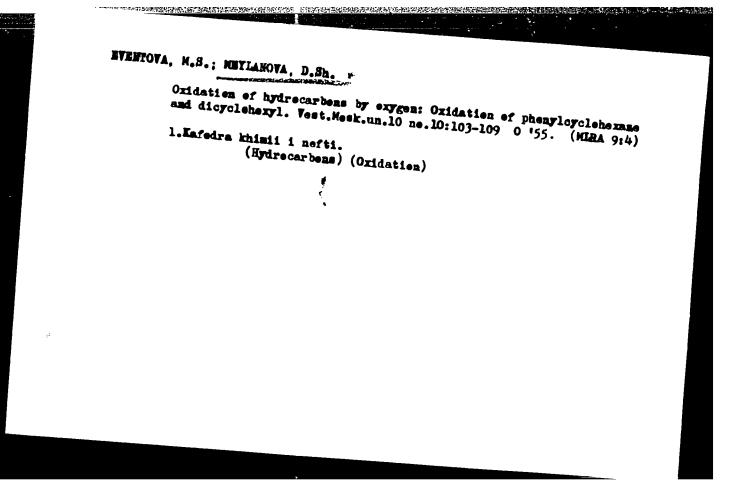
KOEZINKINA, Z.; VATLETSOV, V.; MEYLAKHS, M., master sporta; BOROVIKHIH, D.

Facts, events, people. Kryl. rod. 16 no.9:18-19 S '65.

(MIRA 18.12)

1. Obshchestvennyy instruktor Kirovskogo oblastnogo komiteta
Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii,
aviatsii i flou SSSR (for Vatletsov). 2. Zamesiite:
nachal'nika TSentral'nogo doma aviatsii i kosmona'iki :for
Borovikhin).



AUTHORS: Karaulova, Ye. N., Meylanova, D. Sh., 79-11-27/56

TITLE: On the Thermal Isomerization of Allylarylsulfides (O termicheskoy izomerizatsii allilarilsul'fidov).

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11, pp. 3074-3040

ABSTRACT: According to Claisen the characteristic property of the allylaryl-esters is the so-called regrouping, the ability of isomerizing into o-allylphenols on heating. It was analogues of these esters, to allylphenols in to the sulfur-

analogues of these esters, to allylphenylsulfide and oand p-allyltolylsulfide. In contrast to the results obtained by Hurds and Greenwards it was found to

allylthiophenol is to be obtained, but only propenylphenyl-sulfide which, if heated, yields concentration products. The structure of the product obtained in the thermal

isomerization of allylphenylsulfide was determined by hydrogenation over nickel. Thus this isomerization with subsequent formation of allylthiophenols (Claisenian

Card 1/2

THE SHARK PROPERTY OF THE PROP

On the Thermal Isomerization of Allylarylsuifides

regrouping), like in the unalogous oxygen compounds, has no effect. In hermal isomerization the allylarylsulfides are converted to the corresponding propenylarylsulfides. At first they obtained allyl-o-tolylsulfide, allyl-o-tolylsulfone, propenyl-o- and p-tolylsulfides, propenyl-otolylsulfone, cis- and trans-propenylphenylsulfones. Allylphenylsulfide and propenylphenylsulfide are split up by the solution of mercuric chloride in alcohol, on which occasion mercuric chloride of thiophenol forms. There are 1 figure, and 12 references, 2 of which are

ASSOCIATION: Petroleum Institute AS USSR (Institut nefti Akademii nauk SUBMI FTED:

December 10, 1956

AVAILABLE: Library of Congress

Card 2/2 1. Allylarysulfides - Isomerism

AUTHOR .

KARAULOVA, Ye.N., MEYLANOVA, D.Sh. GAL'PERN, G.D.

20-6-26/59

TITLE:

On KLEISEN's Rearrangenment in the Allylarylsulphide Series.

PERIODICAL:

(O peregruppirovke Klayzena v ryadu allilarilsul'fidov, Russian) Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 6, pp 1280 - 1282

ABSTRACT:

This rearrangement is an isomerization which, according to the opinion of some scientists, is characteristic not only of the allylarylethers but also of their analogys. In contrast to Hurd and Greengurd the authors found that in the case of boiling of allylphenylsulphide without solvent practically no allylthiophenol is formed, but an isomerization of the former in propenylphenylsulphide occurs. It is identical with the product insulated by Tarbell and Mc Call which they obtained by the action of sodium alcoholate in an alcoholic solution on allylphenylsulphide. When standing or warming propenylphenylsulphide forms condensation products. The thermal isomerization of the allylarylsulphides develops according to the scheme:

Ars - CH_2CH - CH_2 \xrightarrow{to} Arsch - $CHCH_3$; (Ar - C_6H_5 , $o-C_6H_4CH_3$) and $n-C_{6}^{H_{4}CH_{3}}$

Furhtermore, the single reactions with yields and experimental

Card 1/2

On KLEISEN's Rearrangement in the Allylarylaulphide Series. 20-6-26/59 conditions are described in detail. A colored reaction with sulphuric acid is characteristic of the here investigated propenylarylsulphides: A red coloring results, which quickly changes into brown. In contrast to this, allylarylsulphides, after addition of concentrated H₂SO₄, turn only faint yellow. The obtained results allow the conclusion that KLEISEN's rearrangement does not take place in the case of the allylarylthioethers, in contrast to corresponding oxygen-compounds. Allylarylthioethers isomerize in the case of heating in corresponding propenylarylsulphides.

ASSOCIATION: Petroleum Institute of the Academy of Science of the U.S.S.R. PRESENTED BY: A.V. Topchiyev, Member of the Academy

AVAILABLE: Library of Congress

Card 2/2

5(3) AUTHORS: Karnulova, Ye. N., Leylanova, D. Sh., Gal'pern, G. D. sov/20-123-1-26/56 TITLE: Synthesis of 2-Metayl- and 3-Metayl-1-Thia-Indans and 2-Ethylthiaindene (Sintez 2-metil- i 3-metil-1-tiaindanov PERIODICAL: Doklady Akademii nauk SSSR, 19,8, Vol 123, Nr 1, ABSTRACT: In connection with the investigation of the sulfurcontaining compounds of the medium naphtha fractions so-called semiaromatic sulfur compounds are of interest. Among them, particular attention deserve the alkyl derivatives of the 1-thia-indan (2,3-diny/ro-thianaphthene) with substituents in a 5-membered ring. The authors found, in se. rch for a synthesis method for such compounds, that the hitherto unknown 2- and 3methyl-1-thia-indans (III) can be easily produced by a gradual reduction of the sulfones (I) of the Card 1/3 corresponding 2- and 3-methyl-thia-indenes. A simple

Synthesis of 2-Methyl- and 3-Methyl-1-Thia-Indens and 307/20-123-1-26,56 2-Ethylthiaindene

> method of synthesis of the 2-alkyl-thia-indenes is the metallization of the thia-indene (thianaphthene) by n-butyl lithium with subsequent alkylation by dialkyl sulfates. By the influence exerted by Himethyl- and diethyl sulfate upon 2-thia-indenyl lithium the 2-methyl-thia-indene and the 2-et.yl-thia-indene heretofore not described were obtained. The first can be oxidized by hydrogen superoxide to form 2methyl-thia-indene sulfone (Ia). The structure of the 2-methyl-1-thia-indan (IIIa) was confirmed by a synthesis according to the given somere. Experimental data (being not denoted as nuch), are following. There are 6 references, 1 of which is Soviet.

ASSOCIATION: Institut nefti Akademii nauk SSSR (Petroleum I otitute of the Academy of Scie cec, USSR)

PRESENTED: June 14, 1958, by A.V. Topchiyev, Academician Card 2/3

MEYLANOVA, D. Sh., Candidate Chem Sci (diss) -- "The synthesis of 2- and 3-alkyl-1-thiaindanes and the transformations of arylalkenylsulfides and sulfones". Moscow, 1959. 12 pp (Acad Sci USSR, Inst of Petroleum-Chem Synthesis), 180 copies (KL, No 24, 1959, 128)

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CIA-RDP86-00513R001033730001-3 "APPROVED FOR RELEASE: 07/19/2001

AUTHORS: Karaulova, Ye. N., Meylanova, D. Sh., SOV/79-29-2-63/71 Gal'pern, G. D.

Synthesis of 3-Methyl-1-Thiaindane and Regrouping of Allyl-TITLE: aryl Sulfones (Sintez 3-metil-1-tiaindana i peregruppirovka

allilarilsul'fonov)

2. 2.1. 类型的用度长线内容器的数据器表示的数型的数据数据器器

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 662-666 (USSR)

ABSTRACT: Of topical interest is the synthesis of the so-called "semiaromatic" bicyclic compounds, as components of various mineral oils, especially those of the homologues of 1-thiaindane, with

substituents in the hydrogenized ring. H. I. Backer and N. Dost (Ref 1) found that on heating allylphenyl sulfone with H2SO4.

which contains boron fluoride, an isomerization takes place under formation of a product, to which the structure of 3-methyl-2,3-dihydrothionaphthene sulfone was ascribed The reduction of the sulfone group therein should lead to

3-methyl-1-thiaindane (3-methyl-2,3-dihydronaphthene). However, on reducing the "cycloisomerization product" of allylphenyl sulfone, which was obtained according to reference 1,

the authors found no 3-methyl-1-thiaindane, but propylphenyl Card 1/3

Synthesis of 3-Methyl-1-Thiaindane and Regrouping SOV/79-29-2-63/71 of Allylaryl Sulfones

sulfone, almost quantitatively. Thus the compound assumed by the above authors as being 3-methylthiaindane sulfone has no bicyclic structure; the isomerization product of allylphenyl sulfone was found to be a propenylphenyl aulfone Likewise, propenyl-n-tolyl sulfone forms on the action of H_2SO_4 in the presence of boron fluoride upon allyl-n-tolyl sulfone; on the reduction with \mathtt{LiAlH}_4 the latter is transformed into propyl--n-tolyl sulfone. Thus, on the action of ${\rm H_2SO}_4$ upon allylaryl sulfones no cyclization takes place under formation of 3-methyl-1-thiaindane sulfone. In this connection, allylaryl sulfones isomerize immediately into propenyl compounds in the way shown by scheme in reference 2. Further experiments showed that the synthesis of 1-thiaindanes by cyclization of allylaryl sulfides and sulfones is not possible in good yields. The synthesis of 1-thiaindanes was also attempted over thiaindenes (benzothiophenes) and their derivatives. 3-methyl-1-thiaindane was obtained by the reduction of 3-methylthiaindene sulfone (Scheme 2) The structure of 3-methyl-1-thiaindane was

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Synthesis of 3-Methyl-1-Thiaindane and Regrouping SnV 79-29-2-53/71 of Allylaryl Sulfones

> determined by hydrodesulphurization over nickel (Scheme 3) The yield in 3-methyl-1-thiaindane amounts to 41 %, calculated for thiophenol. There are 10 references, 2 of which

are Soviet,

ASSOCIATION:

Institut nefti Akademii nauk SSSE (Petroleum Institute of

the Academy of Sciences, USSR)

SUBMITTED:

December 4, 1957

Card 3/3

KARAULOVA, Ye.N.; MEYLANOVA, D.Sh.; GALIPERN, G.D.

