ACC NR: AT7001361: described as having shown itself to have a high degree of sensitivity and contrast when tested in the Polar Institute for the Fishing Industry. Complex automation, and the use of electronic computers to assist in finding fish and in navigation, is contemplated. Orig. art. has: 10 figures and 2 tables.				
SUB CODE: 13,06,09,17/SUBM DATE: 150ct65				
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ı				
Card 2/2				

S/263/62/000/005/005/010 1007/1207

Authors:

Lade, G. I., Shpor, K. K., Yanushkovskiy, V. A.

Title:

RADIOACTIVE MEASURING DEVICES PRODUCED BY THE TALLIN OPTICAL PLANT OF CONTROL -MEASURING DEVICES (KIP)

Periodical:

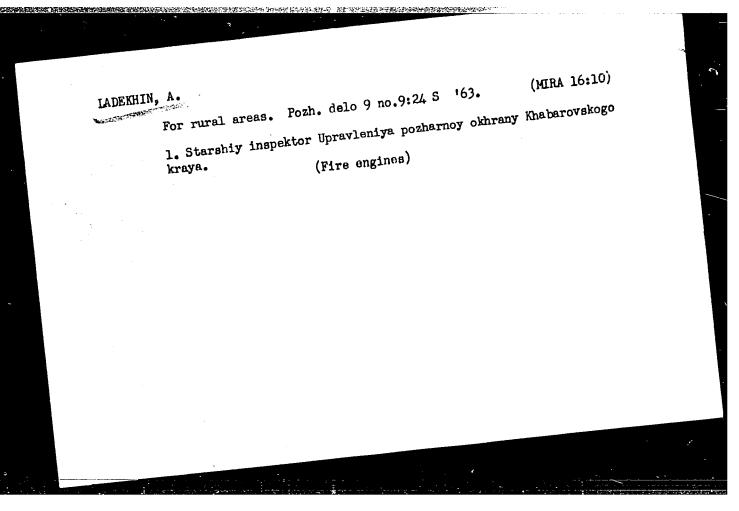
Referativnyy zhurnl, Mashinostroyeniye, no. 5, 1962, 61 abstract 32.5.340 (In sb. "Radioakt. izotopy i yadern. izlucheniya u nar. kh-ve SSSR" v. 1, 1961, 69-74, Moscow, Gostoptekhizdat).

Text: The Tallin optical plant for control measuring devices started in 1959 the mass production of radioactive instruments of the relay type for automation of production processes. These instruments are assembled of standard components: beta and gamma radiation sources, radioactive transducers and electronic relay units of the YPAII (URAP) type. These standard components form the basis of the following apparatus radioactive multiposition level-controllers of the PΠPY-1 (RPRU-1) type consisting of a single-position or a two-position РД-11 (RD-11) radioactive transducer and of the electronic relay units УРАП-3 (URAP-3) or VPAII-2 (URAP-2); the radioactive source consists of a float containing a cobalt 60 isotope or cesium 137 isotope; the PПРУ-3 (RPRU-3) type containing one or two radioactive PД-9 (RD-9) transducers and a standard radioactive beta source БИ-2 (BI-2); radiactive blocking devices: of the БРП-1 (BRP-1) type consisting of the radioactive РД-6 (RD-6) transducer, a УРАП-3 (URAP-3) unit and a БИ-2 (BI-2) source; the БРП-2 (BRP-2) type comprising instead of the radioactive РД-6 (RD-6) transducer, a small size РД-10 (RD-10) transducer; radioactive PK-4 (RK-4) controller for regulating the degree of filling of nontranslucent vessels by liquids; this controller is assembled of the radioactive РД-10 (RD-10) transducer;

Card 1/2

MESZAROS, Miklos (Jaszbereny); LADECZKY, Jeno (Jeszbereny)

A new epicyclic gear with large transmission ratio Gep
16 no.11:431-435 N '64.

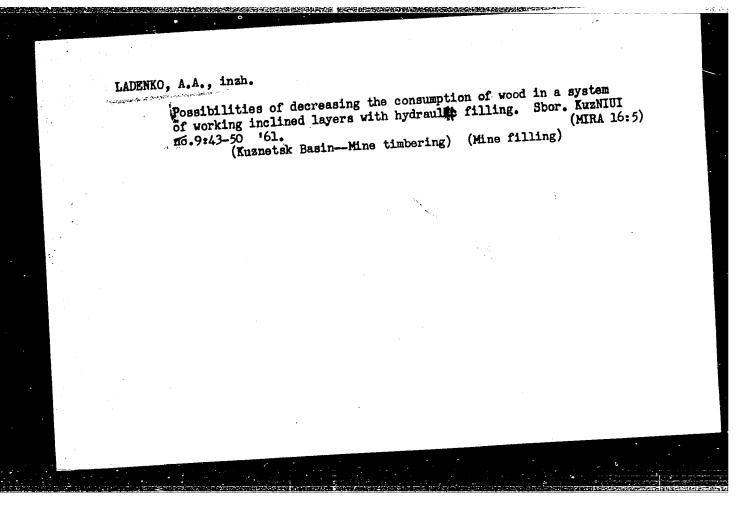


LADENDZINSKI, S.

Thiamine, riboflavin and nacin content in Polish yeasts manufactured under different technological conditions.

P. 156. (Przemsl Spozywczy. Vol. 10, n. 4, Apr. 1956, Warszawa, Poland)

Monthly Index of East European Accessions (ETAI) LC. Vol. 7, no. 2 February 1958



MAMRYKIN, K., inzh.; POLYAKOV, V., inzh.; LADENKO, V., inzh.

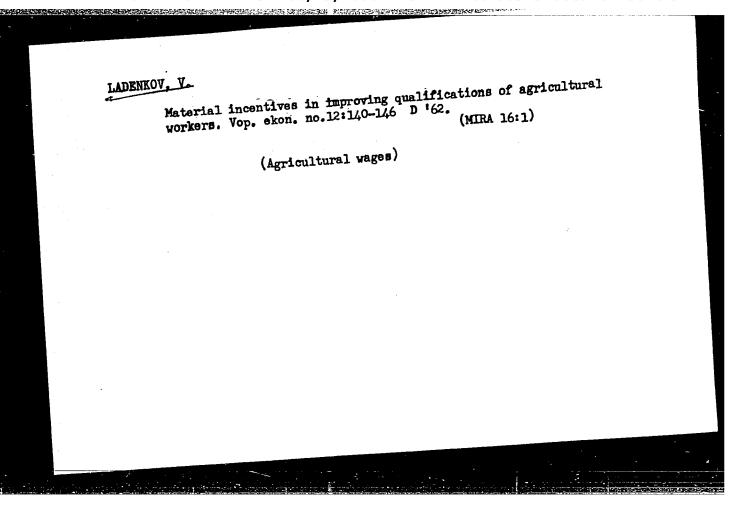
Logs under control. Izobr. i rats. no.8:11 Ag '62.

Logs under control. Izobr. i rats. no.8:11 Ag '62.

1. TSentral'nyy nauchno-issledvatel'skiy institut mekhanizatsii

i energetiki lesnoy promyshlennosti.

(Lumbering—Equipment and supplies)



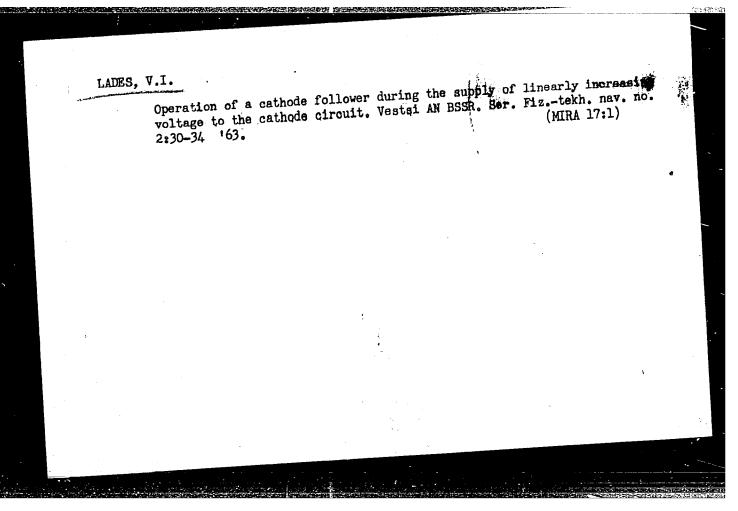
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928410020-5"

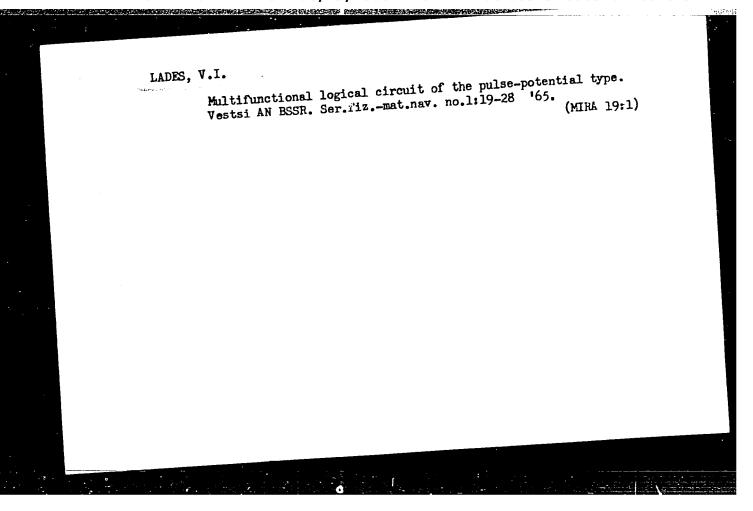
LADERSTEGER, Karoly, Dr. dr.h.c., prof., elnok. (Becs)

New investigation of the theory of the heterogeneous spheroid equilibrum figures. Geod kart 13 no.1:1-8 '61. (EEAI 10:6)

