TALEVUSIAN, G. T.

"Synthesis of polycyclic hydroaromatic ketones: II. 3-keto-7methyl--1, 2, 3, 9, 10, 11 - hexahydrophenanthrones". Tamovosian, G. T. and Vardanian, A. G. (p. 327)

S0: Journal of Goneral Chomistry, (Zhurnal Obshchoi Khimii) 1949, Vol. 19, No. 2.

TAMEVOSIAN, G. T.
"Synthesis of polycyclic hydroaromatic ketones: III. 3-keto-1, 2, 3, 11, 12, 12a-hexahydrochrysene". <u>Tamevosian, G. T.</u> and Vardanian, A. G. (p. 332)

50: Journal of General Chemistry, (Zhurnal Obshchei Khimii) 1949, Vol. 19, No. 2.

L 12576-63 EWP(j)/EWT(m)/BDS AFFTC/ASD Pc-4 RM

ACCESSION NR: AF3003319 S/0191/63/000/007/0075/0077

AUTHOR: Temevos'yan, G. Q.

TITLE: Exhibition of achievements of the national economy of the

SOURCE: Plasticheskiye massy, no. 7, 1963, 75-77

TOPIC TAGS: polyvinyl alcohol, polyvinyl acetate, polyvinyl acetate emulsion, butaphol film, ETs-A cast material, FA monomer, FAED resin

ABSTRACT: Author presents a survey of various vinyl polymers produced by the Soviet industries in the form of powders and films. Polyvinyl alcohol is described. Physico-mechanical properties are for thermoplastics. Polyvinyl acetate is described next. It is produced in several forms, depending upon intended uses. Polyvinyl-acetate can be readily intermixed with mineral fillers and is converted into wares by moulding, calendering and spraying. Physico-winyl acetate emulsions, butaphol film and cast ETs-A material are Card 1/2

L 12576-63		
ACCESSION NR: AP300	3319	
briefly touched on. Author concludes by summarizing so properties of furil varnishes and resins, FA monomer ar Orig. art. has: 1 table. ASSOCIATION: none		ng some of the er and FAED resins.
SUBMITTED: 00	DATE ACQ: 30Jul63	ENCL: 00
SUB CODE: ML	NO REF SOV: 000	OTHER: 000
		형에는 보기 있는 것을 - 이번 보기 등에는 기를
	고 불러 있으면 하는 것이 되었다. 그 보고 있는 것 전 불편되었다면 되었다. 그런	
	생물로 관계된 불로 발견되고 있는 것 같은 강화물로 보기 있는 1000년 12일 1일	
Card 2/2		

是是我们的现在分词的影響的,我們們就們們們們們們們們們們們們們們們們們的一定不多的。

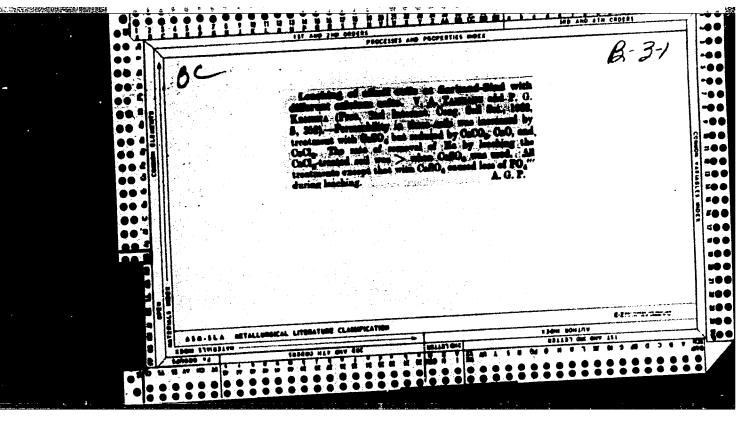
POZLYSHEV, V.A.; PENTIN, Yu.A.; TAMEVSKIY, V.M.

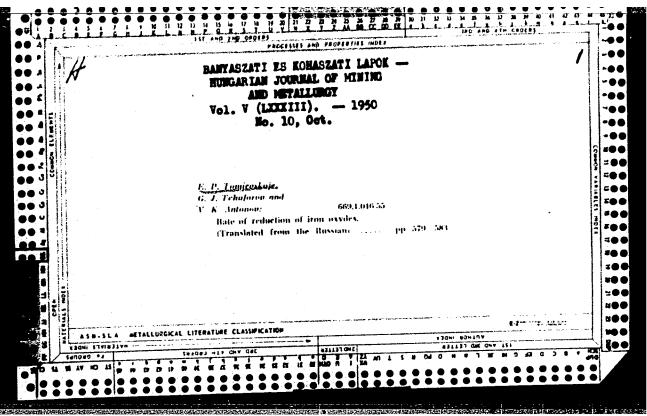
Infrared absorption spectra of some analogenalkanes in the liquid and solid states and the number and configurations of rotational isomers. Opt.i spektr. 3 no.3:211-220 S '57. (MIRA 10:9) (Isomers-Spectra)

BERNANDES DE LA COMPANION DE L

VLOKH, N.P.; MOSHINSKIY, L.G.; ERUN, B.S.; ZOLOTAREV, M.A.;
PEPPELYAYEV, B.I.; TAMGIN, V.S.

Eliminating cavities at the Pokrovskiy mine. Gor. zhur.
no. 12:73-74 D %65. (MIRA 18:12)





GUBKIN, S.I. [deceased]; TAMILIN, R.I.

Hardness of steel at temperatures near solidus. Vestsi AN
BSSR. Ser. fiz.-tekhn.nav. 10.2:5-9
(Steel--Testing)

(Steel--Testing)

TAMITSKAYA, M.V., uchitel'nitsa.