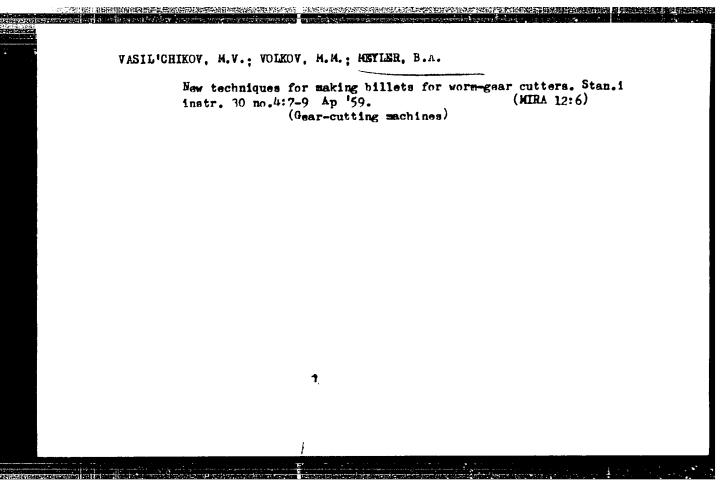
Synthesis of methyl-1-thiaindanes. Khim.sera-i azotorg.soed.sod.v meft.
i mefteprod. 3:25-33 '60. (MIRA 14:6)

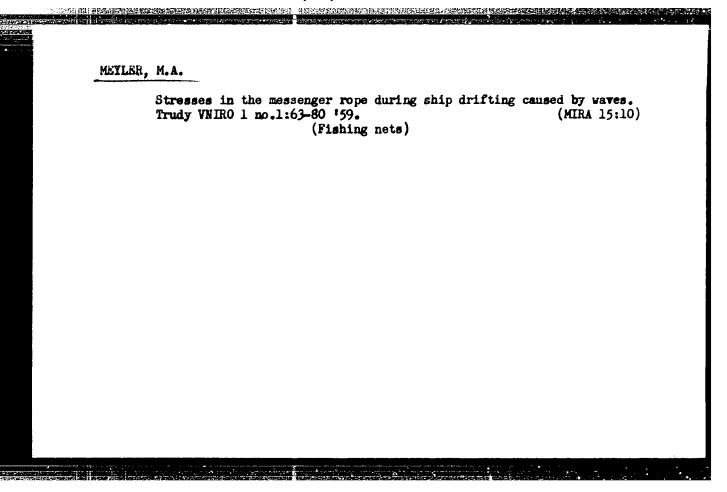
1. Institut meftekhimicheskogo sinteza AN SSSR.
(Benzothiophene)

Karaulova, Ye.N.; MEYLANOVA, D.Sh.; GAL'PERN. G.D.

Synthesis of 2- and 3-alkyl-1-thiaindans. Zhur.ob.khim. 30 no.10: 3292-3297 0 '61. (MIRA 14:4)

1. Institut neftekhimicheskogo sinteza AN SSSR. (Thiaindan)





EL'KIH, I., inzh.; MEYLIKHOV, M., inzh.; CHERNYAK, A., inzh.; YUDITSKIY, I., inzh.

Increasing the capacity of hermetically sealed refrigeration compressors. Ehol.tekh. 37 no.3:18-21 My-Je '60. (MIRA 13:7)

1. Khar'kovskoye opytno-konstruktorskoye byuro Ukrtorogoborudovaniya. (Compressors)

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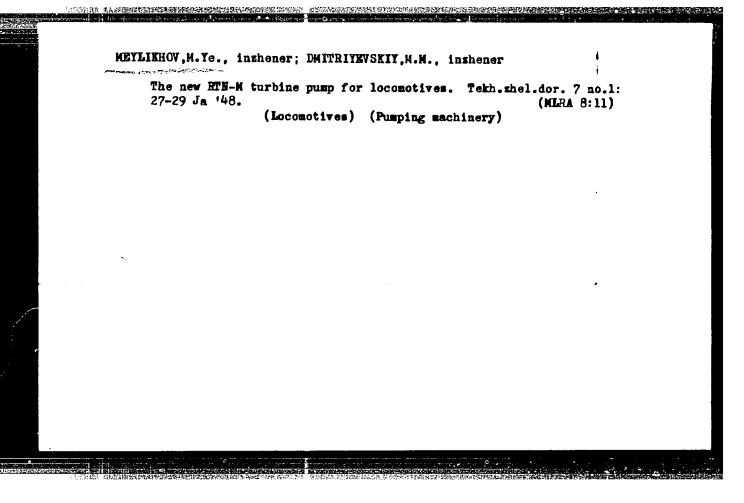
MEYLIKHOV, M.; EL'KIH, I. Automatic soft drink dispenser. Obshchestv. pit. no. 7:38-1. Jl '58. (MIRA 11:7) 1. Mechal'nik otdels kholodil'nyth mashin Kher'kovskogo opytno-konstruktorskogo byuro(for Meylikhov). 2. Olevnyy konstruktor Khar'kovskogo opytno-konstruktorskogo burro(for El'kin) (Garbonated beverages--Equipment and supplies)

ADOL'F, Viktor Aleksandrovich; LEBEDENSKIY, G.V.; MEYLIKHOV, M.M.;
MERSIE, M.A.; SEPITYT, V.T.; MEDVEDEV, I.N., inthener, redaktor;
KOBYLLAKOV, L.M., redaktor; PERSYNKIMA, Z.D., tekhnicheskiy
redaktor;
RALLOD, A.I., tekhnicheskiy redaktor

[Disassembling and assembling Ent2-7 tractore] Rasborka i sborka
traktore Ent2-7. Pod red. I.E.Medvedeva. Moskva, Gos. izd-vo
selkhos. lit-ry, 1956. 194 p.

(MLRA 9:7)

(Tractore)



也是这一只是这些的的现在分词,你就会可以是这些的人,我们也是这些人的,我们就是这个人的,他们也是这些人。

AUTHORS: Bartosh, Ye.T., and Meylikhov, M.Ye. (Moscow) 47-4-2/20

TITLE: Construction of Locomotives During the Sixth 5-Year Flan

(Lokomotivostroyeniye v shestoy pyatiletke)

PERIODICAL: Fizika v shkole, 1957, No 4, pp 9-28 (USSR)

ABSTRACT: The authors point out that at the beginning of the Sixth 5-Year Plan the freight turnover on the Soviet railroads by means of electric and Diesel locomotives amounted to only 14%. The plan provides for an increase of 40 - 45%. For this purpose the railroads will be supplied with at least 2,000 electric and 2,250 double-section Diesel locomotives during 1956 - 1960.

The construction of new powerful gas-turbine locomotives is also planned. They indicate that fuel is the most important component of the net cost of freight transportation. This factor, the kind of fuel and its availability will have to be taken into consideration when comparing the various types of locomotives. After describing in detail the construction, the working process and the economic factors of the locomotives used at present, the authors arrive at the conclusion that the

steam engine's efficiency is only 4 - 5%, while that of the Diesel is 4 - 6 times higher. The authors compare the kind of

Card 1/7 fuel used by these engines and examine the possibility of

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APPROVED FOR RELEASE: 07/19/2001

Construction of Locomotives During the Sixth 5-Year Plan

47-4-2/20

utilizing solid fuel for Diesel locomotives by gasifying it in the locomotives or at gas compressor stations with subsequent delivery to the engines in cylinders. But the efficiency of this type of locomotive is about 22% lower than the normal Diesel engines, and they require considerable investment of capital. Referring to the gas-driven turbine locomotives, of which there are only 30 in the world, the article states that their main advantage is the high specific capacity and the possibility to construct powerful engines of small size. They can work on liquid, solid and gaseous fuel. In 1955, Professor N.I. Belokon' suggested a gas turbine engine with a so-called double-stage fuel burning. His scheme provided a series connection of the air boiler working on solid fuel with the combustion chamber for the liquid fuel. The air, going from the compressor to the gas turbine, is preheated to a temperature of 575 - 600° C in the air tank and is later heated by liquid fuel in the combustion chamber to 720 - 750° C. It enables the economic use of solid fuel and ensures favorable conditions for the turbine blades. The efficiency of turbine locomotives run on liquid fuel is at present 16 - 17%, on solid fuel 14.5 -15.5% and with the so-called non-shaft piston gas generators 28 - 30%. Dealing with electric locomotives the authors state

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Construction of Locomotives During the Sixth 5-Year Plan

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that the efficiency is considerably higher if the energy is supplied by hydrostations as compared with energy from heat electric stations. The short analysis shows that the replacement of steam locomotives by electric and gas-driven turbine engines is a natural step in technical progress. The high exploitation qualities of electric locomotives and their remarkable efficiency and capacity places the electrification of railroads in the foreground. It is intended to electrify 8,100 km of railroad lines during the Sixth 5-Year Plan. The following lines will be electrified: Moscow - Kuybyshev -Chelyabinsk, Omsk - Novosibirsk - Irkutsk, Moscow - Khar'kov -Slavyansk, Chelyabinsk - Sverdlovsk, Inskaya - Belovo, Belorechenskaya - Tuapse - Sukhumi, Pyatikhatka - Nizhnedneprovsk -Chaplino - Yasinovataya, and others. Also the suburban lines of the biggest cities - Moscow, Leningrad, Khar'kov, Kiyev, Stalingrad, Baku will be electric. At the same time powerful Diesel engines will be installed on the lines: Penza - Povorino - Valuyki, Dzhusaly - Arys', Karaganda - Mointy, Akmolinsk -Barnaul, Kalinin - Leningrad, and others. The following electric locomotives will be built: "H8", BJ-22m" and "BJ-23" working on direct current, and "HO" running on alternating current. The first three engines work on a voltage of the net