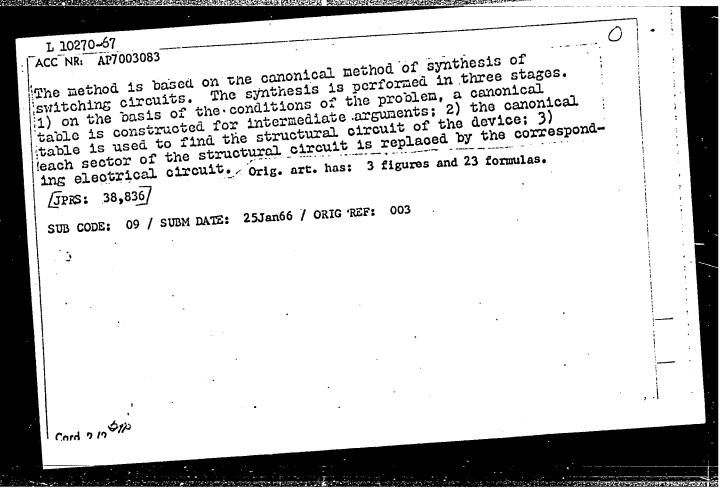
1. Muegyetem, Bacs; Osztrak Felsogeodeziai Intezet. (Earth)

(Geodesy)





L 10270-67 EWF(d)/EWF(v)/EWF(h)/EWF(h)/EWF(l) SOURCE CODE: UR/0201/66/000/003/0093/0099 ACC NR: ALT/003083	· ·
nickh A. She: Lades, V. I.	
ONG: Institute of Technical Cybernetics, AN BSSR (Institut tekhnicheskoy	
NG: Institute of Identification without by linear	
kibernetiki AN BSSK) TITLE: Synthesis of single-cycle systems whose behavior is described by linear	
TITLE: Synthesis of single-cycle system	* -
inequalities SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichesknykh navuk, no. 3, 1966,	
SOURCE: AN BSSR. Vestsi. Seryya Fizika-tokanion	
93-99	- '
TOPIC TAGS: switching circuit, digital computer The control of production processes does not always The control of production processes does not always ABSTRACT: require absolute imowledge of the value of a determinant function of parameters X, Y,, Z. In many cases it is sufficient to use the number axis. The usage of digital computers in terval along the number axis. The usage of digital computers is sometimes limited in such cases by their insufficient speed. As sometimes limited in such cases by their insufficient speed. As sometimes limited in this article for synthesis of circuits method is presented in this article for synthesis of the which allow us to determine the membership of the values of the function U (X, Y,, Z) in a certain given interval of the number axis in one cycle for the case when the function is line	
number axis in one	
$u = A_1 X + A_2 Y + \dots + A_n Z,$	
Card 1/2	



LADESIC, B.; KECLEVIC, D.

The synthesis of some optically active 5, 6-dihydrouracils. In English. p. 47.

CROATICA CHEMICA ACTA. (Hrvatsko kemijsko drustvo, Sveučiliste u Zagrebu i Hrvatsko prirodoslovno drustvo) Zagreb, Yugoslavia. Vol 31, no. 2, 1959.

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

LADESIC, B.; KEGLEVIC, D.

The resolution of 8 -amino-Y-methylsulfinylbutyric acid (g-methionine sulfoxide) into four optical isomers. In English. p. 57.

CROATICA CHEMICA ACTA. (Hrvatsko kemijsko drustvo, Sveuciliste u Zagrebu i Hrvatsko prirodoslovno drustvo) Zagreb, Yugoslavia. Vol. 31, no. 2, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, No. 2, 1960. Uncl.

LADEYNOVA, L.V.

"A Physicochemical Investigation of the Equiblibria and of the Solid Phases in the Trinary System: Zn(OH)₂ -H₂O₂-H₂O. Cand Chem Sci, Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR, 29 Dec 54. (VM, 21 Lec 54)

Survey of Scientific and Technical Dissertations Defended at USSE Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

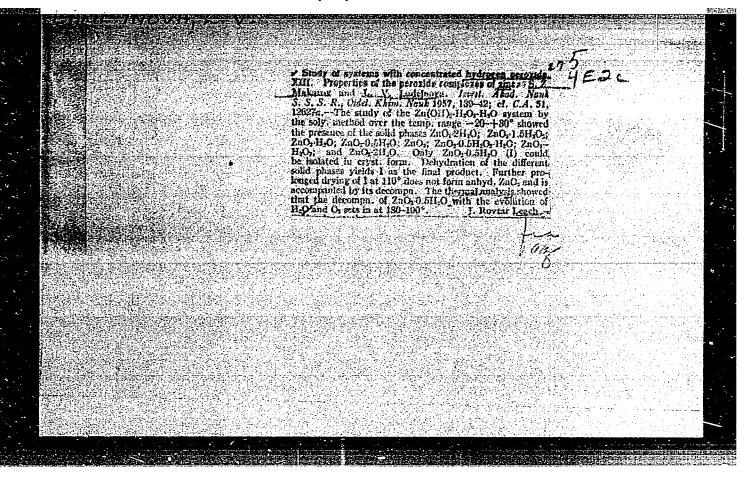
CIA-RDP86-00513R000928410020-5" APPROVED FOR RELEASE: 06/19/2000

LADEYNOVA, L. V., and MAKAROV, S. Z.

"Concerning the Production of Peroxidic Compounds of Zinc, by S. Z. Makarov and L. V. Ladeynova, Institute of General and Inorganic Chemistry Imeni N. S. Kurnakov, Academy of Sciences USSR, Zhurnal Neorganicheskoy Khimii, Vol 1, No 12, Dec 56, pp. 2708-2711

The methods for the laboratory preparation of zinc peroxide that are described in the literature have been subjected to consideration and procedures for the industrial production of this compound evaluated. On the cadures for the industrial production of the system $Zn(OH)_2 - H_2O_2 - H_2O_3$, reduces of an experimental investigation of the system $Zn(OH)_2 - H_2O_3 - H_2O_3$, as thod for the production of ZnO_2 has been developed. The results obtained in the laboratory were checked by applying the method on a plant tained in the laboratory were checked by applying the must be stopped at tained in the laboratory were checked by applying the must be stopped at scale. It has been shown that the industrial process must be stopped at scale. It has been shown that the industrial process dehydration beyond the stage of the formation of $ZnO_2 \cdot O.5$ H2O, because dehydration beyond this point leads to the decomposition of the product.

Sum 1274



CIA-RDP86-00513R000928410020-5 "APPROVED FOR RELEASE: 06/19/2000

LADEVINO VA, L. V.

AUTHORS:

Makarov, S. Z., and Ladeynova, L. V.

62-1-1/21

TITLE:

Investigation of Systems with Concentrated Hydrogen Peroxide. Part 12. The Ternary Zn(OH)2-H2O2-H2O System (Izucheniye sistem s kontsentrirovannoy perekis yu vodoroda. Soobshcheniye 12. Troynaya sistema Zn(OH)2-H2O2-H2O).

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957, No. 1, pp. 3-17 (U.S.S.R.)

ABSTRACT:

The ternary system $\text{Zn}(\text{OH})_2\text{-H}_2\text{O}_2\text{-H}_2\text{O}$ was investigated by the solubility method at temperatures ranging from +30 to - 20°. The authors used pure zinc hydroxide prepared from solutions of zinc and ammonium nitrate and hydrogen peroxide freed of admixtures and stabilizers by vacuum distillation. In order to reduce the possible errors in determining the actual composition of the solid phases, the authors utilized additional structural diagrams of ZnO-H2O2 in liquid phase which determine more reliably the number and limits of the existence of each

Card 1/3

Investigation of Systems with Concentrated Hydrogen Peroxide. Part 12.

The Ternary Zn(OH)2-H2O2-H2O System

solid phase in the system. The actual composition and the sequence of changes in the solid phases in the ternary system investigated were established by studying the data of the liquid phase diagram. At positive temperatures, the solid phases were observed as being well-forming and easily separable from the mother liquid. The solid phases, existing at temperatures of from 30 to - 20°, are listed in four groups.

A comparison of experimental results with literature data showed that a majority of zinc peroxide compounds are mechanical mixtures. A polythermal solubility diagram was formulated which makes it possible to determine the positions of eleven fields corresponding to the existence of solid phases. Data on the composition of the liquid phases are given in Table 11.

Tables, graphs; there are twenty-one references, of which 5 are Slavic.

Card 2/3

62-1-1/21

Investigation of Systems with Concentrated Hydrogen Peroxide. Part 12.

The Ternary Zn(OH)2-H2O2-H2O System

ASSOCIATION:

Academy of Sciences of $V_{\bullet}S_{\bullet}S_{\bullet}R_{\bullet}$, Institute of General and Inorganic Chemistry imeni N_{\bullet} S_{\bullet} Kurnakov.

PRESENTED BY:

SUBMITTED:

June 25, 1956

AVAILABLE:

Library of Congress

Card 3/3

MAKAROV, S.Z.: LADEYHOVA, L.V.

Systems with concentrated hydrogen peroxide. Report Mo.13.
Studying the properties of zinc peroxide compounds. Izv.AN SSSR.
Otd.khim.nauk no.2:139-142 F '57. (MIRA 10:4)

1. Institut obshchey i neroganicheskoy khimii im. N.S. Kurnakova Akademii nauk SSSR.

(Zink peroxide) (Systems (Chemistry))

5(2) AUTHOR:

Ladeynova, L. V.

sov/62-59-2-3/40

TITLE:

Study of Systems Containing Concentrated Hydrogen Peroxide (Izucheniye sistem s kontsentrirovannoy perekis'yu vodoroda) Communication 20. Synthesis of Zinc Peroxide Compounds From the Solutions of Zinc Salts and Physico-Chemical Characteristic of ZnO2 . H2O (Soobshcheniye 20. Sintez perekisnykh

soyedineniy tsinka iz rastvorov soley tsinka i fiziko-

khimicheskaya kharakteristika ZnO2 • H2O)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 2, pp 195-201 (USSR)

ABSTRACT:

In the present paper the methods and conditions of production of zinc peroxide by means of solutions of zinc salts, ammonia and hydrogen peroxide are devised and the properties of the product obtained investigated. In order to obtain ZnO2 . H20 the nitrate of a zinc salt solution was added under continuous stirring to the solution of the ammonia hydrogen peroxide mixture. Experimental conditions and results found are given in table 1. In order to obtain ZnO_2 . 0.5 $\mathrm{H}_2\mathrm{O}$ alkali solution

Card 1/3

Study of Systems Containing Concentrated Hydrogen SOV/Peroxide. Communication 20. Synthesis of Zinc Peroxide Compounds From the Solutions of Zinc Salts and Physico-Chemical Characteristic of ZnO₂ . H₂O

SOV/62-59-2-3/40

AND THE PROPERTY OF THE PROPER

was added to the nitrate of the zinc salt solution until the zinc hydroxide was precipitated. Excess alkali was then added up to the complete dissolution of the precipitate and the solution mixed with hydrogen peroxide solution. On considerable KOH-excess a product in form of a viscous suspension was obtained. After drying in the vacuum at 70° the product revealed only 6.52% active oxygen. In following experiments NH₄OH was used. The results of this investigation are presented in table 2. It could be found that the dehydration of ZnO_2 . H₂O with absolute alcohol and ether leads to the formation of ZnO_2 . 0.5H₂O. The investigation of the properties of the resulting products showed that ZnO_2 . H₂O and ZnO_2 . 0.5H₂O may be regarded as compounds with a hydrogen peroxide structure:

Card 2/3

Study of Systems Containing Concentrated Hydrogen SOV/62-59-2-3/40 Peroxide. Communication 20. Synthesis of Zinc Peroxide Compounds From the Solutions of Zinc Salts and Physico-Chemical Characteristic of ${\rm ZnO_2}$. ${\rm H_2O}$

OOH Zn_OOH

Zn and O

Zn_OOH

Zn_OOH

There are 9 figures, 3 tables, and 5 references, 3 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova

Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences,

USSR)

SUBMITTED: July 15, 1957

Card 3/3

s/062/61/000/001/001/016 B101/B220

AUTHORS:

Ladeynova, L. V., Lozhkina, L. G., and Chernysheva, A. M.