Reviewing botany on field excursions to collective-farm fields. Est. v shkole no.3:42-48 My-Je '53. (MLRA 6:5)

1. Mamontovskaya semiletnyaya shkola, Pushinskiy rayon, Moskovskoy oblasti. (School excursions) (Botany--Study and teaching)

TAMITSKAYA, M.V., metodist.

Experience in conducting student excursions to farms. Est.v shkole no.6:87-88 '53. (MLRA 6:10)

1. Moskovskiy oblastnoy institut usovershenstvovaniya uchiteley.

(School excursions)

THE PARTY OF THE P

TAMITSKAYA, M.V., uchitel'nitsa

"Destroy weeds!" by S.A.Kott. Reviewed by M.V.Tsmitskaia. Biol. v
shkole no. 3:94-95 My-Je '58. (MIRA 11:8)

1. Mamontovskaye shkola Mytishchinskogo rayona Moskovskoy oblesti.
(Weed control)
(Kott, S.A.)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"

TAMITSKAYA, M.V., uchitel nitsa

Practical assignments in studying the biology of plants and insect pests. Biol. v shkole no.1:71-75 Ja-F 159.

(MIRA 12:2)

1. Mamontovskaya srednyaya shkola Mytishchinskogo rayona Moskovskoy oblasti.

(Botany--Study and teaching) (Entomology--Study and teaching)

TAMITSKIY, D. F.

MICHURIN, IVAN VLADIMTROVICH, 1355-1935.

Teachers' insufficient knowledge of Michurin biology and ways to overcome it. Est. v shkole no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1953, Uncl.

SOV/154-58-3-10/24

AUTHORS:

Zaitov, I. R., Docent, Candidate of Technical Sciences,

Tamitskiy, E. D., Engineer

TITLE:

On the Problem of the Quantitative Photometric Interpretation of the Discriminative Properties of Spectrozonal and Color Material for Aerial Photography (K voprosu o kolichestvennoy fotometricheskoy otsenke deshifro vochnykh svoystv

spektrozonal'nykh i tsvetnykh aerofotomaterialov)

PERIODICAL:

Izvestiya vyschikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 3, pp 95-98 (USSR)

ABSTRACT:

This is a presentation of a new method of increasing the accuracy in estimating the discriminative properties of various types of photographic color materials. The procedure is as follows: A negative is assumed to incorporate features of three different types of timber, for example fir, birch, and cak trees. The photoelectric photometer measures the density D of the features of all three types of timber. Averaged densities are obtained from measuring 100 specimens of each type of timber. They are plotted in a diagram. The distribution of the points along the coordinate axis permits to determine to what

Card 1/3

5. 经过去的证据,我们就是我们就是我们就是我们就是我们的,我们就会就是我们的,我们就会没有一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

SOV/154-58-3-10/24

On the Problem of the Quantitative Photometric Interpretation of the Discriminative Properties of Spectrozonal and Color Material for Aerial Photography

degree the densities of the images of one group of objects differs from another. This method is most effective in estimating the alscriminative properties of two-layer color photographic materials. The density of each layer can be measured at any point of the negative. In three-layer negatives the method of quantitative estimation is complicated by the necessity of establishing a three-coordinate frame of reference. In this case the color shade of the negative can be determined according to the international system of color coordinates XYZ with the aid of a visual colorimeter. The ranges of straying are entered into the standardized color diagram. The advantage offered by this method is self-evident in particular with twolayer negatives which are also referred to as spectrozonal negatives. The method was successfully tested in the Laboratcry of Aerial Photography Methods of the Chair of Cartography at the MGU. There are 4 figures and 1 reference, 1 of which is Soviet.

Card 2/3

SOV/154-58-3-10/24

On the Problem of the Quantitative Photometric Interpretation of the Discriminative Properties of Spectrozonal and Color Material for Aerial Photography

ASSOCIATION: Moskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni

Gosudarstvennyy universitet im. M. V. Lomonosova (Moscow Lenin Order and Order of the Red Labor Banner State University imeni

M. V. Lomonosov)

SUBMITTED: December 3, 1957

Card 3/3

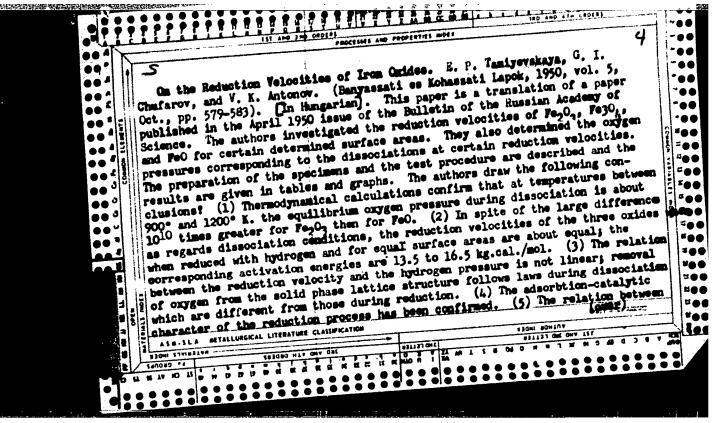
等的现在分词,可是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

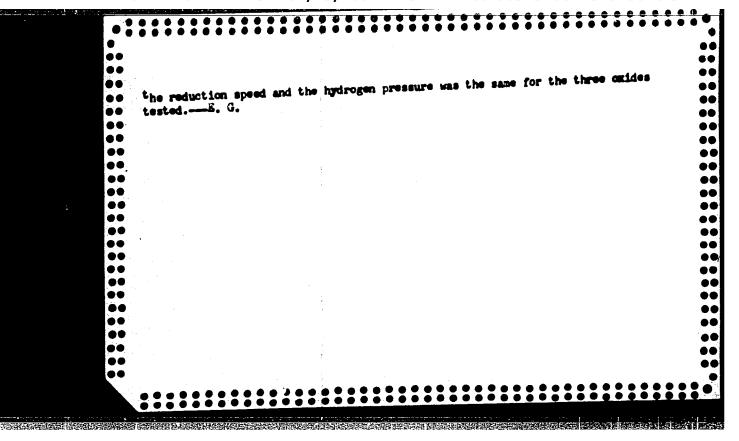
INDICHENKO, I.G.; TAMITSKIY, E.D.