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Construction of Locomotives During the Sixth 5-Year Plan

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of 3,300 volt. Table 1 shows the characteristics of these 3 locomotives. The authors deal with the question of changing over to alternating current, considering the direct current to be uneconomical. They describe the difficulty of using onephase alternating current. On the section Ozherel'ye - Pavelets of the Moscow - Kursk - Donbass RR, alternating current with a tension of 22 kw is already being used. Electric locomotives "HO' (NO), constructed at the Novocherkassk Plant are running there. Figure No 9 shows a basic electric circuit diagram of locomotive "HO". The engines built are freight locomotives. Special passenger locomotives are not at present being constructed, but Soviet designers are working on special passenger locomotives for a speed of over 150 km per hour. For the suburban passenger traffic, electric engines Ci have been built which do not satisfy the demand because of slow speed (85 km/h) and poor acceleration (0.45 m/sec2). The Riga RR Car Construction Plant (Rizhskiy vagonostroitel'nyy zavod) produced recently a 10-car electric train 3P-1 which proved to be satisfactory. The comparative characteristics of Ct and 3P-1 ar, indicated on table 2. A considerable number of freight Diesel locomotives T3-1 and T3-2 operate on the USSR railroads. Their efficiency and speed no longer satisfies the

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Construction of Locomotives During the Sixth 5-Year Plan

47-4-2/20

demand. They will be supplemented by new powerful freight Diesel locomotives T3-3 (Figure 11). They have a 2-cycle, 10-cylinder engine type 2Å-100, without compressor and with opposing pistons. The electric circuit diagram of this engine is shown in Figure 12. Its capacity is 2,000 hp with 850 rpm. The article gives further particulars about the T3-3 Diesel locomotive. The speed is 100 km/h. On the basis of the T3-3locomotive, the Khar'kov Diesel Locomotive Plant has constructed for experimental purposes, new powerful three-section Diesel freight locomotives of 6,000 hp and two-section passenger locomotives T3-7 of 4,000 hp with a construction speed of 140 km/h. The construction of T3-7 and T3-3 is much alike and makes mass production simple. During recent tests a metal-car passenger train took 5 hours 55 minutes from Moscow to Leningrad. A number of gas generator locomotives $T\partial -4$, developed by the All-Union Scientific Research Institute of Railroad Transport (Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta), are already in use. They consist of two sections of Diesel engine T3-2 with a gas generator tender installed between the sections. The Murom Works (Muromskiy zavod) have already constructed new 400-hp Diesel shuntingengines $T\Gamma^M$ ready for testing. In addition to the $T\Gamma^M$ the

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Construction of Locomotives During the Sixth 5-Year Plan

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Voroshilovgrad Plant has built experimental 750-hp shuntingengines with hydro-mechanical gear. The Bryansk Plant works on the construction of a Diesel shunting-engine of 1,000 -1,200 hp. The Kaluga Works of the MPS (Kaluzhskiy zavod MPS) have built a narrow-gage Diesel locomotive TY-2 with a 4-cycle non-compressor, 12 cyclinder, V-like 300-hp Diesel engine. The Kolomna Plant (Kolomenskiy zavod) has started constructing various assemblies of the two-section gas turbine locomotives for heavy liquid fuel (mazut) of 3,740 hp. The Voroshilovgrad Transport Engine Plant (Voroshilovgradskiy zavod transportnogo mashinostroyeniya) is working on the construction of a gas turbine locomotive with a shaftless piston gas generator of 3,000 hp capacity in each section. Figure 16 shows the disposition of this locomotive's equipment. During the next few years the construction of a gas turbine locomotive is planned with two-stage fuel burning, as per a project developed by the TaNII MPS. Figure 17 illustrates the disposition of the locomotive's equipment. The fuel: 20 - 30% liquid and 70 - 80% solid. The principal characteristics of the discussed gasturbine locomotives are contained in Table 3. The problem of gas-turbine locomotives is of recent origin but wide prospects for their development can be seen already.

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Construction of Logaritives puring the Sixth 5-tear Plan 47-4-2/20

There re 11 figures, 1 diagram, ; tables and 6 photos.

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Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodoromacan ingana

Voprosy gazoturbovozostroyeniya i transportnoy teploenergetiki; sterrik state. (Problems in Gas-Turbine Locomotive Building and Heat-Power Engineering transportation; Collection of Articles) Moscow, Transzheldoriziat, 1 k . (Its: Trudy, vyp. 187) 1,000 copies printed.

Sponsoring Agency: Vsesoyuznyy nauchno-issledovatel akiy institut thelegrotism in transporta.

Eds. (Title page): Ye. T. Bartosh, Candidate of Technical Sciences, and A.7. Kas'yanov, Candidate of Technical Sciences; Ed. (Inside book): I.K. Potnapagua. Tech. Ed.: P.A. Khitrov.

FURPOSE: This book is intended for engineering and technical personnel.

COVERAGE: The book consists of 13 articles on the results of theorem all fivest war tion of gas turbine units with two-stage fuel combustion, and a theorem all and laboratory investigations of air tank units and their components. Special feature

Card 1/4

Problems in Gas-Turbine Locomotive Building (Cont.)

SOV

of variable regimes of locomotive gas turbine engines and problem economy in locomotive and stationary units are discussed. Note that mentioned. References accompany some of the articles.

TABLE OF CONTENTS:

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Ivanov, I.A., Director of the Institute, and L.A. Isayer, Deput. Head of the Department of Power Engineering. Forewort

Meylikhov, M. Ye., Engineer. Analys s of Locamative Gas T. Afrac Units With Two-Stage Fuel Combustion

Shevchenko, L.A., Engineer. Characteristics of a Locometica Single Shaft Gas Turbine Unit Under Partial Loads

Maylikhov, M. Ye., Engineer. Investigation of Basic Diagrams of an Turbine Locomotive Air Regenerator Tanks

Synzyumova, Ye. M., Candidate of Technical Sciences. Reposition of Pwo-Stage Combustion Turbine Unit of a Gas Turbine Locomotave

Card 2/4

the his department of the first and the control of the control of

Problems in Gas-Turbine Locomotive Building (Cont.) SOV /L ... Bartosh, Ye. T., Candidate of Technical Sciences. Flow Distribution in Clusters of Pipes Yevtushenko, A.M., Candidate of Technical Sciences. Cutting Print of Self-Sealing, Equal-Section Gasket Rings Kas yanov, A.V., Candidate of Technical Sciences, Yu. Ye. Radir., Candidate of Technical Sciences, and Ye. P. Khil'kovskaya, Engi-Aerodynamic Investigation of Gas Turbine Locomotive Air Tank Element Kulagin, L.V., Engineer. Determining Tolerances for the Dimension of Centrifugal Fuel Swirlers Chernomordik, B.M., Engineer, Candidate of Technical Sciences, or K.F. Dobrikov, Engineer. Influence of Generator Gas Composition the Combustion Process in a Piston Chamber Pavlov, S.F., Candidate of Technical Sciences. Experimental Inc. tion of Heat Exchange in Boiling on the Heating Surface of Clust. f Piper 1. Card 3/4

Problems in Gas-Turbine Locomotive Building (Cont.)

Postarnak, S.F., Engineer. Investigation and Selection of Type: 3:

Steam Turbines for Small Electric Power Stations

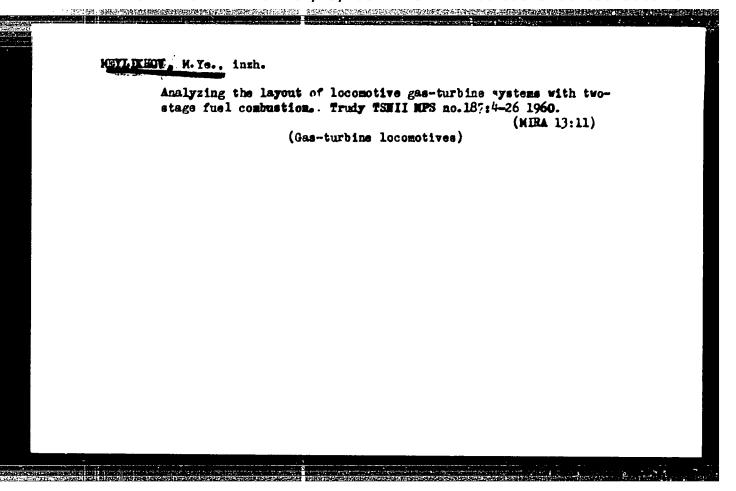
Samokhvalova, A.I., Engineer. Aerodynamics of the Combustion Chasse of a Jet-Layered Fire Box With Pneumatic Fuel Stoking

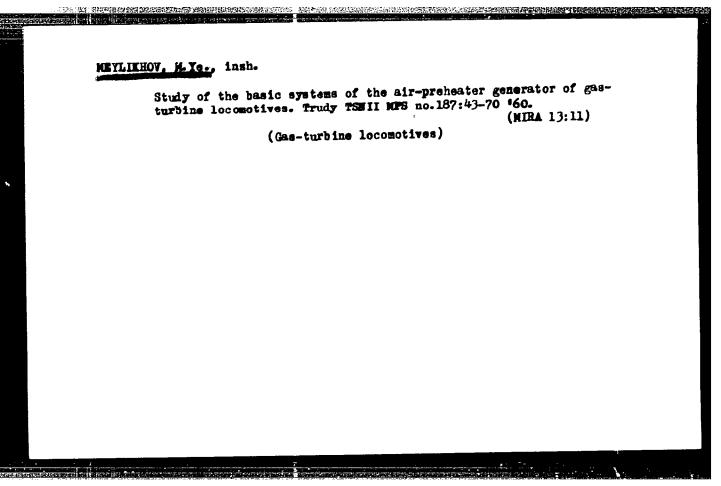
Vidayeva, Ye. M., Engineer. Test Stand Results in L. 181

In the Air Tank of a Gas Turbine Locomotive

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Card 4/4





Choice turbine	of surface type of t systems. Trudy TSM1	162.	
	(Gas turbines)	(Heat exchange)	(MIRA 15:12)

MEYLIKHOV, M.Ye., inzh.; MITROFANOV, I.M., kand. tekhn. nauk

Results of the field tests of G1-01 gas-turbine locomotives.

Vest. TSNII MPS 22 no.4:3-8 '63. (MIRA 16:8)

(Gas-turbine locomotives—Testing)

•	IKHOV, M.fe., inzb.
	Mot . By fighe field tents of 01-01 gen-turbine locomotives. The property of the field tents of 01-01 gen-turbine locomotives. (MIRA 17:10)
	Riffect of the universe changement of a locomotive gas-turbine engine on its opens for it to be. The continue of the opens for its opens.