TITLE:

Study of systems with concentrated hydrogen peroxide. Communication 22. The 20° and 0°C isotherms of the

Cd(OH)2 - H2O2 - H2O ternary system -

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh '

nauk, no. 1, 1961, 12-16

TEXT: The authors refer to the different, partly contradictory data on cadmium peroxides. In Ref. 1 they had studied the system $Zn(OH)_2 - H_2O_2$ -H2O, and because of the similar behavior of Zn and Cd they expected to find analogous conditions in the $Cd(OH)_2$ - H_2O_2 - H_2O system. The present report deals with the verification of this assumption. The system was studied by means of the solubility method described in Ref. 1. Residues and liquid phases were analyzed for active oxygen and CdO. The active oxygen was determined by volumetric analysis with KMnO4, the CdO of the residue as cadmium pyrophosphate. In the liquid phase CdO was determined

Card 1/4

s/062/61/000/001/001/016 B101/B220

Study of systems with concentrated hydrogen...

《中国大学》,在1988年,1988年,1988年,1988年,1988年,1988年

by means of dithizon and an Φ 9K-2 (FEK-2) electrophotocolorimeter. To obtain equilibrium in the system, 2 hr were sufficient at 0°C and about 1.5 hr at 20°C. The 20°C isotherm was studied between 0.00 and 89.10% H2O2 in the liquid phase (Fig. 1). The O°C isotherm was investigated between 0.00 and 93.91% H2O2. For both temperatures, 5 solid phases were found whose concentration ranges are indicated in Table 3. The interaction between $Cd(OH)_2$ and H_2O_2 resulted in phases of the hydrate type whose composition is similar to that found in the corresponding system with $Zn(O\hat{H})_2$. An exact analysis of the solid phases of the zinc system indicated that they contained the hydroperoxide group -00H. This should hold true for the cadmium system, too. There are 4 figures, 3 tables, and 13 references: 3 Soviet-bloc and 6 non-Soviet-bloc.

ASSOCIATION:

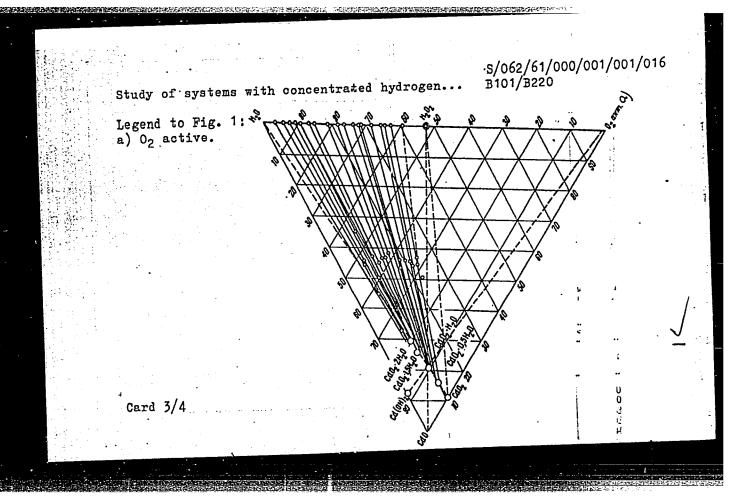
Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov, Academy of

Sciences USSR)

SUBMITTED:

July 10, 1959

Card 2/4



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928410020-5"

S/062/61/000/001/001/016 B101/B220 Study of systems with concentrated hydrogen...

Legend to Table 3: a) concentration range of H₂O₂, % by weight; b) solid phase.

Концентрационные пределы существования твердых фаз в системе $Cd(OH)_2$ — H_2O_2 — H_2O при 20 и 0°

	и Концентрационные пределы 11,01, вес. %	
Твердая фаза	20°	0*
Cd(OH) ₁ CdO ₂ ·2H ₂ O CdO ₂ ·1,5H ₂ O CdO ₂ ·H ₂ O CdO ₃ ·0,5H ₂ O	0,00—11,60 11,60—26,08 26,08—53,32 53,32—72,73 72,73—89,10	0,00—5,40 5,40—23,83 23,83—45,03 45,03—55,34.* 58,34—93,91

Table 3

CIA-RDP86-00513R000928410020-5" APPROVED FOR RELEASE: 06/19/2000

MAKAROV, S.Z.; LADEYNOVA, L.V.

Peroxide compounds of titanium, zirconium, and cerium as products

Peroxide compounds of titanium, zirconium, and cerium as products

Liv.Al

的现在分词,并不是是不是是一个人的,我们就是一个人的人的人,我们们也不是一个人的人的人,就不是一个人的人,我们还是不是一个人的人,我们就是这个人的人,我们们不

of interaction between hydroxides and hydrogen peroxide. Izv.AH (MIRA 14:6) SSSR.Otd.khim.nauk no.6:958-964 Je '61.

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR. (Titanium oxide) (Zirconium oxide) (Cerium oxide)

建设在一种企业的 是是是一种企业的,但是是一种企业的企业的,但是不是不是一个企业的,但是是一种企业的,但是是一种企业的,但是不是一个一个工作。	
MAKAROV, S.Z.; LADEYNOVA, L.V.	
Zirconium perektie compounds as the products of interaction between hydroxides and hydrogen peroxide. Izv. AN SSSR. (MIRA 14:7) Otd.khim.nauk no.7:1169-1175 J1 '61. (MIRA 14:7) 1. Institut obshchey i neorganicheskoy khimii im. N.S.	
Kurnakova Akademii nauk SSSR. (Zirconium oxide) (Zirconium hydroxide) (Hydrogen peroxide)	
1,	

MAKAROV, S.Z.; LADEYNOVA, L.V.

Peroxide compounds of cerium. Izv. AN SSSR. Otd.khim.nauk no.7: 1176-1182 Jl '61. (MIRA 14:7)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. (Cerium oxide)

29515 s/062/61/000/011/002/012 B119/B138

5-2300

. 3

Makarov, S. Z. (Deceased), Ladeynova-Soboleva, L. V., and

AUTHORS:

Physicochemical study of the reactions occurring on interaction Chernyshova, A. M.

between lanthanum hydroxide and hydrogen peroxide TITLE:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 11, 1961, 1933-1940 PERIODICAL:

TEXT: In a number of experiments, La(OH) was made to react with H2O2, the concentration of which was varied between 0 and 97%. Experiments were

made at 0 and -20°C. The two reaction components were mixed in an aqueous medium at the experimental temperature chosen, until the chemical composition of both the liquid and solid phase remained constant. Both composition of both the riquid and solid phase lowering the oxalate and phases were analyzed for La203

weighing of the $\text{La}_2^{0}_3$ obtained by calcining) and 1/2 $^{0}_2$ (manganometrically).

Card 1/3

CIA-RDP86-00513R000928410020-5" APPROVED FOR RELEASE: 06/19/2000

29515 S/062/61/000/011/002/012 B119/B138

Physicochemical study of the reactions ... B119/B138

At 0°C, belowa concentration of 0.72% H₂0₂ the solid phase consists of La(OH)₃. Between 7.98 and 83% H₂0₂, the compound La₂0₄·2 H₂0 was found.

At -20°C, the compound La₂0₄·H₂0 was found in the H₂0₂-concentration range between 31.52 and 81.51% in the liquid phase. Both substances were separated from the mixture for differential thermal analysis which was carried out on a Kurnakov-type recording pyrometer. The substances show an exothermic effect between 27 and 45°C and 25 and 70°C, and an endothermic effect between 105 and 125°C and between 98 and 110°C. The beginning of the exothermic effect corresponds to the oxygen separation which continues to ~200°. The oxygen separation proceeds in 2 stages: (1) Decomposition of the adsorbed H₂0₂ (beginning at~25°C); (2) decomposition of the hydroperoxide compound of lanthanum (beginning at ~85°C). Anhydrous lanthanum peroxide compounds could not be obtained. For the compounds obtained, the following formulas are suggested: For

Card 2/3

29516 s/062/61/000/011/003/012 B119/B138

5.2300

Makarov, S. Z. (Deceased) and Ladeynova-Soboleva, L. V.

AUTHORS:

Physicochemical study of the reaction occurring on interaction

TITLE:

between neodymium hydroxide and hydrogen peroxide

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

PERIODICAL:

nauk, no. 11, 1961, 1940-1946

TEXT: Nd(OH) 3 suspended in water was made to react with H202 of varying concentrations at 0 and -20°C. Equilibrium was established between the chemical compositions of the liquid and solid phases after 1.5 to 2 hr. Both phases were chemically analyzed (active oxygen content was determined manganometrically, Nd203 content by precipitating with oxalic acid and weighing the Nd₂O₃ obtained by calcining the oxalate). At O^oC, in the H₂O₂-concentration range from 1.53 to 35.6%, two solid phases were found. The one consisted of Nd(OH)3, the other of Nd2O5.2 H2O. At 36% or more

Card 1 4

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928410020-5"

29516

Physicochemical study of the reaction ... B119/B138

H O in the 14 ...

