proper peaks in z = 1/2 form a picture of the projection on xyO enlarged twice. These two diagrams can be superposed. For a 6_1 axis, there are three superposable planes, at 1/6, 1/3, 1/2. For 4_2 the sections are at z = 0, 1/2 and z = 0, 1/3. The method was applied to the for 6_2 , structure of AlB₁₂ having the space group $D_4^4 = P4_12_1$. A superposition was made of the Harker sections: one asymmetric part of the section at z = 1/4 and two asymmetric parts of the section at z = 1/2. Several coinciding pairs of maxima were found. Using additionally peak height considerations, the two peaks corresponding to octets of Al atoms were located. There are 1 figure, 1 table and 3 references, 2 of which are Soviet and 1 English. Card 2/3

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24,2200

AUTHORS: Belov, K.P., Zaytseva, M.A., Kadomtseva, A.M., <u>Kvitka,</u> S.S., and Ovchinnikova, T.L.

TITLE: The magnetic properties and structures of certain garnet systems

PERIODICAL: Kristallografiya, v.7, no.2, 1962, 242-246

TEXT: Garnet structures have been synthesized by the substitution in yttrium iron garnets of Fe and Y ions by Mn, Ge and Ti and their structures and magnetic properties have been studied. In the garnet of composition $Mn_{0.5}Y_{2.5}Fe_{4.5}Ge_{0.5}O_{12}$

an anomalous temperature dependence of the spontaneous magnetisation has been observed at low temperatures (of Neel's type M). It is established that the garnet of composition $MnY_2Fe_4GeO_{12}$ has a Curie point below 0 °C and that the curve of

the temperature dependence of the spontaneous magnetisation tends asymptotically to zero. The curves are explained qualitatively. The cell size of the first-mentioned compound is 12.367 Å, and Card 1/2

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SAN NA CARGO STANKS ASSOCIATE BURGER AND THE REAL PROPERTY IN A STATE OF THE PARTY INTER KNITKA, V. 84-58-2-23/46 Razumov, I., Candidate of Technical Sciences, and Kvitka, AUTHOR: V., Gubkina, G., Engineers Noise Characteristics of the Tu-104 Airliner (Kharakte-TITLE: ristiki shuma, sozdavayemogo samoletom Tu-104) Grazhdanskaya aviatsiya, 1958, Nr 2, pp 19-21 (USSR) PERIODICAL: The article is a report on the results of noise level ABSTRACT: tests carried out in the State Scientific Research Institute with the Tu-104 jet and the I1-14 conventional airliners. The results of tests are compared with each other and with those of the French Caravelle jet aircraft. The conclusion is that the Tu-104, flying at 375 m. altitude and rated engine speed creates a noise level at a listening station placed 4,500 m. from the take-off point equal to that of the Il-14 plane passing at an altitude of 200 m. The noise level of the Tu-104 Card 1/2

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Noise Characteristics of the Tu-104 Airliner

is of the same order as that of the Caravelle and other foreign jet aircraft. Three diagrams and two tables accompany the text.

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Card 2/2 1. Airplane noise-Test results 2. TU-104(Airplane)-USSR 3. I1-14(Airplane)-USSR

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