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AUTHOR: Meylikhov, M. Ye. (Engineer); Mitrofonov, I. M. (Cendidate of technical aciences); Pavlov, S. F. (Candidate of technical sciences); Sen-Zhelen, Ye. A. (Engineer) TITLB: Results of field tests of the first Soviet GI-OI gas turbine locomot

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta. Trudy, no. 282, 1964. Rezul'taty issledovaniy gazoturbovoza G1-01 i lokomotivnykh gazoturbinnykh dvigateley (Results of research on the gas turbine locomotive G1-01 and locomotive gas turbine engines), 14-34

TOFIC TAGS: gas turbine, gas turbine locomotive, distillate fuel, gas turbine compressor, locomotive field test

ABSTRACT: The gas turbine locomotive discussed in this paper was manufactured by the Kolomenskiy teplovozostroitel'nyy zavod imeni V. V. Kuybysheva (Kolomna Diesel Plant) at the end of 1959. Only one section of a two-section freight gas-turbine locomotive was made. The wheel arrangement was 30-30; working weight 139.4 tons; turbine shaft h.p. 3,500; traction engine h.p. 2,700; calculated gas turbine speed 3,500 rpm; calculated gas temperature in front of the engine 7270; ratio of limiting compression pressures 6; number of compressor stages 12; number of turbine states 4; h.p. of 1D6N auxiliary engine 220; fuel reserve in kg: distillate fuel

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9,500 and diesel fuel 1,500; calculated speed 100 km/hr. Several test runs were made with trains weighing up to 2,000 tons. On the basis of adjustment tests a new engine was designed with higher casing rigidity which resulted in lower engine vibration. Engine No. 3 was replaced by this newly designed engine No. 4. Further tests were made between the stations of Kochetovka and Rybnoye with grades up to 8%, and then between Kochetovka and Pavelets. Operation showed that the gas turbine locomotive could undergo routine inspection and repairs in regular railroad repair shops. Repairs would be needed at the plant only when there are no special devices or spare parts and assemblies. The time lost for repairs was 60% of the total time of operation. The total number of runs was 90 with freight trains weighing up to 2,870 tons. The average speed was 50-53 km/hr. without any speed limitations along the road. The distillate fuel used in the engine and the following properties: density 0.917-0.924: viscosity at 50C 1.58-1.60; solidification point -7C to + 3C; flash point 65-82C; content of sulfate tars 17-18%; content of admixtures 6.03-0.12%; ash content 0.0079-0.0086%; vanadium content 0.0009-.0027%; sulfur content 2.5-3%; calorific value 9,745-9,734 Cal/kg. Water was found in the fuel tank and was regularly drained, as the presence of water leads to the formation of harmful emulsions. The diesel fuel consumption was 2-10% (5.4% average) of the entire fuel consumption. W Lubricant consumption was 0. Wehp-hr, or 10-15% of that in diesel locomotives. In the winter (-20 to

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+5C) the maximum horsepower of the gas turbine was 2,700-2,800 h.p. and 2,200-2,300 kW, while in the summer (up to ± 30 C) the maximum h.p. was 2,500-2,600 and 1,900-2,000 kW. This is explained by limitation of engine power at temperatures above +15C. The performance curve (Fig. 1 of the Enclosure) depends on the DC drive installed on the G1-O1 gas turbine locomotive. The locomotive was set at constant speed by manual adjustment of main generator excitation. As the gas turbine was tested the results became better at higher engine power. The power efficiency between Kochetovka and Rybnoye was 0.68-0.70. Increased experience of the lecomotive engineer and team leads to improved operation, lower fuel consumption, etc. Thus, during the first few trips, the gas turbine was never shut off as the engineer was not sure whether he could start it again if required. Calculations and operational tests show that the weight of the freight train may be increased to 3,000-3,100 tons. Fuel consumption may be lowered by decreasing idling speed and by a sharp drop in gas turbine speed while the auxiliary diesel engine is running at idling speed. The field test data coincide with laboratory tests of the gas turbine in relation to speed and power, the same being true in relation to . the compressor. Constant power of the generators may be obtained by adjusting the main generator excitation when the temperature changes from -20 to +25C. Distillate fuel has been approved as a standard petroleum fuel for gas turbine locomotive engines (GOST 10443-63). Several defects were eliminated during the field 3/6

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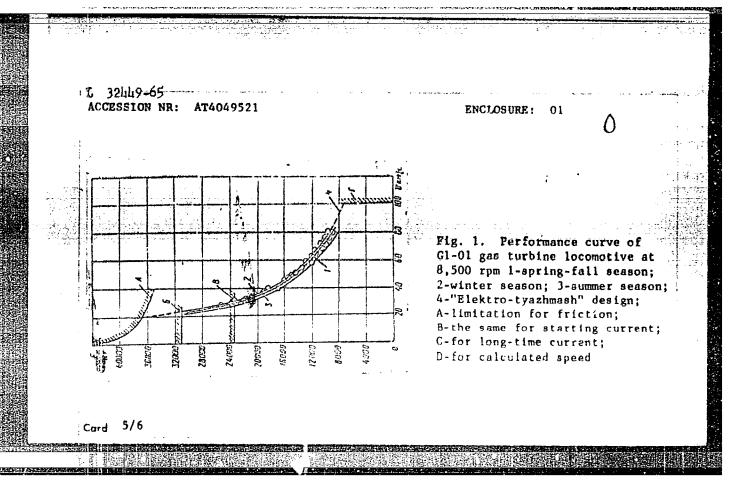
tests, such as suction of exhaust gases into the compressor, the input air temperature being 5-10C higher than the outer air temperature, as well as compressor surge. Opening of the compressor after 46,000 km showed that the flow parts of the compressor were in good condition. Even before the governor was installed the engine could be started with ease. The main deficiency in the combustion chamber was smokey exhaust, with both distillate and diesel fuels. Fig. 2 of the Enclosure shows the revised design of the turbine vane fastening. Slide bearings resulted in lower vibration and they are to be installed on all new engines. The main fuel pump and circulation pump failed several times due to poor packings. The horsepower of the auxiliary diesel engine should be increased from the initial 150 h.p. to 300-400 h.p., instead of the reinstalled 220 auxiliary diesel engine. Finally, it is noted that the gas turbine locomotive engine ran satisfactorily. However, tests with only one locomotive are insufficient and several should be built with automatic governors and controls on the gas turbine for testing the entire system. Orig. art. has: 14 figures and 2 tables.

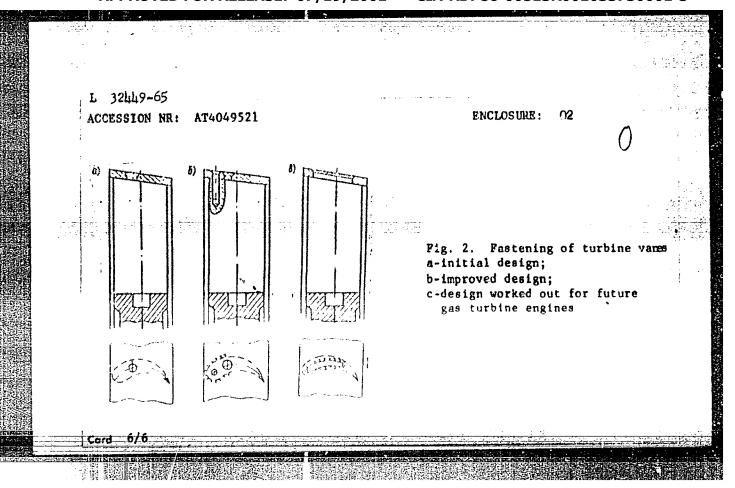
ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezhnodorozhnogo transporta, Moscow (All-union railroad transport scientific research institute) ENCL: 02 NO REF SOV: 002

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SUB CODE: PR

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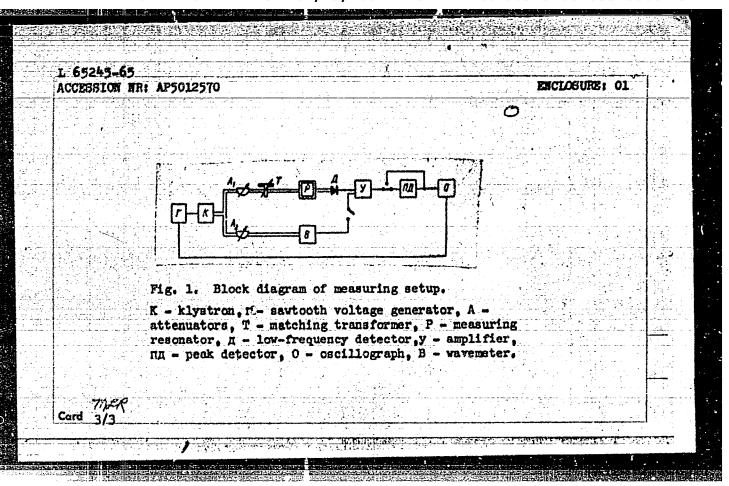


KIST'YANTS, L.K.; NAYMAN, A.M.; SERDELEVICH, G.Ye.; LEBEDEV, B.P., doktor tekhn. nauk, prof., retsenzent; VINOGRADOV, N.S., retsenzent; MEYLIKHOV, M.Ye., inzh., red.