H₂O₂ in the liquid phase, the latter compound was observed to decompose. At -20°C in the H₂O₂-concentration range between 24.88 and 37.42%, the compound Nd₂O₄°2 H₂O was found. At these experimental temperatures(O and -20°C), the solubility of Nd(OH)₃ increases up to as much as 50 times with H₂O₂ content increasing between 20 and 30%. Solubility of Nd(OH)₃ in H₂O at 0°C is 0.004%. The solid phases with compositions Nd₂O₅°2 H₂O and Nd₂O₄°2 H₂O, respectively, were isolated for differential thermal analysis using a Kurnakov-type recording pyrometer. The compound Nd₂O₅°2 H₂O shows an endothermic effect at O°C, and between 90 and 112°C. The first corresponds to melting in the presence of the excess liquid phase, and the second dehydration. It is suggested that the exothermic separation of oxygen is suppressed by dehydration. Nd₂O₄°2 H₂O shows an exothermic effect between 25 and 60°C, an endothermic one between 93 and 105°C. For both compounds, oxygen separation proceeds in two

29516

\$\frac{5}{65}/662/61/000/011/003/012}\$

Physicochemical study of the reaction ... B119/B138

Stages: (1) Decomposition of adsorbed H202 from 60 to 75°C; (2) decomposition of the peroxide compound of needymium from ~85 to 90°C. At 200°C. tion of the peroxide compound to the compound Nd(OH)3. The two peroxide the compounds could not be obtained in a completely anhydrous state. The compounds formulas are suggested:

HO

For Nd204.2 H20 ... Nd-0-Nd and for Nd205.2 H20 ...

HO

OH

Nd-0-Nd ... There are 7 figures, 6 tables, and 5 references; 1

HO

OH

Soviet and 4 non-Soviet. The two references to English-language publications read as follows: B. Brauner, Proc. Chem. Soc. 14, 72 (1889); B. Brauner, Proc. Chem. Soc. 17, 66 (1901).

29516 Physicochemical study of the reaction 5/062/61/000/011/00:012 · B119/B138

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of

SUBMITTED: May 4, 1961

Card 4/4

MAKAROV, S.Z. [deceased]; LADEYNOVA, L.V.

Determination of active oxygen in peroxide compounds of cerium. Zhur.anal.khim. 17 no.6:743-747 S 162. (MIRA 16:1)

1. Institute obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR, Moskva.

(Oxygen-Mnalysis) (Cerium oxide)

TKACHUK, V.G., doktor geologo-mineralog. nauk; TOLSTIKHIN, N.I., prof.;

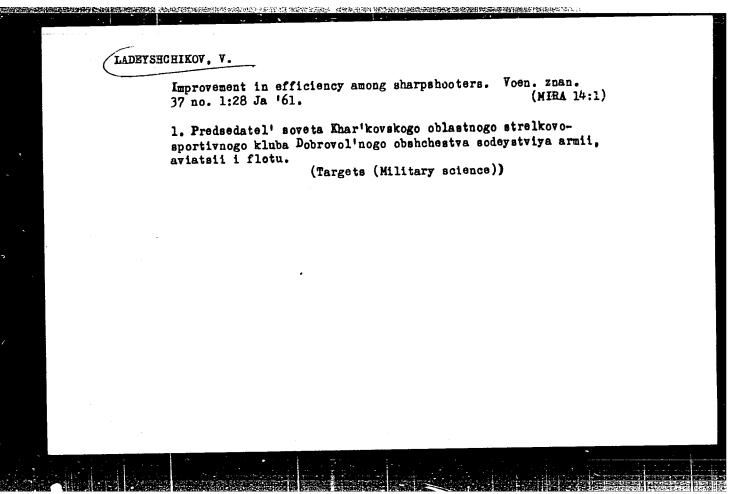
PINNEKER, Ye.V., kand. geologo-mineralog. nauk, mladshiy nauchnyy
sotr.; YASNITSKAYA, N.V., mladshiy nauchnyy sotr., khimik; ERUTIKOVA, A.I., mladshiy nauchnyy sotr., khimik; SHOTSKIY, V.P., kand.
geogr. nauk; ORLOVA, L.M., starshiy gidrogeolog; STEPANOV, V.M.,
kand. geologo-mineralog. nauk; VLASOV, N.A., kand. khim. nauk; PROKOP'YEV, B.V., kand. khim. nauk; CHERNYSHEV, L.A., starshiy prepodavatel'; PAVLOVA, L.I., starshiy prepodavatel'; Prinimali uchastiye:
IVANOV, V.V., kand. geologo-mineralog. nauk; YAROTSKIY, L.A., kand.
geologo-mineralog. nauk; KARASEVA, A.P., nauchnyy sotr.; ARUTYUNYANTS,
R.R., nauchnyy sotr.; ROMANOVA, E.M., nauchnyy sotr.; TROFIMUK, P.I.,
starshiy gidrogeolog; LADEYSHCHIKOV, P.I., starshiy nauchnyy sotr.,
kand. geogr. nauk; IYSAK, S.V., starshiy laborant; KRUCHININA, L.Yu.,
laborant; SEMENOVA, Ye.A., red. izd-va; BOCHEVER, V.T., tekhn. red.

[Mineral waters of the southern part of Eastern Siberia] Mineral'nye vody iuzhnoi chasti Vostochnoi Sibiri. Moskva. Vol.1. [Hydrogeology of mineral waters and their significance for the national economy] Gidrogeologiia mineral'nykh vod i ikh narodnokhoziaistvennoe znarhenie. Pod obshchei red. V.G.Tkachuk i N.I.Tolstikhina. 1961. 346 p. (MIRA 14:8)

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2. Vostochno-Sibirskiy geologicheskiy institut (for Tkachuk, Pinneker, Yasnitskaya, Krutikova, Iysak). 3. Institut geografii Sibirskogo otdeleniya Akademii nauk SSSR (for Shotskiy). 4. Chitinskoye geologicheskoye upravleniye (for Orlova). 5. Sosnovskaya ekspeditsiya Ministerstva geologii i okhrany nedr SSSR (for Stepanov). 6. Irkutskiy gosudarstvennyy universitet (for Vlasov, Prokop'yev, Chernyshev, Pavelova). 7. Leningradskiy gornyy institut (Tolstikhin). 8. Gosudarstvennyy nauchno-issledovatel'skiy institut kurortologii i fizioterapii (for Ivanov, Yarotskiy, Karaseva, Arutyunyants, Romanova). 9. Irkutskoye geologicheskoye upravleniye (for Trofimuk). 10. Bayakal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo filiala AN SSSR (for Ladeyshchikov). 11. Otdel ekonomiki i geografii Vostochno-Sibirskogo filiala AN SSSR (for Kruchinina). (Siberia, Eastern-Mineral waters)



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The classification of baby chicks based on sexual organs.

p. 10 (Tobbtermeles. Vol. 9, no. 19, Nov. 1957, Budapest, Hungary)

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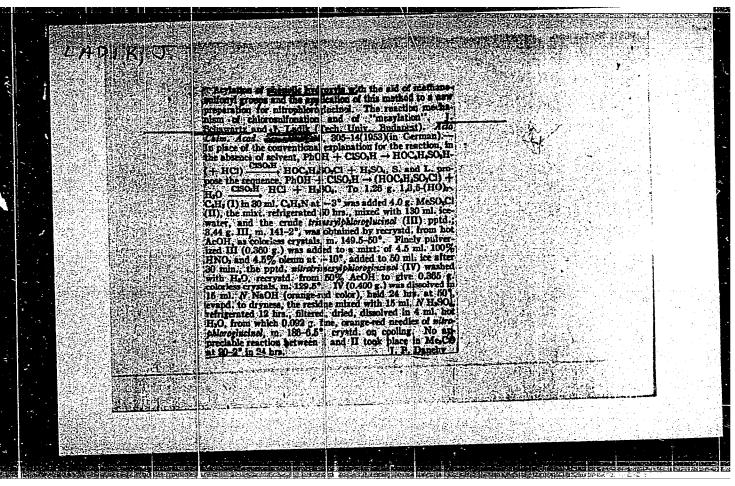
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Varsanyi, Gy. <u>Ladik. J.</u>
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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928410020-5



JANOS LADIK, Janon

Hungary/Atomic and Molecular Physics - Physics of the Molecule, D-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34293

Author: Ladik Janos, Czukas Andrasne

Institution: None

Title: Magnetic Interation in the H2 Molecule, Due to the Motion of 2 Electrons

Original Periodical: A mayar tud. akad. Alkalm. mat. int. kozl., 1954 (1955), 3, No 3-4, 425-441; Hungarian; Russian and English resumes

Abstract: The authors give in the first part of their article a simple computational method for taking into account in wave mechanics the magnetic interaction, occurring when 2 electrons are moving. Next, the authors, using the approximate eigenfunctions of wang (wang, S. C., Physical Review, 1928, 31, 579-586) calculated the energy of the magnetic interaction P_m in the case of the H_2 molecule ($T_m = 8.24 \times 10^{-4}$ eV). This is approximately the same magnitude as the error in the spectroscopic determination of the binding energy of H_2 . Kellog and others (Kellog, J. 8., et. al., 1940, 57, 677-695) have measured approximately, with the aid of the method of magnetic resonance of molecular beams, the magnetic nuclear spin-nuclear spin interaction in the H_2 molecule. Assuming that the energy of the magnetic

1 of 2

- 1 -

Hungary/Atomic and Mclecular Physics - Physics of the Molecule, D-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34293

Author: Ladik Janos, Czukas Andrasne

Institution: None

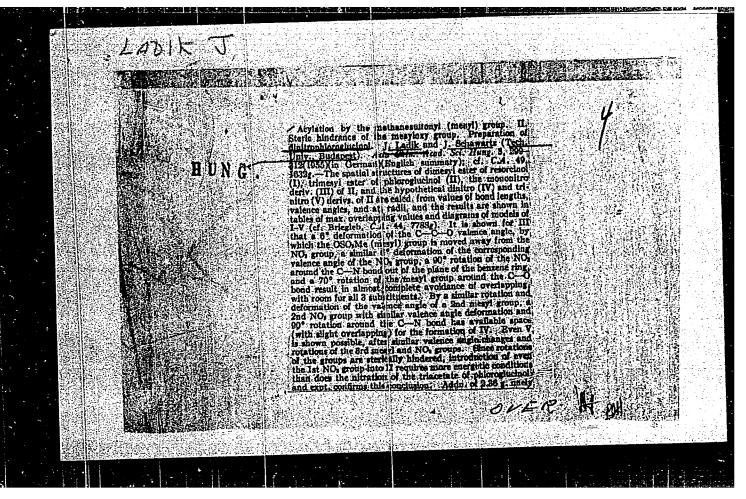
Title: Magnetic Interaction in the H2 Molecule, Due to the Motion of 2 Electrons