A new copying apparatus for the printing of colored and spectrozonal aerial photographs. Geod.i kart. no.5:30-35 My '61. (MIRA 14:6) (Color printing) (Map printing)

GORBATOV, V.A.; TAMITSKIY, E.D.

Investigating the stability of the color characteristics of a landscape being photographed. Geod. i kart. no.ll:34-38 N º64. (MIRA 18:2)





VEYMER, Arnol'd Tymuvich; TAMJARV, K., red.; SEPP, A., tekhn. red.

[Socialist industrialization of the Estonian S S.R.] Eesti NSV sotsialistik industrialiseerimine. Tallinn, Eesti Riiklik Kirjastus, 1958. 389 p. [In Estonian] (MIRA 15:1) (Estonia-Industries)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"

SCHNEIDR, Heinrich, kand. yur. nauk; TAMJARV, K., red.; KOHU, H., tekhn. red.

[Intercollective organizations and their legal status in the Estonian S.S.R.] Kolhoosidevahelised organisatsioonid ja nende oiguslik seisund Eesti NSV-s. Tallinn, Eesti Riiklik Kirjastus, 1961. 121 p. (MIRA 15:11) (Estonia—Collective farms)

如此,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我 第一个人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就是我们就是

TAMJÄRV, K., red.; SEPP, A., tekhn. red.

[Protection of labor safety in agricultural establishments]
Töökaitse ja ohutustehnika pollumajandusettevotetes. Tallinn,
Eesti Riiklik Kirjastus, 1963. 489 p. (MIRA 16:12)

(Agricultural laws and legislation)

(Agricultural Safety measures)

LIDARZHIK, M.: MIEZIVA, I.; BERANOVA, D.; TAMEHINA, I.

Low molecular weight epoxide resins and their engineering uses. Khim.prom. no.3:209-213 Ap-My '60. (MIRA 13:8)

1. Issledovatel skiy institut sinteticheskikh smol i lakov, Pardubitse, Chekhoslovakiya. (Resins, Synthetic)

EPA(s)-2/EPF(c)/EWP(j)/EWT(m)/ETC(m)/T 7520-66 RM/ww

ACCESSION NR: AP5016887

UR/0374/65/000/003/0087/0092 678:620.179.16

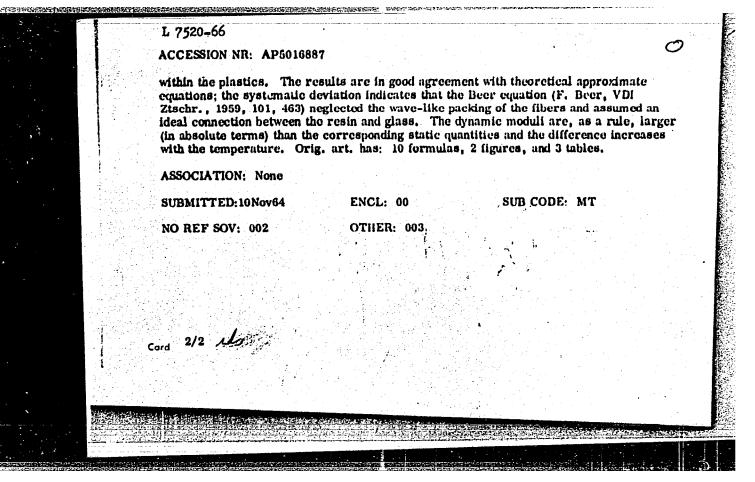
AUTHOR: Zvonarzh, V. (Pardubitse); Tamkhina, I. (Pardubitse)

TITLE: Static and dynamic properties of fiberglass reinforced plastics. Part 2. The effects of thickness

SOURCE: Mekhanika polimerov, no. 3, 1965, 87-92

TOPIC TAGS: fiberglass reinforced plastic, plastic elasticity, elasticity modulus, polyester resin, Beer equation

ABSTRACT: In a previous communication (Mekh. polim., 1965, 1, 146), the authors described the influence of the individual components of polyester resin and glass on the dynamic E and G moduli, and the mechanical loss coefficients d and d' of fiberglassreinforced plastics. The present paper is devoted to the study of thickness effects, i.e., the influence of the number of layers and the thickness of single layers on the statically and dynamically determined E and G elasticity moduli. The temperature effects were also studied. The fiberglass-reinforced plastic was made of Yplast 35 and the unsaturated CHS-Polyester 104 resinguith 2% methyl-ethyl ketone peroxide and 1% of a 10% solution of schools naphthemate in tolure. solution of cobalt naphthenate in toluene. Tests showed that the E and G moduli are, for all practical purposes, independent of the total thickness of the material; they are sensitive, however, to the thickness of a single elementary layer, i.e., to the glass content



Pc-4/Pr-4/Ps-4/Pt-7 EPA(s)-2/EPF(c)/EPR/T/EWP(j) 1 53812-65 UR/0374/65/000/001/0146/0150 ACCESSION NR: AP5011996 678:539.433 AUTHORS: Tamkhina, I. (Pardubitse); Zvonarzh, V. (Pardubitse) TITLE: Static and dynamic properties of fiberglass. 1. Effect of temperature SOURCE: Mekhanika polimerov, no. 1, 1965, 146-150 TOPIC TAGS: fiberglass, polyester, temperature dependence, elasticity coefficient / Uplast 35, CHS Polyester 104 ABSTRACT: The static and dynamic elastic and shear moduli, the coefficients of mechanical and shear loss, and the dielectric loss in fiberglass, cured resins, and glass filler were investigated. Samples were made of Uplast 35 and CHS-Polyester 104. The average glass content was about 55%. The properties of fiberglass depend chiefly on the binder, which was CHS-Polyester 104 in the experiment. The static and dynamic shear and elastic moduli of this material decline rapidly with rise in temperature above 40C, and at 70C are already less than helf the initial value. At 200 the dynamic elesticity modulus was found to be about 45 000 kg/cm2, the shear modulus 15 000 kg/cm2. The corresponding Card 1/2