[Combustion chambers of gas-turbine locomotive engines]
Kamery sgoranita lokomotivnykh gazoturbinnykh dvigatelei.
Moskva, Mashinostroenie, 1965. 147 p. (MIRA 18:8)

JD/GG L 65245-65 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) UR/0181/65/007/005/1529/15 ACCESSION NR: AP5012570 AUTHOR: Maylikhov, Ye. Z. 44, 45 TITLE: Determination of the parameters of the adhesion and recombination levels in Cd8 SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1529-1534 TOPIC TAGS: adhesion, cadmium sulfide, recombination coefficient, energy band structure, photoconductivity ABSTRACT: The photoconductivity of single-crystal CdS was investigated by a resonator method in the 3 cm band, with an aim at finding the stationary photoconductivity characteristics and determining from them the parameters of the adhesion and recombination levels in semiconductors of the CdS type. The theory of the process is briefly described. The experimental set-up used is shown in Fig. 1 of the Enclosure. The single-crystal CdS measured 0.4 x 0.25 x 0.1 cm and was placed on the broad wall of the resonator and illuminated through a hole in the narrow wall by a 400-watt motion picture lamp whose light was focused on the sample. The light wavelength was in the strong-absorption region (4750 Å). An analysis of the lux-ampere characteristics obtained at 300 -- 500K yields the energy distribution of the adhesion levels in the energy range 0.15--0.40 eV, and shows the presence of two recom-Card 1/3

bination of the bination of th	ACCESSION NR: AP5012570 bination levels. The concentration of the adhesion levels is of the order of 10 ¹⁷ cm ⁻³ /eV and agrees with the values obtained on the photocurrent growth curves obtained by volume photoexcitation. The values obtained for the recombination coefficients are 10 ⁻¹² and 10 ⁻¹³ cm ³ /sec for the two local recombination levels observe Orig. art. has: 5 figures and 12 formulas. ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physicotechnical In-										ed.
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AUTHOR: Neglither, To. 2.	
TITLE: Concerning the anomalous temperature dependence of currier mounts	
SOURCE: Finite tverdogo tela, v. 7, no. 6, 1965, 1743-1748 TOPIC TAGS: selenium, semiconductor carrier, lemperature dependence, crystal lattice structure, hole mobility, electron mobility	
ABSTRACT: The purpose of the investigation was to check whether the presence of activation barriers in selenium crystals is responsible for anomaly in the temper activation barriers in selenium crystals is responsible for anomaly in the temperature dependence of the carrier mobility. To exclude the influence of the barrier ture dependence of the carrier mobility. To exclude the influence of the barrier ture dependence (~10 ¹⁰ cps), which is about the measurements were made at microwave frequence of the carrier carrier (FIT) made by a resonator method, using apparatus described by the author carlier (FIT)	•
made by a rescantor method, using apparatus described at microwave frequencial v. 7, 1929, 1965). By comparing the temperature variation at microwave frequencial v. 7, 1929, 1965). By comparing the temperature variation at microwave frequencial variation of the electric properties of banagemal selection structure in the determination of the electric properties of banagemal selections.	
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The anomalous behavior whereas at microwave ing temperature. The contains activation be selenium. Once the is mobility in hexagonal	requencies the more results agree wit rriers which seperitures of these	h the notion the individual to the sense help	nat polycryst idual crystal iminated, the	alline seleni e of the hexa true carrier of by the the	Eccur.
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AUTHOR: Meylikhov,		보통 (14 명)(1917년 전 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	\mathcal{B}
TITIE: Kinetics of	the thermal ionization of	an aerosol	
	zhurnal, v. 27, no. 4, 196		
DOUNCEL FOTTOTHEN	anomilation.	, kinetic gas theory, kinetic	theory
TOPIC TAGS: aerosol	r. Tourseriou. Coasuratou	the thornel tonization of an i	aerosol
ABSTRACT: A differe	ential equation describing	the thermal ionization of an	
has been derived as dy(l)	B exb (1/200) exh [4 (1/00) 4(1	(y (1)+000 ln 0. [y (1), 2no 3/0 y (1)])	
. dt.	1 + 500 in 00 ly	(f), 2na 21/dy 2 (f)	
where the parameter	y(t) is given by	$-\frac{y(0)^2}{ A ^{1+(A)}}$	
	$N_m(t) = \frac{N}{\sqrt{2\pi\sigma_0^2}} \exp\left\{-\frac{[m-1]}{2\pi\sigma_0^2}\right\}$	250 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
据明 医克尔氏管 经营业 化二氯矿	The state of the s	12 CH 6. 11	
	$n_s(t) = N \left\{ y(t) + \sigma_0^s \frac{\partial \ln \sigma_0}{\partial t} \right\}$	dy (n)	

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B by	$B = \frac{A\Omega T^{2}}{e} \exp\left(-\frac{\varphi + \delta e^{2/r}}{kT}\right),$	
σ 0 μ	$\sigma_0^2 = rkT/e^2$; $y_0 = \sigma_0^2 \ln(B/\alpha n_e^0) + 1/2$,	
or by	$\alpha = \pi r^2 A/A_0 (8 kT/\pi m_c)^{1/2}; $	
funktsiyam, Izd-v	cal function of A. M. Zhuravskiy (Sprayochnik po elliptical AN SSSR, 1941), t - the time, k - the Boltzman constant cure, n_0 - the electronic concentration, N_m and pm - the cure, n_0 - the electronic concentration, n_0 are spectively, n - otion of aerosol particles of charge me respectively, n - otion of aerosol particles of charge me respectively, n - otion of aerosol particles of charge me respectively, n - otion of aerosol particles of charge me respectively.	oncentra-
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A	63830-65 CCCESSION NR: AP5020226 It follows from this equation that the time for the attainment of a 90% equilibrium ion concentration is given by
	ion concentration is given by $\tau_1 = 0.83/2N$. The coagulation process was also investigated, and it was found that the times retrieve coagulation process was also investigated, and it was found that the times retrieve coagulation process was also investigated, and it was found that the times required for a significant change in the concentration T_N and particle size T_T to quired for a significant change in the concentration T_N and particle size T_T
	obour are given by $\tau_N \sim 1/KN_0$, $\tau_r \sim 10/KN_0$.
2	where K, V and Y are given by $K = 2\sqrt{2\pi r^2 V \gamma}$, $V = (8kT/\pi M)^{1/3}$, $\gamma = \lambda/(\exp \lambda - 1)$, $\lambda = y_0^2 e^2/2 r kT^2$. M is the mass of an aerosol particle. It is concluded that the coagulation process is much slower than thermal ionization. Orig. art. has: 2 graphs and 21 equations. is much slower than thermal ionization. Orig. art. has: 2 graphs and 21 equations. ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut g. Dolgoprudnyy (Moscow ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut g. $M = \frac{2}{3} \frac{1}{3} $
	ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy ME, Physico-Technical Institute) SUB CODE: GC
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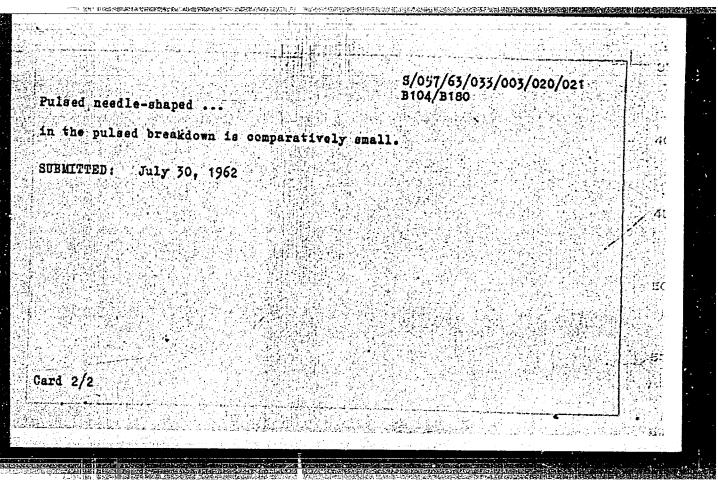
<u>L 5035-66</u> EWT(m)/EPF(c)/EPA(w)-2/T DS/WW/JAJ	
ACCESSION MR: AP5024020 UR/0069/65/027/005/07	28/0730 62 15
AUTHOR: Meylikhov, Ye. Z.	<u> </u>
AUTHOR: Meylikhov, Ye. Z. TITLE: Conductivity of a thermally ionized aerosol SOURCE: Kolloidnyy zhurnal, v. 27, no. 5, 1965, 728-730	
SOURCE: Kolloidnyy zhurnal, v. 27, no. 5, 1965, 728-730	
TOPIC TAGS: electric conductivity, serosol, thermal ionization particle, collision cross section	n, plasma charged
ABSTRACT: Analytical expressions are derived for the conductive brium aerosol plasma created by the thermal ionization of an accase of relatively low temperatures T or small size r of the (rkT < 1). The following formulas were obtained for two species	erosol particles
Case 1. For $1/277 \angle \sigma_0^2 \angle 1$ (where $\sigma_0^2 = \text{rkT/e}^2$),	
$\sigma = 0.532 \frac{e^{\frac{1}{4}}}{(m_{\mu}kT)^{1/4}} \frac{1}{Q_{ence} e^{\frac{1}{4}} + p^{2} + exp \left(-\frac{p}{20^{\frac{1}{4}}}\right) Gase^{\frac{1}{4}\frac{1}{4}} + \sum_{k} \frac{p^{2k}}{p^{2}}$	
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	Case 2. For 21202 21	$0.532 \frac{\sigma}{(m_s kT)^{1/s}} \cdot \exp\left(\frac{y}{\sigma_s^2}\right) \left[\exp\left(\frac{y}{\sigma_s^2}\right) + \exp\left(\frac{1}{2\sigma_s^2}\right)\right]$ $\frac{y}{\sigma_s^2} \left[\exp\left(\frac{y}{\sigma_s^2}\right) + \exp\left(\frac{1}{2\sigma_s^2}\right)\right] + \exp\left(-\frac{y^2}{\sigma_s^2}\right) + \sum_{i=1}^{s} \frac{y}{\sigma_s^2} \left[\exp\left(\frac{y}{\sigma_s^2}\right) + \exp\left(\frac{1}{2\sigma_s^2}\right)\right]$	
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S/057/63/033/003/020/021 B104/B180 B104/B180 AUTHORS: Komelikov, V. S., Meylikhov, Ye. Z., and Pimoshin, A. A.	
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B104/B180 B104/B180 Revlikhov, ye. Z., and Pimoshin, A. A.	
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Yomel'kov. V. S., Meylikhov, 10. D.	
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ACCESSION NR: AP3005504

AUTHOR: Komel'kov, V.S.; Keylikhov, Ye.Z.