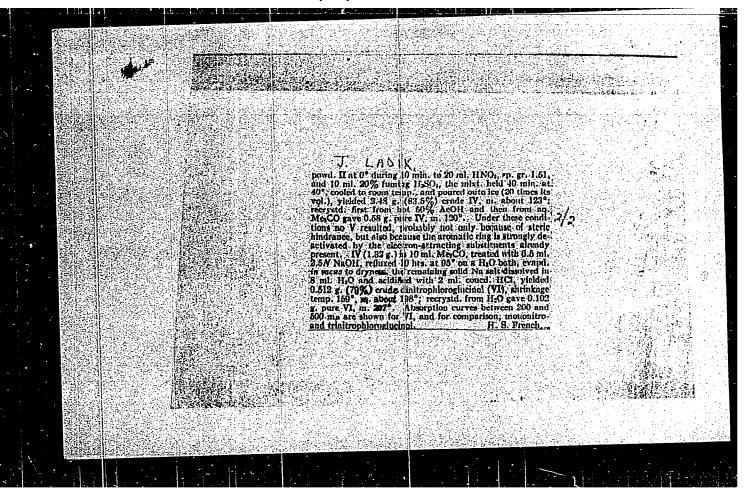
Original Periodical: A mayar tud. akad. Alkalm. mat. int. kozl., 1954 (1955), 3, No 3-4, 425-441; Hungarian; Russian and English resumes

Abstract: electron spin-electron spin interaction in the $\rm H_2$ molecule is 1847^2 times greater than the latter and that the energy of the magnetic interaction, occurring during the motion of the electrons, is equal to the energy of the magnetic electron spin-electron spin interaction, a value of 3.11 x 10^{-4} ev was obtained for $\rm T_m$, i.e., a value of the same order of magnitude as that obtained above.

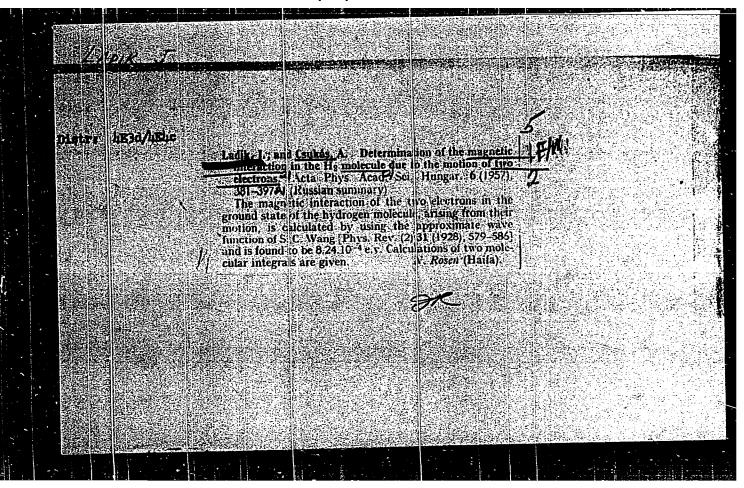
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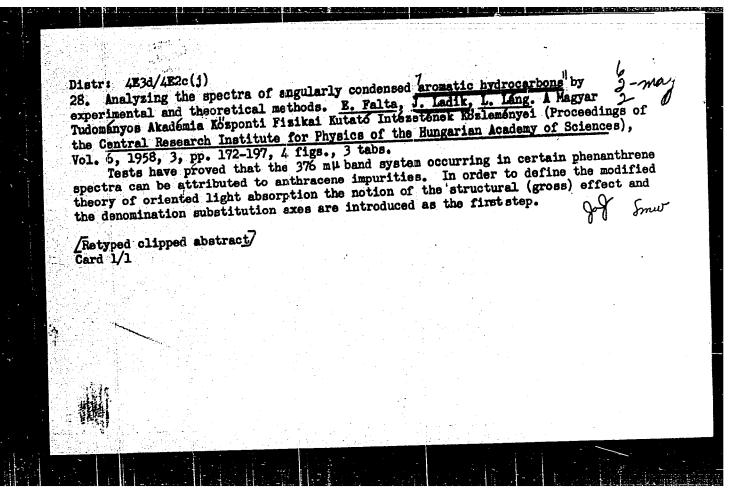
- 2 -

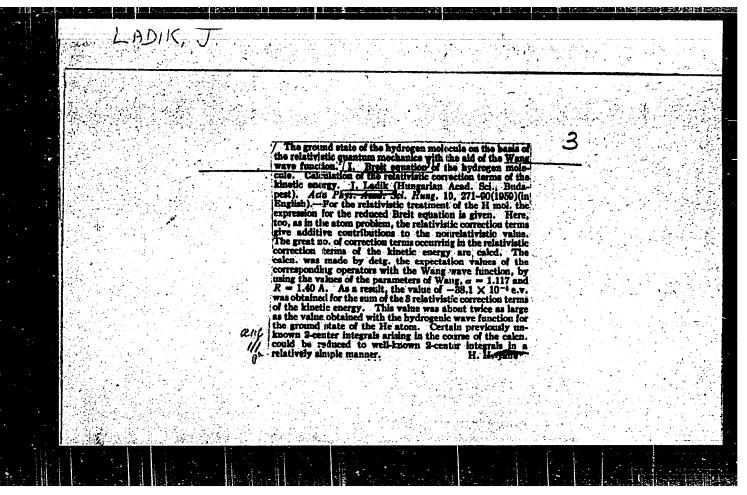




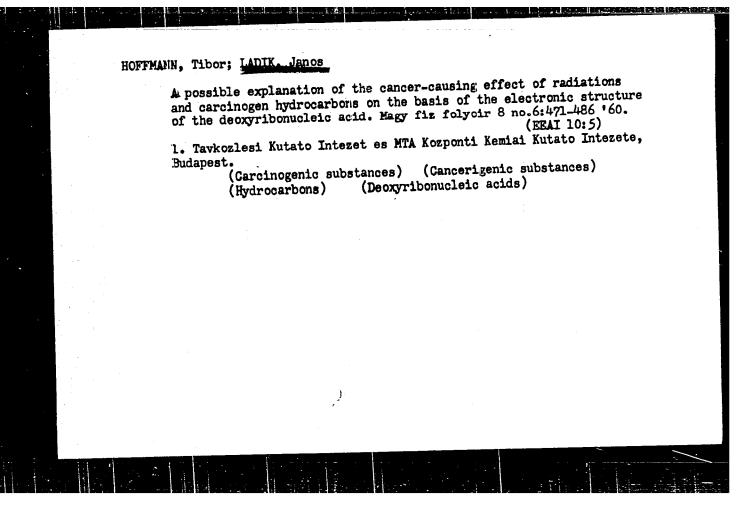
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Gerhard Herzberg's Malecular Spectra and Molecular Structure. Vol. 2. Infrared and Raman Spectrum of Molecules with Several Atoms; a book review. Magy fiz folyoir 8 no.2:161-163 '60. (EEAI 9:10) (Herzberg, Gerhard) (Spectrum analysis) (Raman effect) (Spectrum, Infrared)



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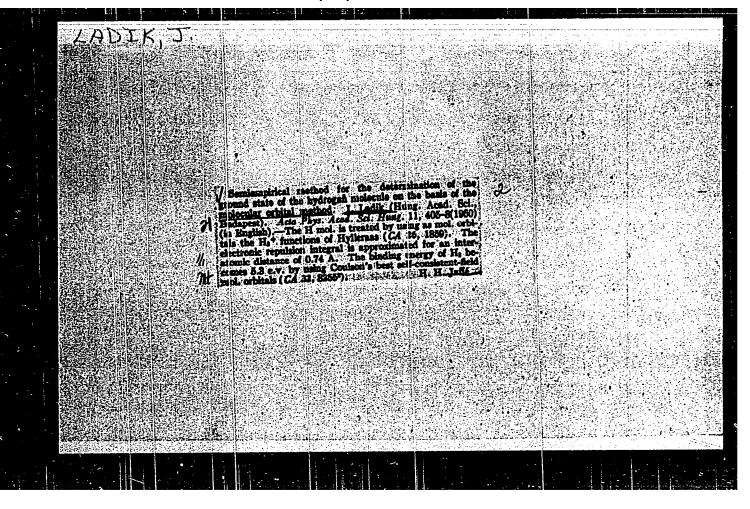
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(Electrons)

(Deoxyribonucleic acids) (Nucleotides)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928410020-5



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The ground state of the hydrogen molecule on the basis of the relativistic quantum mechanics with the aid of the Wang wave function. II. Method for evaluation of the two-centre integrals occurring in the calculation of the retarded magnetic orbit-orbit interaction term. Mat kut kezl MTA 6 no.1/2:77-88 161.

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(Eydrogen) (Molecules) (Integrals) (Quantum theory)

LADIK, J. (Budapest)

The ground state of the hydrogen molecule on the basis of relativistic quantum mechanics with the aid of the Wang wave function. II. The relativistic correction energy terms. Acta phys Hung 13 no.2:123-137 161.

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LADIK, Janos

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1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

An account of my study trip to Czechoslovakia. Kem tud kozl MTA 19 no.4:477-478 '63. 1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezet, Ebdapest.

IADIK, Janos (Budapest, II., Pusztaszeri ut 57/69); MESSIER, Andras, dr. (Budapest, II., Pusztaszeri ut 57/69); REDLY, Judit (Miss) (Budapest, II., Pusztaszeri ut 57/69)

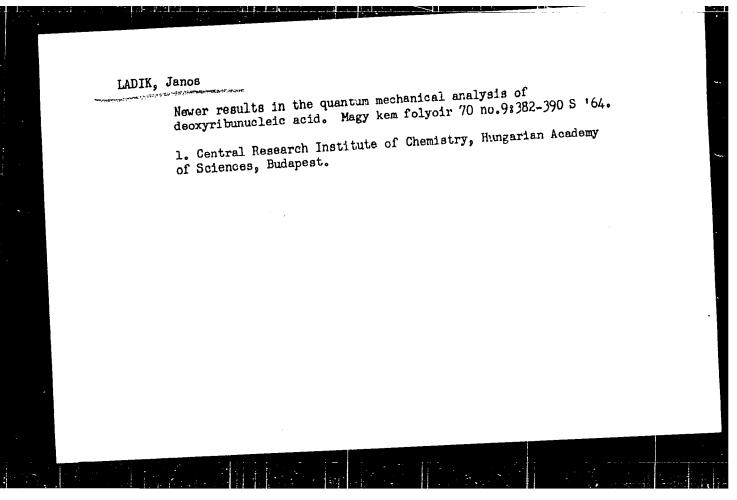
Research on the electronic structure of 1-benzene-azo-N-phenyl-2-naphthylamine chelate. Pt.1.Acta chimica Hung 38 no.4:393-403 163.