L 53812-65 ACCESSION NR: AP5011996

Poisson's ratio is about 0.5, and the coefficient of loss about 0.1. For glass the elasticity modulus is near 600 000 kg/cm². For fiberglass the elasticity modulus is 150 000 kg/cm² at 20C. It declines with rise in temperature, and the temperature gradient declines with increase in frequency. Mechanical loss generally increases with rise in temperature, but it shows a minimum at 40C. The ratio of elasticity modulus to shear modulus tends to be about 3, and Poisson's ratio about 0.5. Dielectric loss generally increases with rise in temperature, with a maximum at about 80C. Increase in frequency shifts the maximum toward higher temperatures. Orig. art. has: 6 figures and 2 equations.

ASSOCIATION: none

SUBMITTED: 10Nov64

ENCL: 00

SUB CODE: MT, TD

NO REF SOV: 000

OTHER: 014

Am Card 2/2

TAMKIVI, P. I.

Tamkivi, P. I. - "Control of the Velocity of DC Electric Drive by Changing the Magnetic Current of Machinery in Stages." Min Higher Education USSA. Leningrad Electrical Engineering Inst imeni V. I. Ul'yanov (Lenin). Leningrad, 1956 (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

CIA-RDP86-00513R001754810020-3 "APPROVED FOR RELEASE: 07/13/2001

TAMKIVI, P.I

110-1-5/19

Tamkivi, P.I., Candidate of Technical Sciences AUTHOR:

Speed Control of d.c. Drive by Changing Parts of the Magnetic Flux (Upravleniye skorost'yu elektroprivoda TITIE:

postoyannogo toka izmeneniyem magnitnogo potoka po chastyam)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Vol.29, Ho.1, pp. 17 - 22 (USSR).

The speed of a four-pole d.c. machine can be controlled by altering the field current of only one pair of poles. When this is done, it may be said that part of the magnetic flux ABSTRACT: has been changed; the term 'dual field control' has been used in American literature. If the operating conditions of the machine are satisfactory and the mechanical characteristics of the drive are suitable, this arrangement will increase the range of speed control up to the limit of the mechanical strength of the motor. The magnetic field conditions arising in motors during this kind of operation are analysed to show that if part of the flux is changed, transverse armature reaction is to some extent self-compensating. The influence of the latter on the resulting flux in a machine, type (1H-68, has been calculated and is shown graphically in Fig. 2. results show that whilst with ordinary methods of control the cross-field has a de-magnetising effect at small flux values,

110-1-5/19

Speed Control of d.c. Drive by Changing Parts of the Magnetic Flux

it may even have a magnetising effect when only part of the magnetic flux is changed. When a part of the flux is changed, re-distribution of the flux may reduce the maximum voltage between commutator bars, compared with ordinary methods of control; this is illustrated by the graphs in Fig. 3. It may also reduce the maximum potential difference on the commutator as shown in Fig. 4.

A formula is given for the external characteristics of the generator. Practical tests were made with a machine, type \vec{n} H-68, operating as a generator and as a motor. The experimental data plotted in Fig. 5 show that whilst, with ordinary methods of control, a two-fold change of speed causes instability, an eight- or nine-fold change can easily be obtained by altering the excitation of pairs of poles or of single poles. improvement is mainly due to the altered distribution of magnetic flux in the machine. At small values of magnetisation, the cross-field has a smaller de-magnetising effect than in the normal case.

Transient processes during field control are examined mathematically and it is concluded that when only part of the field is varied they differ little from normal. The method is Card2/3

110-1-5/19 Speed Control of d.c. Drive by Changing Parts of the Magnetic Flux

recommended for increasing the range of speed control without altering the design of the machine for drives using uncompensated machines. Of the possible methods of control, that in which the poles are controlled in pairs gives the best static

and dynamic characteristics.

There are 6 figures and 5 References, 4 of which are Russian and 1 English

ASSOCIATION:

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Power Institute, Ac.Sc. Estonian SSR (Institut energetiki AN ESSR)

SUBMITTED:

July 18, 1956

AVAILABLE:

Library of Congress

Card 3/3

AGUR, Ustus; TIISMUS, Hugo; TAMKIVI, P., kand. tekhn. nank, retsenzent; ABO, L., red.; LUMET, E., tekhn. red.

[Electric drives] Elektriajamid. Tallinn, Eesti Riiklik Kirjastus, 1963. 625 p.

(MIRA 16:12)

KUBEIKA, Vatslav [Kubelka, Vaclav], dokt. tekhn.nauk, prof.; BOGATUROV, B.V.

[translator]; VESELYY, Vityez slav, glavnyy retsenzent; TAMKHINA, Ya,

inzh., doktor, glavnyy red.; VOYTSEKHOVSKIY, V.L., kand.tekhn.nauk,

red.; MINAYAVA, T.M., red.; MEDVEDEV, L.Ya., tekhn.red.

[Fats, oils and emulsions, and their use in tanning. Translated from the Czech] Zhiry, masla i emul'sii i ikh primenenie v kozhevenroi promyshlennosti. Perevod a cheshskogo B.V.Bogaturova. Pod. red. V.L.Voitsekhovskogo. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1957. 233 p. (MIRA 11:2)

1. Slovatskoye vyssheye tekhnicheskoye uchilishche v Bratislave, Chekhoslovakiya. (for Kubelka). 2. Slovenskaya Akademiya nauk, Sektsiya estestvennykh i matematicheskikh nauk (for Tamkhina, Veselyy)

(Oils and fets) (Emulsions)

TAIM. A.