TIELE: Growth of negative Lichtenberg figures in nanosecond intervals

SOURCE: Zhurnal tekhnicheskoy fiziki, v.33, no.8, 1963, 943-944

TOPIC TAGE: Lichtenberg figure , point-plane discharge

ABSTRACT: Negative point to plane Lichtenberg figures were produced by 5 to 15 kV pulses lasting from 10 to 100 nanoseconds. The experiments were undertaken in the hope of obtaining information shout electron velocities in strong non-uniform fields. The pulses were produced by a generator similar to that described by R.C.Fletcher (Phys.Rev., 76, 1501, 1949) and had rise and fall times not exceeding 4 nanosec. The figures were produced by a point electrode on a plane electrode covered with a photographic film. For pulse durations greater than about 20 nanosec the size of the Lichtenberg figures depended only on the potential and not on the pulse duration. For shorter pulses the size of the figure increased with the pulse length. Growth rates of the order of 108 cm/sec were observed. From these large growth rates and the absence of bright spark filaments, the authors conclude that the ionization me-

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ACCESSION NR: AP3005504

chanism cannot be simple electron avalanche formation. To investigate any delay in the onset of the creep discharge, figures were produced by 100 nanosec pulses with 0.2 nanosec risetimes and the surges in the electrode circuit were observed. With the point electrode touching the film no delays greater than 0.5 nanosec were found. With the point separated from the film by distances up to 0.2 mm, delays, increasing with the separation, up to about 20 nanosec occurred. When the space between the electrode and the film was illuminated by a mercury are lamp, the delays were shorter and more uniform. Orig.art.has: 4 figures.

ASSOCIATION: none

SUBMITTED: 30Jul62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 001

OTHER: 004

Card 2/2

1. 00.300-07 2.07(1) 1.07(0) AT
AUTHOR: Maylikhov, Ye. Z.
CRG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut)
TITLE: Measurement of the photoconductivity of semiconductors at microwave frequencies
SCURCE: IVUZ. Fizika, no. 3, 1966, 83-89
TOPIC TAGS: photoconductivity, electron paramagnetic resonance, microwave spectroscopy, cavity resonator, light absorption, light excitation
ABSTRACT: After pointing out that the microwave method of measuring photoconductivity has many features in common with the method of investigating electron paramagnetic resonance the author derives relations connecting the parameters of the resonator with the parameters of the photoconducting sample placed in the resonator and illuminated with light. The conditions corresponding to optimal sensitivity of this method of photoconductivity measurement are derived. Formulas that permit the quantitative calculation of the photoconductivity by the resonator method are derived. Cases are considered of different placements of the sample in a cylindrical resonator operating in the Holl and Folo modes, and a rectangular resonator operating in the Holp mode. The relations derived are valid for an arbitrary character of light absorption, but with the diffusion of the photoexcited carriers neglected. Working formulas are derived for a measuring circuit using transmission through a resonator. All the derived for a measuring circuit using transmission through a resonator.
Card 1/2

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L 23151-66 EWT(m)/EWP(t) IJP(c) JD

ACC NR: AP6006843 SOURCE CODE: UR/0181/66/008/002/0541/0545

AUTHOR: Meylikhov, Ye. Z.

ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut)

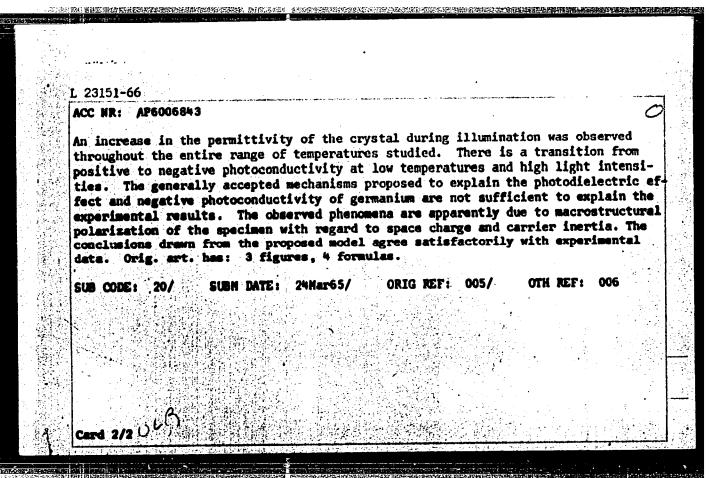
TITLE: Photodielectric effect and negative photoconductivity in germanium at a frequency of 100 Gc

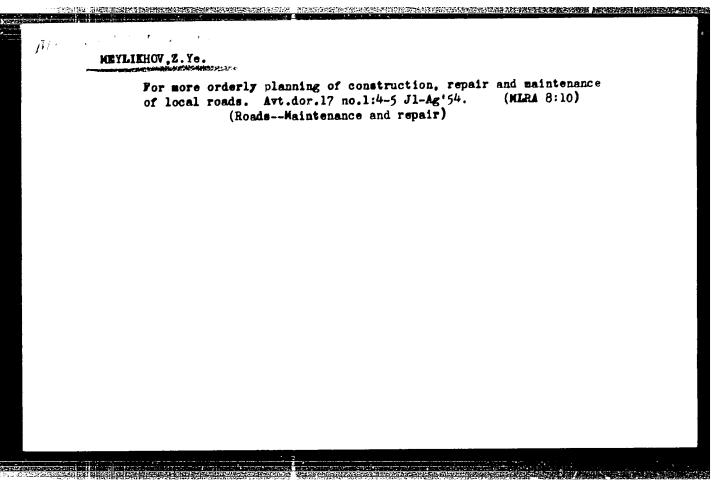
SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 541-545

TOPIC TAGS: photoconductivity, germanium, single crystal, permittivity, illumination optics, resonator

ABSTRACT: The resonator method was used for studying the photodielectric effect and photoconductivity of small single crystals of germanium in the 300-90°K range at a frequency of 100 Gc. The specimens were exposed to the light of a 400 w studio lamp passed through a condenser, calibrated iris, special lens system and plexiglass light guide into the resonator. The temperature of the specimen, which was located on the end wall of the resonator, was measured by a copper-constantan thermocouple. Changes in the shf power passing through the resonator and the displacement of its resonance frequency were recorded during illumination of the specimens.

Card 1/2

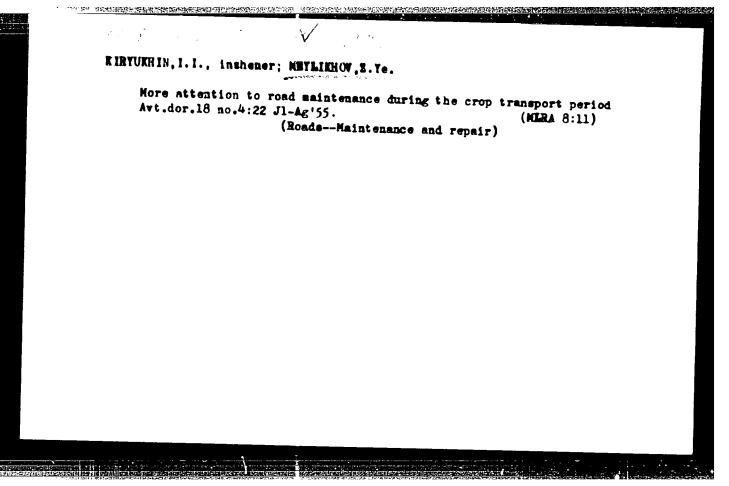




MEYLIEHOW, Z. Ye., inzhener; ROZOV, N.A., inzhener

A network of improved roads is being built in the regions reclaiming virgin and new lands. Avt. dor. 18 no.3:4-5 Ny-Je '55. (Roads)

(Roads)



DOBROLYUBOV, Ye.M., inshener; MEYLIKHOV, Z.Ye., inshener.

Mechanical enrichment of limestone Fubble. Avt. dor. 19
no.7:9-10 J1 '56.

(Road materials)

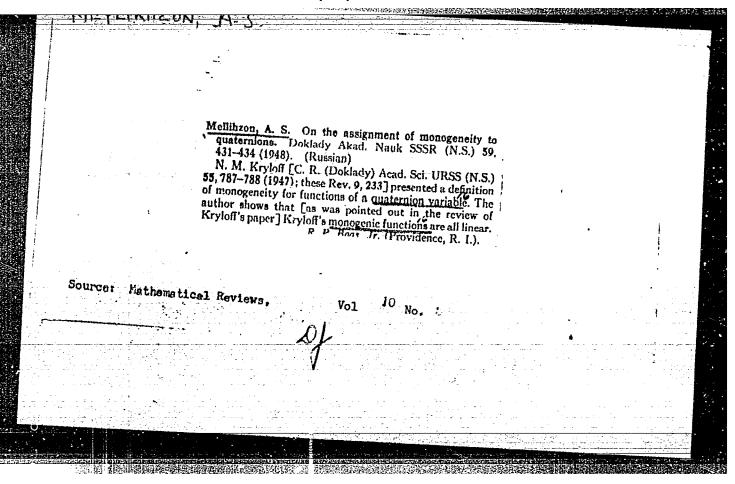
MEYLIKHOV, Ye.2.

Determining the parameters of trapping and recombination levels in CdS. Fiz. tver. tela 7 no.5:1529-1534 My 'o5. (MIRA 18:5)

1. Moskovskiy fiziko-tekhnicheskiy institut.

Pulsed breakdow tekh. fiz. 33	no.3:373-374	ips in stron Mr '63. Blectric)	(MIRA 16:5
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	Deplete West New Seep 18 5 88 981 984 (1947)	
	Rassion Let a satisfy an algebraic up attor of the form	
and a facility for a second	$j^n + P_1 j^{n-1} + \cdots + P_n = 0;$	
가 있다. 그 사람들은 사람들이 되었다. 	let t be a generalized complex variable,	
	$\zeta = x_0 + jx_1 + \cdots + j^{n-1}x_{n-1},$	
	where the x_k are independent real variables, and let $F(\zeta)$ be a generalized complex function of ζ ,	•
	$F(\zeta) = u_0(\zeta) + ju_1(\zeta) + \cdots + j^{n-1}u_{n-1}(\zeta).$	
	where the $u_k(t)$ are real functions of the n real variables x_0, \dots, x_{n-1} . The author obtains linear partial differential equations, analogous to the Cauchy-Riemann equations, which necessarily are satisfied if dF/dt exists. Analogues of the Cauchy integral theorem and the theorem of Morera are established for the case $n-3$. Beckenback.	And Sad
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MEYLIKHZON, I. Conference on the problem of creating a new kind of mine surface. Ugol' 39 no.1:74 Ja 'bh. (MIRA 17:3) 1. Gosudarstvennyy natrose-issletovatel'skiy i proyektnyy institut ugol'noy, rudnoy, neftyancy i gazovoy promyshlennosti Ukrainskoy SSR.

BERLOVICH, E.Ye.; MEYLING, V.; TARASOV, V.K.

Applicability of the Ikegami - Udagava method in allowing for pair correlations when calculating the probability of electromagnetic transitions in deformed nuclei. Izv. AN SSSR.Ser. fiz. 29 no.5:846-848 My '65. (MIRA 18:5)

- 1. Fiziko-tekhnicheskiy institut im. A.F.Ioffe AN SSSR.
- 2. TSentral'nyy institut yadernykh issledovaniy, Rossendorf, Germanskaya Demokraticheskaya Respublika (for Meyling).