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Calculating the atomic localization energy of polycondensed hydrocarbons. Magy kem folyoir 70 no. 1: 17-19 Ja 164.

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ACC NR. AT6025195 AUTHOR: Biczo, Geza-Bitso, G. (Doctor); Ladik, Janos-Ladik, Y. (Doctor); Messner, Andras (Doctor) ORG: Central Research Institute for Chemistry, Hungarian Academy of Sciences, Eddapest TITLE: Investigation of the electronic structure of 1-benzone-azo-N-phonyl-2- TITLE: Investigation of the electronic structure of 1-benzone-azo-N-phonyl-2- TOPIC TAGS: chelate compound, organic azo compound, chemical bonding TOPIC TAGS: chelate compound, organic azo compound, chemical bonding ABSTRACT: Part 1 was published Ibid., v. 38, 1963, p. 393. The potential function of the N-N-N hydrogen bond in the title compound and of the O-HN hydrogen bond in the N-HN hydrogen bond in the Values obtained were presented and dis- 1-bonzone-azo-2-naphthol was determined for various N-H and N-O distances. The chelate system was found to be homogeneous. The values obtained were presented and dis- 1-bonzone-azo-2-naphthol was determined for performing the numerical calculations, oursed. The authors thank Miss A. Jeszenak for performing the numerical calculations, Orig. art. has: h figures, 10 formulas, and 2 tables. Orig. art. in Eng. JIPRS: 3h,1657 SUB CODE: 07 / SUEM DATE: 04Feb65 / ORIG REF: 002 / OTH REF: 005	. ļ.	t. 31716-66 EWP(j) RM SOURCE CODE: HU/2502/65/046/003/0195/0203
AUTHOR: Biczo, Goza-Bitso, G. (Doctor); Ladik, Janos-Ladik, Y. (Doctor); Issuer, Andras (Doctor) Andras (Doctor) ORG: Central Research Institute for Chemistry, Hungarian Academy of Sciences, Endapost TITLE: Investigation of the electronic structure of 1-benzone-azo-N-phonyl-2- TITLE: Investigation of the electronic structure of 1-benzone-azo-N-phonyl-2- TOPIC TAGS: Academia scientiarum hungaricae. Acta chemica, v. 46, no. 3, 1965, 195-203 SOURCE: Academia scientiarum hungaricae. Acta chemica, v. 46, no. 3, 1965, 195-203 TOPIC TAGS: chelate compound, organic azo compound, chemical bonding TOPIC TAGS: chelate compound, organic azo compound, chemical bonding ABSTRACT: Part 1 was published Ibid., v. 38, 1963, p. 393. The potential function of the N-HN hydrogen bond in the title compound and of the 0-HN hydrogen bond in the title compound and of the 0-HN hydrogen bond in the title compound and of the 0-HN hydrogen bond in the behanded for various N-H and N-O distances. The chelate system was found to be homogeneous. The values obtained were presented and distants outside. The authors thank Miss A. Jeszenak for performing the numerical calculations. Orig. art. has: 4 figures, 10 formulas, and 2 tables. Orig. art. in Eng. JIPRS: 34,1657 SUB CODE: 07 / SURM DATE: 04Feb65 / ORIG REF: 002 / OTH REF: 005		1, 31,716-66 EMP(j) RM SOURCE CODE: HU/2502/65/040/669/
ORG: Central Research Institute for Chemistry, Hungarian Academy of Screen Org. of the electronic structure of 1-benzone-azo-N-phenyl-2- TITLE: Investigation of the electronic structure of 1-benzone-azo-N-phenyl-2- SOURCE: Academia scientiarum hungaricae. Acta chemica, v. 46, no. 3, 1965, 195-203 TOPIC TAGS: chelate compound, organic azo compound, chemical bonding TOPIC TAGS: chelate compound, organic azo compound, chemical bonding ABSTRACT: Part 1 was published Ibid., v. 38, 1963, p. 393. The potential function of the N-HN hydrogen bond in the title compound and of the O-HN hydrogen bond in the N-HN hydrogen bond in the N-HN hydrogen bond in the N-HN hydrogen bond in the values obtained were presented and displaced as system was found to be homogeneous. The values obtained were presented and displaced as system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained were presented and displaced as the system was found to be homogeneous. The values obtained have been supplied to the system was found to be homogeneous. The values obtained have been supplied to the system was supplied to the system was supplied to the system was supplied to	ſ	ACC NR: AT6025195
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LADIK, Janos; BICZO, Geza

Energy band calculations for periodic DNA models on the basis of the Huckel approximation. Magy kem folyoir 71 no.1:31-39 Ja '65.

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Somi-empir' al theories of molecular crystals. Pt.1,2, Magy kem folyoir 71 no.2:71-81 F '65.

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L 37777-66 SOURCE CODE: HU/0016/65/000/009/0274/0278 ACC NR: AP6028836 40 AUTHOR: Ladik, Janos B ORG: Central Research Institute for Chemistry, MTA (MTA Kozponti Kemiai Kutato Intezete) TITIE: Coding of protein synthesis SOURCE: Fizikai szemle, no. 9, 1965, 274-278 TOPIC TAGS: protein, cybernetics, biochemistry, organic synthetic process ABSTRACT: A review was made of the techniques involved in and results achieved in the coding of protein synthesis. The article is the text of the author's lecture presented at the meeting on cybernetics held in conjunction with the 1965 General Session of the Hungarian Academy of Sciences. Orig. art. has: 3 figures, 6 formulas and 3 tables. [JPRS: 34,161] SUB CODE: 06, 07 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 014

L 39546-66 GD/RM ACC NR: AP6008594

SOURCE CODE: HU/0005/65/071/001/0031/0039

AUTHOR: Ladik, Janos; Biczo, Gasa

ORG: Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest (Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete)

TITLE: Energy band calculations for periodic DNA models in the Huckel approximation

SOURCE: Magyar kemiai folyoirat, v. 71, no. 1, 1965, 31-39

TOPIC TAGS: DNA, energy band structure

ABSTRACT: The energy band structures of different periodic models of DNA were calculated by means of the Huckel approximation. The characteristic features of the results were compared with those previously obtained for homopray ucleotids and for the most simple heteropolynucleotids. The widths of the energy bands make possible a small conduction in DNA. For the forbidden band width between the highest filled band and the lowest non-filled singlet band the value of 3.46 eV. was obtained in the case of the most somplicated model systems, which do not differ significantly from real DNA. The authors thank Prof. P. O. Lowdin and Prof. B. Pullman for many valuable exchanges and the suitable power guarantee. Further

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Biochemistry

HUNCARY

LADIK, Janos: Hungarian Academy of Sciences, Central Research Institute of Chemistry (Magyar Tudomanyos Akademia, Kozponti Kemiai Kutato Intezet), Budapest.

"The Coding of Protein Synthesis."

Budapest, A Magyar Tudomanyos Akademia Biologiai Tudomanyok Osztalyanak Kozlemenyei, Vol VIII, No 2, 1965, pages 165-172.

Abstract: The article is a summary report on the problem of coding of the RNA-to-protein molecule step. Ochoa, Nierenberg and other authorities are quoted. The problem can also be formulated on the basis of an analogy with John Neumann's theory concerning self-reproducing automata and automata which construct more involved ones than themselves. This is discussed briefly. 2 Hungarian, 14 Western references.

£ 43961-66 EWI(1)/EWP(4 IJP(c) JD/HW/AT/RIA ACC NR: AP6032108 SOURCE CODE: HU/0005/66/000/001/0022/0026 AUTHOR: Ladik, Janos; Biczo, Geza CRG: Central Chemical Research Institute, MTA, Budapest (MTA Kozponti Kemiai Kutato Intezete) TITLE: Study of the electron structure of solids having catalytic action. of the energy band structure of infinite nickel crystals I. Change SOURCE: Magyar kemiai folyoirat, no. 1, 1966, 22-26 TOPIC TAGS: electron structure, energy band structure ABSTRACT: Using the tight binding approximation in its interpolation form, suggested by Slater and Koster, the energy bands of Ni in the whole first Brillouin zone were calculated at 00K and 13730K. In the latter case the effect of the extension of the crystal by the increase in temperature was taken into consideration, but the interaction of the electrons with the phonons was neglected. The energy integrals at 1373°K were estimated from the appropriate energy integrals at 0°K and from the overlap integrals at 0°K and at 1373°K. respectively. According to the results, the widths of the 4s and of the common 3d band decrease considerably with an increase in temperature. Therefore in any theoretical interpretation of the catalytic properties of the transition metals it is necessary to start with the band structures computed for the temperature of the catalytic reaction. Orig. art. has: 4 tables and 9 formulas. JPRS: 34,805/ SUB CODE: SUBM DATE: 31May65 / OTH REF: 011 0919

I 46854-66 ACC NR: AE 6034717 SOURCE CODE: 23 HU/0005/65/071/009/0388/0392 13 AUTHOR: Biczo, Geza, Ladik, Janos, Messmer, Andras; Hungarian Academy of Sciences, Central Research Institute of Chemistry (Magyar Tudomanyos Akademia, Kozponti Kemiai Kutato Intezet), Budapest. TITLE: A Study of the electronic structure of 1-benzene-azo-n-phenyl-2-naphthyl-amine chelate II. Approximate calculation of the potential function of the n-h ... n hydrogen bond \ SOURCE: Magyar kemiai folyoirat, v. 71, no. 9, 1965, 388-392 TOPIC TAGS: hydrogen bonding, organic azo compound, chelate compound The potential functions ABSTRACT: of the N-H...N hydrogen bond of 1-benzene-azo-N-phenyl-2-naphthylamine and of the O-H ... N hydrogen bond of 1-benzene-azo-2-naphthol have been calculated by using the semiempirical method of Lippincott and Schroeder. The calculations were carried out for different N-N and O-N distances. According to the results, in the chelate system containing the N-H...N hydrogen bond, the potential function has only one single minimum if the N-N distance is smaller than 2.76 R. Since such a large N-N distance seems to be improbable, this result is in agreement with the previous experimental results which indicate that this system is homogeneous. The results obtained for the second system indicate that a potential with double minima can be expected only if the O-H distance is greater than 2.78 R.