Notes on loose pages on Juhan Smuul's book of poems Mere ja taeva vahel (Batwaen the Sea and the Sky), p. 1430

LOOMING. (EM KIRJANIKE LIIT) Tallinn, Estonia No. 10, Oct. 1959

Monthly List of East European Accessions (EMAI) LC, Vol. 8, No. 12, Dec. 1950 Uncl.

Tami, 3.

The ideal, the present age, and the positive here in our dramatic literature. p. 1404

LOOMING. 'EN KIRJANIKE LIIT') Tallinn, Estonia No. 10, Oct., 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 12, Dec. 1959 Uncl.

KLFSMENT, I.R.; Prinimali uchastiye:DREBENTSOVA, L.I.; TAMM, A.G.

Composition of compounds separated from intermediate shale tar fractions with a soda solution. Khim. i tekh. gor. slan. i prod. ikh perer. no.10:228-241 '62. (MIRA 17:5)

BORISOV, M.I.; BOGDANOV, N.P.; GENTS, N.N.; TAMM, A.I.; FILATOVA, I.T., red.; GOLICHENKOVA, A.A., tekhn.red.

[Trade Union of Builders; brief outline history] Profsoiux stroitelei; kratkii istoricheskii ocherk. Moskva, Izd-vo VTsSPS, Profizdat, 1959. 190 p. (MIRA 13:5) (Trade unions)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"

83860

28.1000

s/023/60/000/002/003/003 C 111/ C 333

AUTHOR: Tamm, B.

TITLE: Methods of Linear Interpolation of Curves of Third Order for Numerically Controlled Milling Machines

PERIODICAL: Izvestiya Akademii nauk Estonskoy SSR. Seriya tekhnicheskikh i fiziko-matematicheskikh nauk, 1960, No. 2, pp. 160-175

TEXT: The present paper was carried out in the Institut avtomatiki i telemekhaniki Akademii nauk SSSR (Institute of Automatics and Telemechanics of the Academy of Sciences USSR) under guidance of V. A. Kotel'nikov, Candidate of Technical Sciences.

For the automatic control of the milling process the profile of the material to be machined is approximated by polygonal lines. Here the maximum deviation of the polygonal line from the profile must not exceed a magnitude δ defined by the demanded accuracy of the treatment. If the profile is described by y = f(x), then the x-axis can be divided into equal intervals \triangle x and the secant line corresponding to these intervals can be taken as approximation. The choice of \triangle x depends on the mentioned

Card 1/3

X

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Methods of Linear Interpolation of Curves of Third Order for Numerically Controlled Milling Machines

 δ - demand. The determination of an optimum Δx (i. e. as large as possible) for which this demand is satisfied, requires a repeated detailed calculation of the whole polygonal line. Therefore the author proposes to dispense with equal Δ x-intervals, and starting from the given initial point to determine the first Δx such that the corresponding secant has the maximum admissible distance δ from the curve f(x). The end point of the secant determines the new initial point, the second secant is chosen again so that the δ -demand is maximally utilized, etc. The method can still be modified by remaining on the first secant as long as it has again the maximally admissible distance δ from the curve beyond the intersection with the curve. The author explicitly calculates this interpolation method for the case where the profile is described by cubic parabolas.

ıΧ

The author mentions V. V. Karibskiy, Engineer of the Institute of Automatics and Telemechanics of the Academy of Sciences USSR.

Card 2/3

83860

S/023/60/000/002/003/003 C 111/ C 333

Methods of Linear Interpolation of Curves of Third Order for Numerically Controlled Milling Machines

There are 12 figures, and 4 references: 2 Soviet and 2 American.

ASSOCIATION: Institut energetiki Akademii nauk Estonskoy SSR (Institute of Power Engineering of the Academy of Sciences Estonskaya SSR)

SUBMITTED: November 6, 1959

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"

X

S/103/61/022/008/007/015 D274/D302

AUTHOR:

Tamm, B.G. (Tallin)

TITLE:

Automatic programming system for machine tools

PARIODICA:

Avtoratika i telemekhanika, v. 22. no. 8, 1961,

1038-1054

The computation of change points (i.e. points where one type of curve intersects another type) is considered for a linear-circular interpolator along a contour consisting of lines and circles: a system of automatic programming is proposed for computing these points. The track of the cutter center (the equidistant) is automatically found by a computer. This compares very favorably with previous methods. The method of computing the equidistant reduces to simply describing the track of the cutter center by means of a coded control-program. The control program contains the initial data (i.e. all the unknown geometrical elements in terms of the known ones) and the instructions for the computing process. Tables are given with the code used for the Russian words expressing the

Card 1/5

Automatic programming system.

\$/103/61/022/008/007/015 D274/D302

geometrical elements and the instructions. The program is punched on tape in the form of a combination of decimal and octary figures. The elementary code notations are fed into the computer in the decimal system; the complex notations and the instructions are fed in the octary system. The notations are fed to the working memory of a general-purpose computer (GPC), and the instructions are read gradually by the input unit in the course of the computation process. The system of automatic programming (SAP) itself is always placed in the permanent memory of a general-purpose digital computer. The SAP operates as follows. The computation process can start after the coded notations are fed to the working memory. The instructions are fed (after reading) to a control unit. This unit forms (automatically) the algorithm of the computations and deciphers the input data. The deciphering is done by two devices: the decipherer of commands, and the decipherer of the geometrical meaning of the command. The first decipherer divides the commands into two groups, so that the second decipherer receives only the commands containing geometrical elements. Each geometrical element has its own converter. A geometrical element which passes through Card 2/5

CIA-RDP86-00513R001754810020-3

Automatic programming system...