PETROVA, S.V.; MEILITSEVA, T.I.

Reorganize the edition of literature for workers. Mashinostroitel' no.7:47 Jl '62. (MIRA 15:7)

(Technology—Information services)

PHASE I BOOK EXPLOITATION SOV/4556

- Ayzenberg, B.I., Engineer, B. M. Kleymenov, Engineer, S.K. Mamontov, Engineer, B.M. Meyl'man, Engineer, Ya. S. Mindlin, Engineer, A.M. Palant, Engineer, and Ye. S. Yampol'skiy, Engineer
- Proyektirovaniye mashinostroitel'nykh zavodov; spravochnoye posobiye po organizatsii i metodike proyektirovaniya (Planning of Machine-Building Plants; Reference Book on the Organization and Methods of Planning) Moscow, Mashgiz, 1960. 379 p.
- Ed.: B.I. Ayzenberg, Engineer; Reviewer: I.S. Zotov, Engineer; Ed. of Publishing House: V.I. Yakovleva; Managing Ed. for Information Literature; I.M. Monastyrskiy, Engineer; Tech. Ed.: Z.I. Chernova.
- PURPOSE: This book is intended for engineers and technicians engaged in planning machine-building plants.
- COVERAGE: The authors discuss problems in the organization of planning machine—building plants. Included is information on the makeup of planning organizations, development of documentation, selection of construction site, investigations of plants to be reconstructed, preparation of planning, examination and

Planning of Machine-Building (Cont.) SOV/4556 approval of documentation, and mechanization of calculations and drafting. Definition of principal concepts are given and the contents of the planning documentation are discussed. No personalities are mentioned. References accompany two TABLE OF CONTENTS: Ch. I. Organization of Planning (By A.M. Palant, Engineer) Statute of the main planning institute 5 Planning the design and investigative work, and the operations of planning ś Apportionment of resources for planning and investigating, and financing

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Relations between chief and specialized planning organizations Contract regulations regarding execution of plans and investigations 21 Determining planning cost. Planning price lists. List of headings. 24 Morms for direct and overhead expenses of planning and in investigating 26 Card 2/9

Relations between customers ordering plans and the chief planning organiza-

24,7100

5/070/62/007/002/004/022

E132/E160

AUT.IURS: Tsukerman, B.I., Meyl'man, M.L., and Sorokina, L.P.

TITLE: Radiospectroscopic orientation of crystals PERIODICAL: Kristallografiya, v.7, no.2, 1962, 224-226

TEAT: The method described can be used for the orientation of crystals with paramagnetic impurities with an accuracy of about 1'. A simple two circle goniometer is used to turn the crystal specimen in the resonator chamber. The loci of Particular resonances are followed and the courses are plotted out on a specially constructed sphere. From the shape of the loci the symmetry of the crystal can be identified. qualitative analysis of the nature of the paramagnetic impurities can be made. There are 5 figures.

SUBMITTED: April 18, 1961

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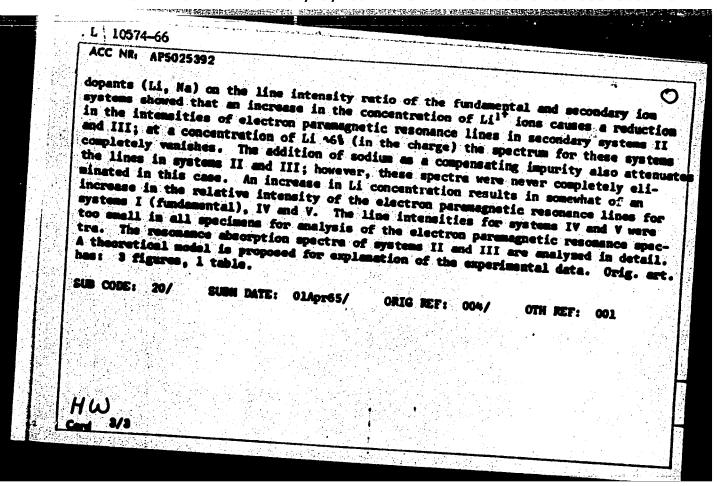
Card 1/1

L 1136-66 EWT(m)/EPF(c)/T/EWP(t)/EWP(b)/EWA(c) IJP(c)-JD/-3-UR/0192/65/006/004/0643/0645 ACCESSION NR: AP5021679 538.113 AUTHOR: Litovkina, L. P.; Meyl'man, M. L.; Andrianov, V. G.; Sergeyava TITLE: Electron paramagnetic resonance of Cr^{3+} ions in single crystals of b^{6} MgMoO4 1 SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 4, 1965, 643-645 TOPIC TAGS: electron paramagnetic resonance, metal crystal, crystal structure chromium, magnesium, molybdenum, magnetic susceptibility, crystallography ABSTRACT: A study was made of the spectrum of the electron paramagnetic resonance of Cr3+ ions in MgMoO4 crystals, synthesized at atmospheric pressure, at a frequency of 9.4 megacycles at room temperature. The concentration of chromium in the melt was approximately 0.06%. The presence of five physically non-equivalent systems of ions was established. Two of these (the so-called basic ionic systems) had a sufficient intensity of resonance transitions and were studied in detail. Experimental results indicate that MgMoO4 crystals belong to the monoclinic system and that their symmetry belong to one of the three point groups: 2(C2), m(Cs), or 2/m (C2h). The results obtained were verified by X-ray

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vas demonstrated tha groups: C2m (C _{2h} ³), rmine the position of ns with respect to the Rodkina for aid in c	at MgMoO ₄ crystal C2 (C ₂ ³), or Cm(f the axes of magn e crystallographic earrying out the me	ls can have one (C _S ³). A table etic susceptibil axes. "The axes assurements an	of the shows th ity of the uthors as d to
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	vas demonstrated the groups: C2m (C _{2h} ³), rmine the position of the Rodkina for aid in Cad G. F. Belova for figure and 3 tables	ndently of the results of the electron payas demonstrated that MgMoO ₄ crystal groups: C2m (C _{2h} ³), C2 (C ₂ ³), or Cm rmine the position of the axes of magnins with respect to the crystallographic Rodkina for aid in carrying out the med G. F. Belova for their help in comp figure and 3 tables	indently of the results of the electron paramagnetic results demonstrated that $MgMoO_4$ crystals can have one groups: $C2m (C_{2h}^{-3})$, $C2 (C_2^{-3})$, or $Cm (C_8^{-3})$. A table rmine the position of the axes of magnetic susceptibiles with respect to the crystallographic axes. "The axes $Rodkina$ for aid in carrying out the measurements and G . F . Belova for their help in computer calculation figure and G tables

 $\frac{10574-66}{10574-66} \quad \text{EMT(1)/EMT(m)/EEC(k)-2/T/EMP(t)/EMP(k)/EMP(b)/EMA(m)-2/EMA(c)}$ IJF(c) WG/JD/WW/GG ACC NR: AP5025392 SOURCE CODE: UR/0181/65/007/010/3099/3101 44, 55 41,55 44.55 AUTHOR: Atsarkin, V. A.; Litovkine, L. P.; Heyl'man, H. L. ORG: Bone 21,14155 TITLE: Electron paramagnetic resonance and spin-lattice relexation of nonequivalent chromium ion systems in sinc tungstate single crystals SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3099-3101 TOPIC TAGS: sinc compound, tungstate, chromium, EPR spectrum, spin lattice relexation, single crystal, paramagnetic ion ABSTRACT: The authors study the electron paramagnetic resonance spectrum and temperature dependence of spin-lattice relaxation in admixed systems of Cr³⁷ ions in ZnHO, single crystals grown from a melt by the Czochralski method. The number of paramagnetic systems of ions and the position of the paramagnetic exes of these systems with respect to the crystallographic axes were determined by the "spherical plotting" method (B. I. Tsukerman, H. L. Heyl'man, L. P. Sorokina, Kristallografiya, 7, 224, 1962). At room temperature at a frequency of 19.4 Gc in specimens with various Cr3 concentrations (Cr/Zn > 0.1-0.5% in the initial charge) the pattern observed (in a field # - 3300 cereteds) was symmetric with respect to plane (010) of the crystal, corresponding to a monoclinic system. It was found that there is one main system and four secondary (pairwise-equivalent) systems of lone. The extel orientations Card 1/3

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ENT(1)/ENT(m)/ENP(t)/ENP(b) LJP(c) JD/WW/GG ACC NR: AP5025396 SOURCE CODE: UR/0181/65/007/010/3108/3109 AUTHOR: Heyl'man, H. L.; Solov'yev, N. N. 80 74/ ORG: none \mathcal{B} TITLE: Paramagnetic resonance of gadolinium in artificial powellite SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3108-3109 TOPIC TAGS: calcium compound, molybdate, EPR spectrum, gadolinium, magnetic field intensity, crystal 21,44,55 ABSTRACT: Basic data are given from a study of the electron paramagnetic resonance spectrum of trivalent gadolinium ions in calcium molybdate crystals. The specimens were grown from a melt by the Czochralski method. The melt contained 0.02-1% Gd. The measurements were made at a frequency of 49.4 Gc at room temperature. Curves are given for the energy levels of Gd3+ ions in powellite as a function of constant magnetic field strength for various orientations of the crystal in the field. A detailed analysis of the experimental data will be published in a later paper. authors are grateful to D. I. Mukhina for assistance with the measurements, and to Cord 1/2

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L 42301-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/3G

ACC NR. AP6026679 SOURCE CODE: UR/0181/66/008/008/2336/2339

AUTHOR: Meyl'man, M. L.; Samoylovich, M. I.; Potkin, L. I.; Sergeyeva, N. I

ORG: none

TITLE: Electron paramagnetic resonance of gadolinium in single crystals of barium molybelate

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2336-2339

TOPIC TAGS: electron paramagnetic resonance, crystal impurity, gadolinium, barium, molybdate, ionic crystal, single crystal property

ABSTRACT: This article briefly describes methods of synthesizing single crystals of BaMoO₄ and presents the results of investigating the electron paramagnetic resonance spectrum of impurity ions Gd³⁺ in these crystals at room temperature at a frequency of about 9.3 Gc. The parameters of the spin Hamiltonian describing the energy levels of the ions Gd³⁺ and the observed resonance spectrum are found. The data obtained are compared with results of investigating the EPR spectra of gadolinium in a series of geometrically similar molybdate crystals. An investigation of the isomorphism of ions Gd³⁺ in tetragonal molybdates revealed that the observed g-factors are low-anisotropic and identical (within limits of accuracy of the experiment) in all crystals of this group. The injection of ions Gd³⁺ occurs in the same manner, un-

Card 1/2

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ACC NR. AP6026679 like other ions of rare earths (Nd. Yd. etc.). The ling impurities on the parameters of the EPR specific impurity ions. The authors excess charge of the impurity ions. The authors tions on the electron digital computer and L. I. art. has: 1 figure. SUB CODE: 20/ SUBM DATE: 27Dec65/ OF	The state of the s
Cord 2/2 /44	

ACC NR: AP7005367

SOURCE CODE: UR/0161/06/00//012/3693/3653

AUTHOR: Meyl'man, M. L.