he author irt. has:	s thank <u>Jeszanak</u> 4 figures, 10 f	Adrienne for ormulas and 2	carrying o	ut the calcular [Based of the calcular calculations of the calcula	ations. Orig. on authors Eng	abst.7
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L 47239-66 EWP(1)/TACC NR: AP6034303 SOURCE CODE: HU/0005/66/000/006/0239/0243 26 AUTHOR: Tudos, Ferenc; Ladik, Janos; Turcsanyi, Bela ${\cal B}$ CRG: Central Research Institute of Chemistry, Hungarian Academy of Sciences, Eudapest (Magyar Tudomanyos Akademia, Kozponti Kemiai Kutato Intezet) TITIE: Kinetics of free radical polymerization XVII. Effect of charge transfer complexes on certain elemental processes of free radical polymerization SOURCE: Magyar kemiai folyoirat, no. 6, 1966, 239-243 TOPIC TAGS: radical polymerization, polymerization kinetics, copolymerization ABSTRACT: [Authors' English summary modified] Molecular compounds (charge transfer complexes) which are formed in some cases of radical polymerization have a considerable influence on the kinetics of the process. A theoretical study was made of the factors which determine the kinetic parameters of the reactions of radicals with other compounds which have a closed shell T electron system. Special attention was paid to the effect of the formation of molecular compounds. It was found that the increase in reactivity which is observed generally may be attributed to an increase in the resonance energy of the transition state. This can be used as a basis for the interpretation of some anomalous effects of inhibited polymerization and co-polymerization in a satisfactory manner. Orig. art. has: 3 figures and 17 formulas. [JPRS: 36,862] CODE: 07 SUBM DATE: 19Jun65 / ORIG REF: OO6 / SOV REF: OO1

EMP(j)/EMP(t)/ETI L 00707-67 SOURCE CODE: HU/2502/66/047/003/0263/0271 ACC NR AT6035470 AUTHOR: Ladik, Janos-Ladik, Ya. (Doctor; Budapest); Biczo, Geza-Bitso, G. (Budapest) ORG: Central Research Institute for Chemistry, Hungarian Academy of Sciences, Bucapest TITIE: Investigation of the electronic structure of catalytically active solids SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 47, no. 3, 1966, 263-271 TOPIC TAGS: solid state, energy band structure, nickel, electron energy level, catalysis, temperature dependence
ABSTRACT: The purpose of this paper is to calculate the energy band structure of an infinite nickel rystal at 0°K and at 1373°K., to investigate the effect of temperature increase on the band structure. For the calculations of the energy band structure, the tight binding approximation was used, taking into account the 4s and the five 3rd states of nickel. The widths of the 4s band and of the common 3rd band decreased significantly with increase in temperature. The importance of the findings obtained in this study for catalytic mechanisms was discussed. The authors thank Academician Dr. G. Schay and Dr. F. Nagy, Corresponding Member of the Hungarian Academy of Sciences, for calling their attention to the problem, and for their inspiring interest during this work. They also thank Mr. F. Beleznay for many stimulating discussions and for calling their attention to important data in the literature, Miss J. Redly for solving the matrix eigenvalue problems on the Ural II computer of the State Institute of Statistics, and Miss A. Jeszenak for performing the tedious desk calculations. Orig. art. has: 9 formulas and 4 tables. [Orig. art. in Eng.] [JPRS: 36,464] SUB CODE: 07, 20 / SUBM DATE: 31May65 / OTH REF: 016

OKSEN', I.; LADIKOV, A.

Success rests with the specialists. Muk.-elev.prom.26 no.5:3-6 My 160. (MIRA 14:3)

l. Ministerstvo khleboproduktov Ukrainskoy SSR.
(Grain elevators)
(Grain milling)

IADIKOV, A.

Grain procurement stations of the Ukraine are getting ready for the forthcoming plenum of the Central Committee of the Communist Party of the Soviet Union. Muk.-elev. prom. 25 no.10:7-8 0 159.

(MIRA 13:3)

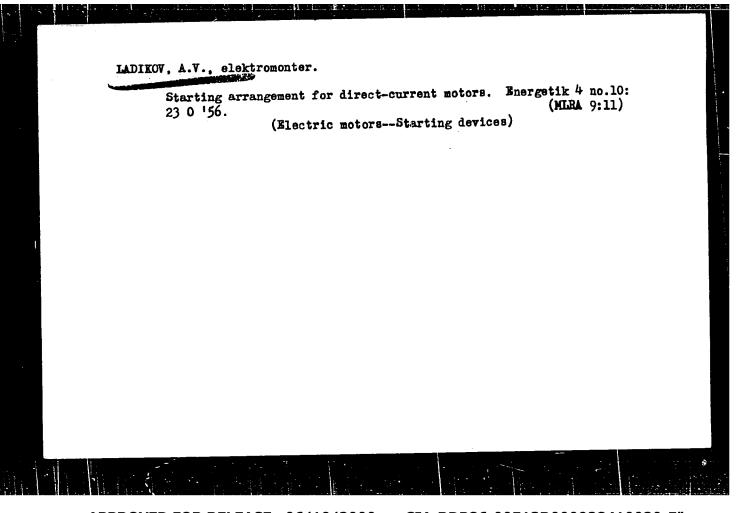
1. Ministerstvo khleboproduktov Ukrainskoy SSR. (Ukraine--Grain elevators)

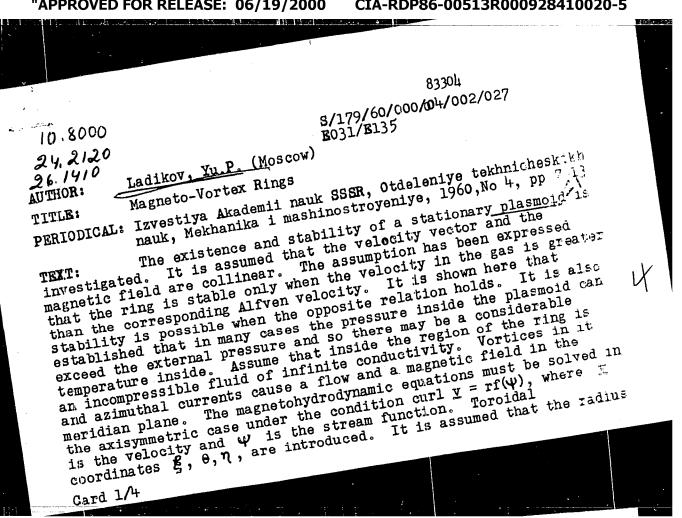
BUGRAYEV, A.; LADIKOV, A.; ZABOLOTSKIY, K.; FILIPPOV, G., kand. akonomicheskikh nauk

"Problems concerning the economy of grain receiving enterprises" by A.A. Borinevich. Reviewed by A. Bugraev and others. Mak.-elev. prom. 28 no.6:30-32 Je *62. (MIRA 15:7)

1. Moskovskoye oblastnoye upravleniye khleboproduktov (for Bugrayev).
2. Kiyevskoye upravleniye khleboproduktov (for Ladikov). 3. Rostovskoye upravleniye khleboproduktov (for Zabolotskiy). 4. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti (for Filippov).

(Grain elevators) (Borinevich, A.A.)





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of a section of the ring is much less than the radius of the ring. Of a secution of the equation curl $y = rf(\psi)$ with the condition Magneto-Vortex Rings $\psi = \text{const.}$ on the surface of the ring and $f(\psi) = \text{constant}$ is quoted. The cross section of the ring is not assumed to be a perfect circle. From Hicks' expression for the stream function, the velocity components and the magnetic field components are determined (the latter from the condition of collinearity). total pressure on the surface of the ring is obtained by integrating the magnetohydrodynamics equations and using the results already obtained. The problem is now considered of the flow round the ring, the velocity at infinity and the circulation on the ring being known. In the region external to the ring there is also a magnetic field caused by the ring current, but it is unrelated to the motion of the medium and is determined independently of it. solution of this problem is quoted and the velocity and field components determined as before. The total pressure on the ring is quoted. It is deduced that if the magnetic energy exceeds the kinetic energy, a greater pressure, and consequently higher Card 2/4

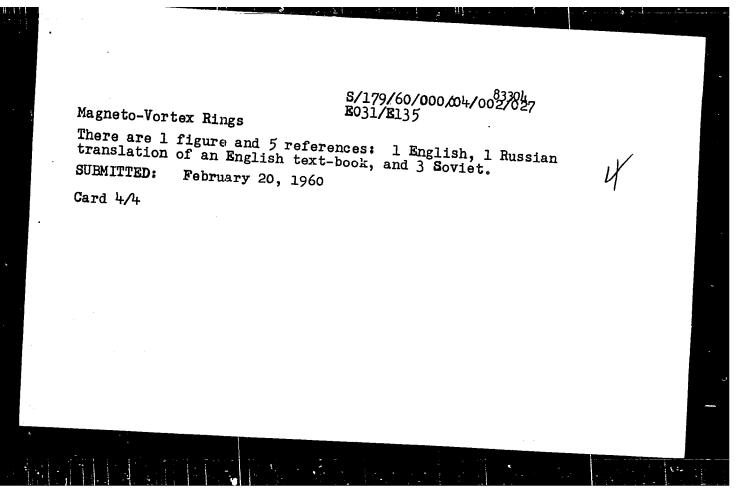
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The analysis shows that Magneto-Vortex Rings a change in the defining parameters which leaves the form of the ring unchanged leads only to a change in the velocity of the incident flow and does not cause instability. Hence the stability of the plasmoid is studied under the condition that its surface is disturbed. It is assumed that the disturbance is of the second order of smallness in comparison with 1c/a, where c is the radius of a section of the ring and a is the radius of the ring. The equations are given which, after linearisation, the perturbation values of the velocity, field and pressure must satisfy both inside and outside the ring. Explicit forms for these satisfy both inside and outside the ring. quantities are assumed and non-dimensional coordinates introduced. The equations lead to Bessel's equation for V2 = Ve/u, is the value of the velocity on the surface of the ring. other unknowns are determined in terms of v2 and its derivatives. By comparing the expressions for the total pressure on both sides of the ring we obtain an equation such that if its roots do not have a positive real part, the motion is stable. Various possible limiting conditions and assumptions are considered.