S/103/61/022/008/007/015 D274/D302

the second decipherer and its converter, is expressed by its appropriate characteristic (a circle e.g. is expressed by the coordinates of its center and its radius). The converters constitute the converter unit. This unit, besides transforming the given geometrical elements into standard form, solves also problems of finding the equidistant. After the elements of the equidistant have been put into standard form, all the change points are calculated which are required for determining the continuous track of the cutter center; other relevant data of the cutter (its radius e.g.) are given by the control unit and processed. The last stage of the computation process consists in finding the increments (with respect to the coordinate-axes) of conti-guous points of the equidistant the increments leave the cutput of the computer in the form of perforated tape, ready for use by the interpolator. In principle, the described system of automatic programming can be incorporated in any general-purpose computer with sufficient data-storage capacity, provided it is equipped with a special input device for the code or the system. An example is given of transforming a straight line to standard form. Another example illustrates the calculation of

Card 3/5

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"

S/103/61/022/008/007/015 D274/D302

Automatic programming system.

the change points given by the intersection of a straight line and a circle. The control functions of the control unit are described. and an average working cycle of the system is considered as an example. The system was programmed for actual conditions and experimentally tested on the computer M-3. The results showed that the time gained by using the system is expressed by a factor of 7 to 0 (as compared with non-automatic means) in the case of relatively simple parts; the gain is much greater for complex parts. If faster computers are used (for example 'Minsk-1"), and photo-electric inputdevices, computation time is reduced by a factor of 60. The system saves brain-work and time as the program is coded, the errors in the data processing are reduced to a minimum. It is no longer necessary to make accurate drawings of parts; it is sufficient to make sketches by hand, hence the labor of the designer is considerably facilitated. There are 8 figures, 5 tables and 4 references: 2 Soviet-bloc and 2 non-soviet-bloc. The references to the English-language publications read as follows: A. Siegel: Automatic Programming of Numerically-Controlled Machine Tools, Control Engineering, no. 10, October 1956. D.T. Ross: Automatic Programming. Aircraft Production, v. 20, no. 5, May 1958. Card 4/5

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"

TAMM, B.

First interdepartmental conference on methods for preparing information for program-controlled mechine tools. Eesti tead. akad.tehn. 1000. no.1:77-78 62.

TAMM, B. G.

Stanki i instrument, no. 10, 1962, p. 44

Dissertations

S/121/62/000/010/005/005 D040/D112

The following dissertations for the degree of Cand. of Technical Sci. were presented: Electric Motors in Unstabilized Motion Periods"; V.M. Kolesnikov, at the All-Union "Order of the Red Banner of Labor" NII of Electromechanics, "Investigation of a Pulse Drive With a Step-by-Step Motor and Development of Its Elements"; S.N. Korchak, at the Moskovskiy stankoinstrumental'nyy institut (Moscow Institute of Machine Tools and Instruments), "Investigation of the Machinability of Steels in Grinding by Wheels Having Different Properties"; Ye.P. Mikityuk, at the Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev "Order of Lenin" Polytechnic Institute), "Investigation of the Effect of Partial Bimetallization on the Wear Resistance of Cast Iron Friction Couples"; N.K. Ostroumov, at the Moskovskoye ordena Trudovogo Krasnogo Znameni vyssheye tekhnicheskoye uchilishche im. N.E. Baumana (Moscow "Order of the Red Banner of Labor" Higher Technical School im. N.E. Bauman), "Investigation of the Automatics of Mechanical Copying in Machine Tools with Coordinate Cams and Elastic (Flexible) Links"; B.G. Tamm, at the Nauchno-issledovatel'skiy tekhnologicheskiy institut (Technological Scientific Research Institute), "Methods of Automatically Programming the Calculation of Initial Data for Program Control Systems";

Gard 2/3

KOBRINSKIY, A.Ye., red.; TAMM, B.G., red.; SKVORTSOVA, A., red.; TOOMSALU, E., tekhn. red.

[Methods for treating information for program controlled machine tools] Metody podgotovki informatsii dlia stankov s programmnym upravleniem; sbornik statei. Tallinn, 1963. 183 p.

1. Eesti NSV Teaduste Akadeemia. Kibernetika instituut.

TAMM, B.G., kand. tekhn. nauk

New system of automatic programming for metal-cutting tools. Vest. AN SSSR 33 no.12:42-45 D '63. (MIRA 17:1)

1. Institut kibernetiki AN Estonskoy SSR.

TAMM, B. G.

"Sur la programmation automatique des systemes de commande." report submitted for 4th Intl Cong, Cybernetics, Namur, Belgium, 21-25 Oct 64.

TAMM, B.

Methods for the automatic computation of trajectories for the mechanical treatment of a certain class of spatially complex surfaces. Eesti tead akad tehn funs no.3:182-189 61.

1. Academy of Sciences of the Estonian S.S.R., Institute of Cybernetics.

PRUUDEN, E.; PRUUDEN, Yu. [Pruuden, J.]; TAMM, B.

Approximate determination of the optimal sequence of a given combination of machining positions. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. mauk 14 no.3:455-463 '65. (MIRA 18:11)

1. Institut kibernetiki AN Estonskoy SSR.

50V/112-59-5-9960

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 219 (USSR)

AUTHOR: Artym, A. D., and Tamm, D. L.