CRG: none

TITLE: Paramagnetic resonance of gudolinium in synthetic stolzite

SOUPCE: Fizika tverdogo tela, v. 3, no. 12, 1966, 3656-3658

TOPIC TAGG: gadolinium, electron paramagnetic resonance, spin resonance, tangcuate, molyudate

AFSITMOT: The author compares values of the spin Hamiltonian parameter and the initial splittings of the levels of the ground state of the Gd3+ ions in the physical line field of stolaite, by extrapolating the published data for ChMO, and IoNA. The values obtained in this manner were checked experimentally by measuring at MIP spectrum in synthetic suclaite single crystals prepared by the Czochralaki metali. The of a digital computer. Some of the extrapolation curves were taken from an arrifer polated ones, indicating a somewhat loss intense interaction between gadolinium for also lead to the conclusion that the assumed linear connection between the parameters of the structure unit cell and the parameters of the interaction is too crude an approximation. A detailed analysis of the results will be published later. The author

Card 1/2

ACC NR: AP700567

thanks N. S. Vronskaya for help with the measurements and V. Ya. Yershov for the computer calculations. Orig. art. has: 3 formulas.

SUB CODE: 20/ SUBM DATE: 20Jun66/ ORIG REF: 005/ OTH REF: CC3

Card 2/2

47-58-1-26/35

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Meyl'man, M.L. AUTHOR:

Graphic Problems on Geometrical Optics (Graficheskiye za-TITLE:

dachi po geometricheskoy optike)

Fizika v Shkole, 1958, pp 68-70 (USSR) PERIODICAL:

The author suggests problems for pupils to "activate" ABSTRACT:

their thinking and fix in their memory the newly acquired

knowledge in the field of geometrical optics.

There are 9 figures.

612-ya srednyaya shkola, g. Moskva (The 612th Secondary School, Moscow) ASSOCIATION:

Library of Congress AVAILABLE:

Card 1/1

CHEBYKIN, G.N. (g.Polevskoy Sverdlovskoy oblasti); EELESKOV, R.1. (stantsiya Konotop); GOTSMAN, R.B.; MEYL'MAN, M.L.

Problems on artificial earth satellites. Fiz. v shkole 18 no.3:80-84 (NIRA 11:4)

Ny-Je '58.

1.Severo-Kasakhskiy pedagogicheskiy institut. Petropavlovsk (for Gotsman). 2. 612-ya srednyaya shkola, Moskva (for Neyl'man). (Artificial satellites---Problems, exercises, etc.)

22(1)

504/47-53-2-26/31

AUTHOR:

Meyl'man, M.H.

TITLE:

Problems and questions on Optics (Lada mi i voprosy po optike)

PERIODICAL:

Fizika v shkole, 1959, Nr 2, pp 87-88 (USSR)

ABSTRACT:

The article contains 19 different basic questions on optics.

There is 1 diagram.

ASSOCIATION: 612-ya shkola, Moskva (School Nr 612, Moscow)

Card 1/1

124-57-2-1953

2000年,1900年

Translation from Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 67 (USSR)

AUTHORS Voytkinskiy, Ya.I., Meylunas, V.F.

TITLE: Investigation of the Hydrodynamic Characteristics of Ships Making

Headway and Engaged in a Yawing Motion About a Vertical Axis (Issledovaniye gidrodinamicheskikh kharakteristik sudov pri

dvizhenii lagom i vrashchenii vokrug vertikal'noy osi)

PERIODICAL Tr Leningr korablestroit in-ta, 1954, Vol 14, pp 74-52

ABSTRACT Results obtained from experiments with three models of tugboats are described During a stationary headway motion of the

models, characterized by Froude numbers relative to the width of up to 030-034, the magnitudes of the hydrodynamic resistance were determined, as well as the heeling moments for a number of constant values of the angle of heel. It is shown that during such a movement the point of intersection of the direction of the force exerted by the water on the model with its diametral plane is located between the waterline and the initial metacenter; the

location of the point and the magnitude of the resistance coefficient depend only very slightly on the speed. In addition, the article

Card 1/2 contains data on the entrained mass and the entrained moment of

124-57-2-1953

investigation of the Hydrodynamic Characteristics of Ships (cont.)

inertia of the water during nonstationary headway motion of the models without heeling or yawing about the vertical axis through the center of gravity. The magnitudes of the moments of the hydrodynamic forces are given for a constant-speed rotation. All these data may be utilized to evaluate the stability during the impingement of jerks from the towing cable, or under the action of a wind, as well as in the calculation of the warping and alongside docking of ships having shapes similar to those of the models investigated

I P Lyubomirov

1. Ships--Motion 2 Unip--Yaw 3 Ships--Hydrodynamic Sharacteristics

Card 2/2

MEYLUNAS, V.F.

Effect of nicotinic acid on the secretory and motor functions of the stomach. Trudy ISGMI 20:203-212 '54. (MIRA 10:8)

 Kafedra propedevtiki vnutrennikh bolezney Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta, zav. kafedroy - prof. S.M.Ryss.

(NICOTINIC ACID, effects, on gastric secretion & stomach motor funct.) (STOMACH, effect of drugs on, nicotinic acid, on motor & secretory funct.) (GASTRIC JUICE, secretion, eff. of nicotinic acid)

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MEYLUNAS, V.F.

Effect of vitamin Bl on the secretory-motor function of the stomach in peptic ulcer. Trudy ISGMI 20:213-224 154. (NIBA 10:8)

1. Kafedra prpedevtiki vnutrennikh bolesney Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta, sav. kafedroy - prof. S.M. Ryss.

(PEPTIC UICER, physiology,
 eff. of vitamin Bl on stomach motor & secretory funct.)
(STOMACH, effects of drugs on,
 vitamin Bl, on motor & secretory funct. in peptic ulcer)
(VITAMIN Bl, effects,
 on stomach motor & secretory funct. in peptic ulcer)
(GASTRIG JUICE,
 secretion, eff. of vitamin Bl in peptic ulcer)

	TELEBOOK PERSONAL SECTION OF SECULO SE SECULO S	(p)
DORIN,	Viktor Sergeyevich; MEYLUNAS, V.F.otvetstveny redektor; MISHKEVICH, G.I., redaktor; KAMOLOVA, V.M., tekhnicheskiy redaktor	
	[How and why a ship floats] Kak i pochemu plavaet sudno. Leningrad, Gos. sciuznoe izd-vo sudostroit. promyshl., 1957 113 p. (MLRA 10:5)	
		1885

MEYLUNAS, V.F.

Calculating diagrams of the static stability of a disabled ship using cross-curves of stability. Trudy LKI no.26:119-122 '59.

(MIRA 14:9)

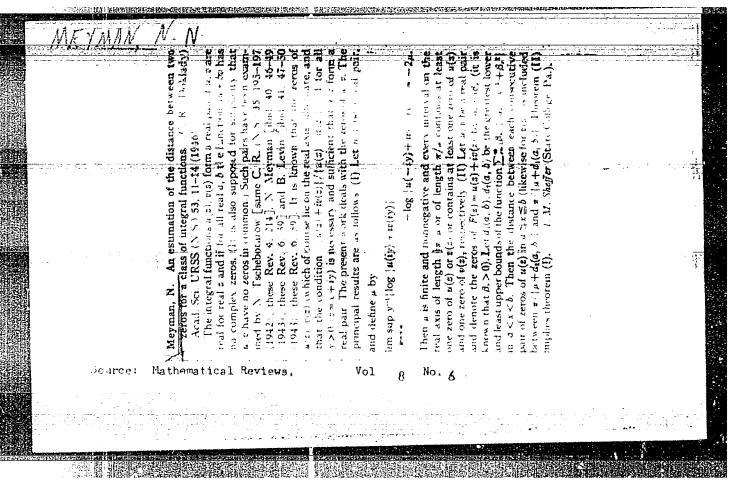
1. Kafedra teoreticheskoy mekhaniki Leningradskogo korablestroitel*nogo instituta.

(Stability of ships)

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LUCHANSKIY. Iosif Aleksandrovich; YANOVSKIY. Aleksandr Aleksandrovich;
METLINAS, V.F., neuchnyy red.; STOLYARSKIY, L.L., red.;
METLINAS, V.F.,

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	SO: Mathematics in the MSST, 1017-1047 edited by Kurosh, A.G., Markushevich, A.I., Rashevskiy, P.K. loscow-Leningrad, 1048	
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MEYMAN, N.N.	3
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Duklydy is bounded in $z > 0$, $z > z > 1$ become 1 $F(z) eR$, if $z > 1$	4 · ·
by oman, N. N. On a class of outre tinctures. (Russian) if the following conditions are satisfications	
Akad. Nationally $F(z) = g(z) + ih(z)$, gand have integral times $h(z) = T(z)e^{i(z)} \frac{1}{1} \frac{1 - z/h}{1 - z/h}e^{i(z)} = T(z)h_1(z).$	
tions assuming real values on the composition complication of the property of the second sections are of the	
same parity and whose figures the products are casement	
the control of the co	
are separated by those of the other. The $P(P,(z/a), -P,(z/b))$	
= constant and $h_1'(x)g_1(x) - h_1(x)g_1(x) > 0$ and $h_2'(x)g_1(x) - h_2(x)g_2(x) = 0$. If $F(x)$ has at	
if $-\epsilon$ is not an asymptotic value of $a(\delta) = a(\delta) + a(\delta) a(\delta)$	
have the same number of zeros in \sqrt{S} . TF has only a	
finite number of zeros in y Co, then Text, Common results of the station	
TC R (Doklady) and the state of	
(1943); these Rev. 6. "1	
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