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9,3150 (1049, 1141, 1532)

S/040/60/02 ⁷005/011/028

AUTHOR: Ladikov, Yu.P. (Moscow)

TITLE: Some Problems of the Dynamics of Magnetic Vortex Configurations PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol.24, No.5, TEXT:

The author establishes the motion equations of a system of coaxial magnetic vortex rings. These rings are circular vortex filaments through which there flow currents. It is assumed that the fluid outside the rings is ideal: incompressible and not conductive. The plane analogue of the system of coaxial rings are pairs of rectilinear magnetic vortex filaments situated symmetrically to an axis, and having opposite circulations and currents. It is assumed that the motion of the magnetic vortex ring is qualitatively equal to the motion of the corresponding pair of rectilinear magnetic vortex filaments. The motion of such a pair is investogated in the direction of the conductive and the nonconductive wall. It is shown that in the first case the ring is enlarged for an approximation to the wall. In the second case, for certain parameter values it is possible that the ring is narrowed for an approximation to the wall, and if the wall has a split it may slide

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Some Problems of the Dynamics of Magnetic Vortex Configurations

throught it (similar phenomena were observed for ball lightnings). The author thanks his leader L.I.Sedov for advices. There are 6 figures and 5 references: 2 Soviet, 2 English and 1 German.

SUBMITTED: June 16, 1960

Card 2/2

LADIKOV-ROYEV, Yu. P. Cand Phys Math Sci -- "Certain problems of the dynamics of gas configurations taking into account magnetic effects." Mos, 1961

(Mos State Univ im M. V. Lomonosov). (KL, 4-61, 183)

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26.1410

Ladikov, Yu. P.

AUTHOR:

Various exact solutions of equations for unsteady motions

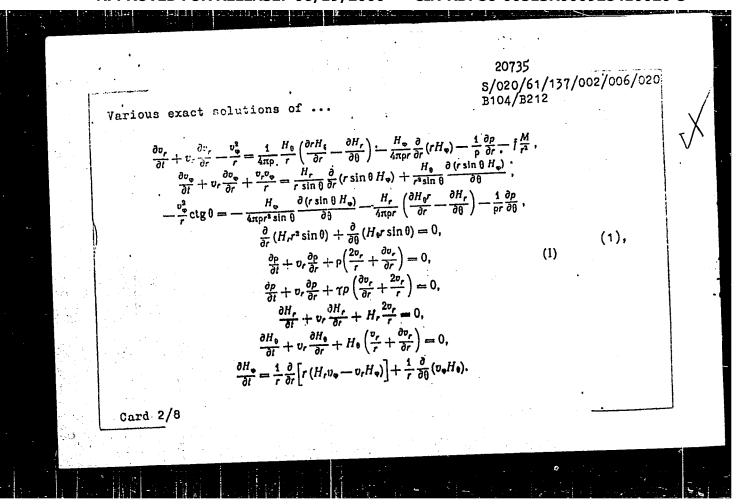
in magneto-hydrodynamics TITLE:

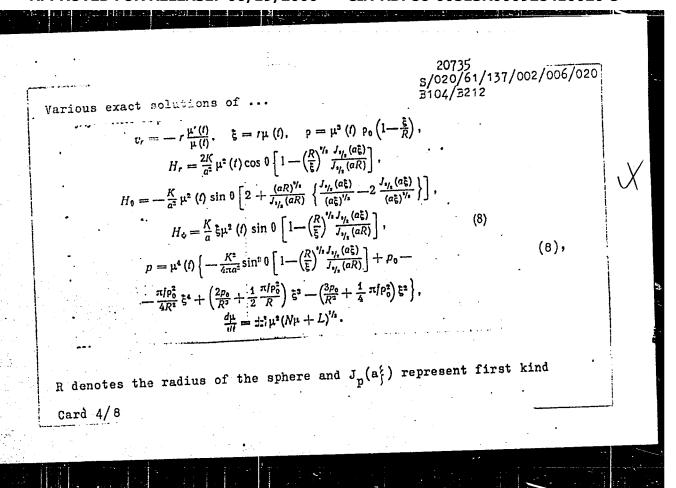
Doklady Akademii nauk SSSR, v. 137, no. 2, 1961, 305-306

PERIODICAL:

TEXT: The class of motions whose radial velocities are a linear function of the radius have been extended in this paper. At first the pulsation of a gravitating sphere having an infinite conductivity is investigated in a magnetic field. Similar investigations have been done previously (Ref. 1: L. I. Sedov, Metody podobiya i razmernosti v mekhaniki, 1957; Ref. 2: M. I. Lidov, DAN, 97, no. 3, (1954)) and, here, an axisymmetric magnetic field is studied with gas particles rotating around their axis of symmetry. The author starts from a hydrodynamic system of equations in spherical coordinates considering the axial symmetry and setting $v_i = 0$:

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Various exact solutions of

Bessel functions. Quantity "a" satisfies equation $J_{5/2}(aR) = 0$, the constants K, p_0 , p_0 and L have to be determined in a proper way. All gas particles perform a periodic pulsating motion for L < 0, and it is easily seen that pressure, density, and magnetic field vanish at the boundary $f_0 = R$. The pulsation of a rotating plasma cylinder is investigated in the second part of the paper. Here, the author uses the same assumptions and starts from the system

$$\frac{\partial v_r}{\partial t} + v_r \frac{\partial v_r}{\partial r} - \frac{v_\varphi^2}{r} = -\frac{1}{\rho} \frac{\dot{c}p}{\dot{d}r} - \frac{1}{8\pi\rho} \frac{\partial H_\varphi^2}{\partial r} \frac{1}{4\pi\rho} \frac{H_\varphi^3}{r} - \frac{1}{8\pi\rho} \frac{\partial H_z^3}{\partial r} - \frac{2fM}{r},$$

$$\frac{\partial v_\varphi^3}{\partial t} + v_r \frac{\partial v_\varphi^3}{\partial r} + \frac{2}{r} v_r v_\varphi^3 = 0,$$

$$\frac{\partial \rho}{\partial t} + v_r \frac{\partial \rho}{\partial r} + \rho \left(\frac{\partial v_r}{\partial r} + \frac{v_r}{r} \right) = 0,$$
(10),

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Various exact solutions of ...

$$\frac{\partial \rho}{\partial t} + v_r \frac{\partial \rho}{\partial r} + \gamma \rho \left(\frac{\partial v_r}{\partial r} + \frac{v_r}{r} \right) = 0,$$

$$\frac{\partial H_{\varphi}^2}{\partial t} + v_r \frac{\partial H_{\varphi}^2}{\partial r} + 2H_{\varphi}^2 \frac{\partial v_r}{\partial r} = 0,$$

$$\frac{\partial H_z^2}{\partial t} + v_r \frac{\partial H_z^2}{\partial r} + 2H_z^2 \left(\frac{\partial v_r}{\partial r} + \frac{v_r}{r} \right) = 0.$$

where f is the gravitation constant and $f_1(\xi)$ the initial density. The system has the following partial solutions:

$$v_{r} = r \frac{\zeta'(t)}{\zeta(t)}, \quad \rho = \zeta^{-2} \frac{\varphi'(\xi)}{\xi}, \quad \rho = \zeta^{-2\tau} F(\xi), \quad H_{\varphi}^{2} = \zeta^{-2\xi} F_{1}(\xi), \\ H_{z}^{2} = \zeta^{-4} F_{2}(\xi), \quad v_{\varphi}^{3} = \zeta^{-2\xi^{2}\Phi}(\xi). \tag{11}$$

where $\xi = r/\{(t)$ is a Lagrange coordinate, $\varphi(\xi)$ and $\tilde{\varphi}(\xi)$ are arbitrary functions, $F(\xi)$, $F_1(\xi)$, and $F_2(\xi)$ are connected with the functions $\varphi(\xi)$ and $\varphi(\xi)$ by the following relations:

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Various exact solutions of ...

$$F(\xi) = A\varphi(\xi) + N,$$

$$\frac{1}{8\pi} \frac{d}{d\xi} [\xi F_1(\xi)] + \frac{1}{4\pi} F_1(\xi) + \frac{4\pi f}{\xi^2} \varphi(\xi) \varphi'(\xi) = B\varphi'(\xi),$$

$$\frac{1}{8\pi} \frac{dF_2(\xi)}{d\xi} - \varphi'(\xi) \Phi(\xi) = D\varphi'(\xi);$$
(12).

{(t) satisfies the following differential equation:

$$\left(\frac{d\zeta}{dt}\right)^{2} = \frac{A}{\gamma - 1} \zeta^{-2(\gamma - 1)} - 2B \ln \zeta + D\zeta^{-2} + C = f(\zeta). \tag{13}$$

The solutions investigated are a function of $\{(\frac{1}{2})\}$ and $\{\frac{1}{2}\}$ for any γ , which characterize the initial density distribution and the angular velocity. For $\gamma=3$ the solution is dependent on the arbitrary functions. A. G. Kulikovskiy, I. M. Yavorskaya, and Ye. V. Ryazanov are mentioned. The author thanks L. I. Sedov for valuable suggestions.

Card 7/8

Various exact solutions of ...

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There are 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Boskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: September 1, 1960, by L. I. Sedov, Academician

SUBMITTED: August 27, 1960

Card 8/8

43321 8/040/62/026/006/006/015 D234/D308 -

10.2000 26.1410

AUTHOR: Ladikov, Yu.P. (Orsk)

TITLE: Properties of plane and axially symmetrical stationary

flows in magnetohydrodynamics

PERIODICAL: Prikladnaya matematika i mekhanika, v. 26, no. 6, 1962, 1087 - 1091

For plane flow of infinitely conducting ideal gas, the author defines

 $\rho v_x = -\frac{\partial \underline{\Psi}}{\partial y}, \quad \rho v_y = \frac{\partial \underline{\Psi}}{\partial x}, \quad H_x = -\frac{\partial x}{\partial y}, \quad H_y = \frac{\partial x}{\partial x}$

and takes Ψ and κ as independent variables. It is assumed that $v_{_{\rm Z}}$ = $H_z = 0$ and that all flow characteristics are independent of z. If (vH) is independent of Ψ and the gas is isentropic, the differential equations have the integral

 $P + \frac{H^2}{4\pi\rho} + \frac{v^2}{2} = f_1(\Upsilon) \quad (P = \frac{\gamma}{\gamma - 1} \frac{p}{\rho} = \frac{u^2}{\gamma - 1}, \quad \gamma = \frac{c_p}{c_{\gamma}})$ Card 1/2