TITLE: Selecting the Transmitting System for Stereophonic Radio Broadcasting

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1958, Nr 194, pp 44-53

ABSTRACT: From a consideration of the requirements of a stereophonic radiotransmission system, the following fundamental principles of the system have been drawn: (1) transmitting both stereo-sound channels can be realized by one radio transmitter having a subcarrier; (2) stereophonic program transmission can be realized by FM in the microwave band by using standard transmitters; (3) transmission-channel signals can be formed by the Crosby sum-difference method. The AM-subcarrier system has been selected for its simpler two-channel modulation and particularly for its simpler channel division in the receiver; with an FM system, a better (by 7 db) anti-noise feature could be obtained only by considerable complication of the receiver

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SOV/112-59-5-9960

Selecting the Transmitting System for Stereophonic Radio Broadcasting

circuit. Experimental testing of an AM master oscillator (a block scheme is presented) showed good quality in both channels with only 11 tubes and a simple alignment. The channel frequency characteristics show that the nonlinear distortion factor in any of the channels is not higher than 1.5% with m = 100%. The background-noise level lies lower by -65 db than the signal level at m = 100%. The experiments have proven that: (1) the above transmission-signal principle permits easy division of the two channels; (2) the master oscillator and the transmitter can secure a high quality of reproduction of the program. Bibliography: 5 items.

V.M.L.

Card 2/2

	mm	EI.		
		BELOUSOV, A. S.; RUSAKOV, S. V.; TAMM, E. I.; TATARINSKAYA, L. S.	653	
	:	"Photoproduction of A -Mesons from Deuterium"		
		report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962		
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RAUDAM, E.I.; REYNET, Ya.Yu.; TIKK, A.A.; VEL'DI, A.T.; TAMM, E.I.

Use of aerosols and electroaerosols in the acute stage of poliomyelitis especially in tracheotomized patients. Zhur. nevr. i psikh. 60 no.11:1428-1434 '60. (MIRA 14:5)

l. Kafedry nevrologii i obshchey fiziki Tartuskogo gosudarstvennogo universiteta i respiratornyy tsentr Tartuskoy respublikanskoy klinicheskoy bol'nitsy.

(POLIOMYELITIS) (TRACHEA—SURGERY)

(INHALATION THERAPY)

AUMEES, Leo; TAMM, F., red.

[The bird population of Vilsandi] Vilsandi linnuriik. Tallinn, Eesti Riiklik Kirjastus, 1963. 54 p. [In Estonian] (MIRA 17:6)

IVASK, Albert; TAMM, F., red.; LUMET, E., tekhn. red.

[Rõuge - Hasnja - Vastselinna] Rouge - Hasnja Vastseliina. Tallinn, Eesti Riiklik Kirjastus, 1963. 1 v.

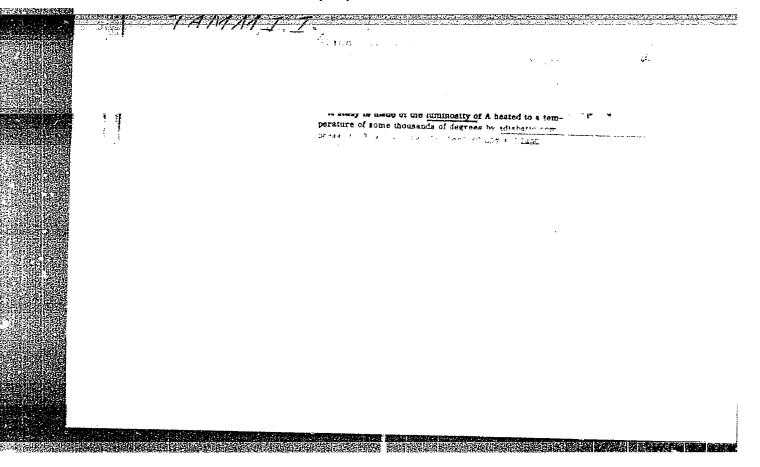
(MIRA 17:1)

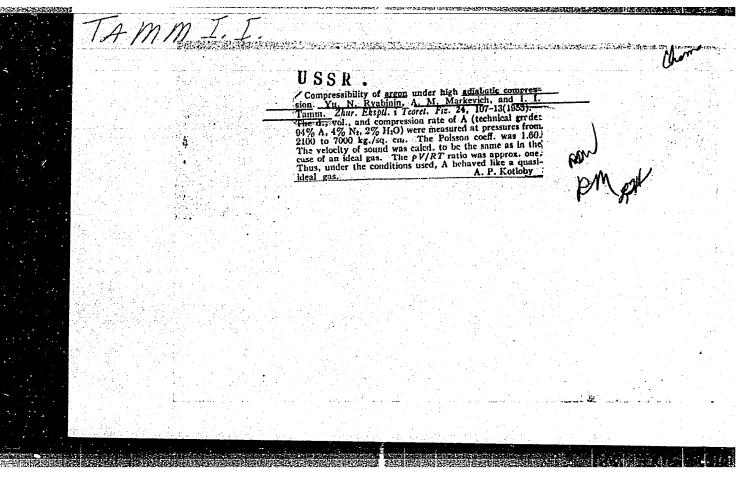
(Estonia-Description and travel)

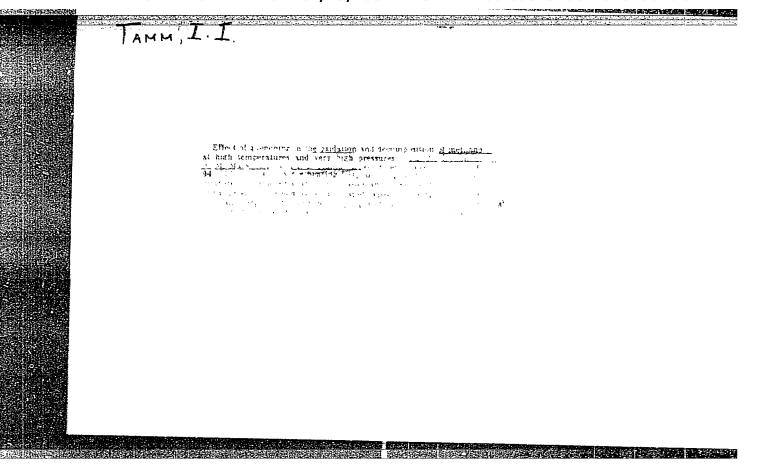
RENNO, Olav; TAMM, F., red.

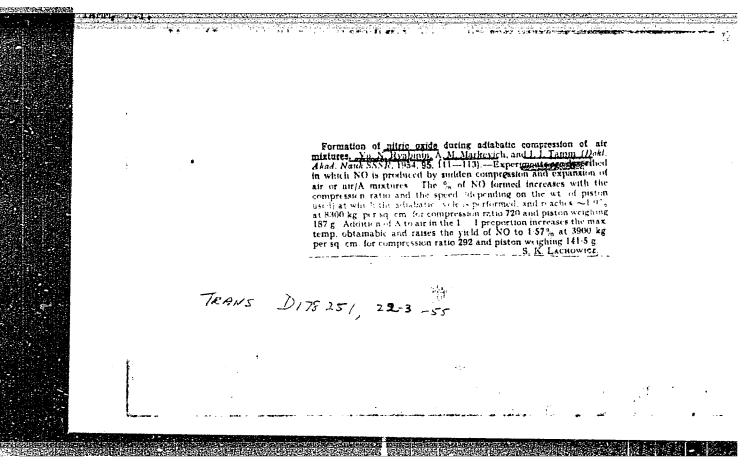
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Matsalu. Tallinn, Kirjastus "Eesti Raamat," 1965. 103 p. [In Estonian] (MIRA 18:4)









USSK/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry,

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3841.

Author : Yu. N. Ryabinin, A.M. Markevich, I.I. Tann.

: Academy of Sciences of USSR. Title

: Formation of Nitrogen Oxide by Adiabatic Compression of Combustible Mixtures.

Orig Pub: Dokl. AN SSSR, 1957, 112, No 2, 283-286.

Abstract: A method to increase NO yield of the diabatic air compression to 9000 kg per sq.cm by rising the temperature at the expense of combustion of gases added to the air is proposed. The methods of carrying out the experiments were described earlier (RZhKhim, 1954, 37431). The maximum NO yield (in 1/4) in mixtures containing 5.5% of CH₄ and 94.5% of air, 5.5% of CH₄, 52.7% of O₂ and 41.8% of N₂, 18.3% of H₂, 45.4% of O₂ and 36.3% of N₂, and 15.6% of CO, 46.1% of O₂ and 38.3% of N₂ was

Card : 1/2

-1-

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USSR/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry, Catalysis.

B-9

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3841.

1.4, 2.86, 2.37 and 1.7 correspondingly. The authors emphasize the influence of the cooling speed of the reacting mixture on the NO yield.

Card : 2/2

SHOWER PROPERTY.

-2-

TAMM, I.I.

AUTHOR:

MARKEVICH, A.M., TANK, I.I., RYABININ, YU, N. PA - 2776

Pormation of Hydrocyanic Acid under Strong Adiabatic Compression of Gas Mixtures. (Obrazovaniye sinil'noy kisloty pri sil'nom adiabaticheskon sshatii gazovykh smesey, Russian)

PERIODICAL:

Doklady Akademii Mauk SSSR, 1957, Vol 113, Nr 4, pp 856 - 859

(U.S.S.R.)

Received: 6 / 1957

Reviewed: 7 / 1957

A CONTROL OF THE PROPERTY OF T

ABSTRACT:

In the authors' previous works the reaction of the forming of nitrogen oxide was investigated by high adiabatic compression. It was also possible to obtain yields of up to 1% from pure air within some ten thousandths parts of a second at a compression of up to 700 and a pressure of 8000 - 9000 kg/em. By dilution of the mixture with argon, by which higher temperatures were attained, or by the addition of fuels (methane, H2, CO), the authors were able to increase the nitrogen yield up to more than 3 % by increasing the temperature by means of combustion. Under these circumstances the production of HCN is also possible and was studied on this occasion. Thermodynamic considerations point to the face that with a rise of temperature the equilibrius is shifted in the case of this reaction in favor of the formation of HCE, which is similar to what is the case with the formation of NO. Now HCE formation in mitrogen-hydrocarbon mixtures, i.e. methane, and acetylene, was investigated. In the case of methane there was no reaction up to 10 000 kg/cm . Only considerable additions of

Card 1/2

Formation of Hydrocyanic Acid under Strong Adjabatic PA - 2776 Compression of Gas Mixtures.

argon (77°) sould make this possible (table 1), and the highest HCN yield amounted to 1 % of the original admixture volume. Much more HCM was obtained from acetylene mixtures. Reaction begins at a pressure of about 1000/kg/cm² and the yield is about 3 % HCN (at a pressure of 5000-9000 kg/cm²) The addition of argon also here leads to an increase of the yield of HCN up to 4 %. The shape of the experimental curves deserves special interest: They are characterized by transition to saturation. Apparently the constant HCN yield is to be explained by the colling regime, in which connection a sort of "hardening" takes place. Therefore, the HCN quantity, which is actually proved by means of the reaction products, need not correspond to that quantity which was obtained by experiments carried out at maximum temperatures, but it can be much smaller. Cooling of reaction products forms an integral part of the adiabatic cycle, By this it is possible to explain the occurrence of a horizontal section of the curves (illustration 1) at a pressure of about 4000-4500 kg/cm². (1 table, 1 drawing, 6 citations from Slav publications).

Card 2/2

ASSOCIATION:

Institute for Chemical Physics of the Academy of Science of the USSR.

PRESENTED BY: V.W.KONDRAT'YEV

SUBMITTED: AVAILABLE:

20.11.1956 Library of Congress

5(4) SOV/76-32-10-3/39

AUTHORS: Markevich, A. M., Tamm, I. I., Ryabinin, Yu. N.

TITLE: The Formation of the Formaldehyde in an Adiabatic Compression

of Methane-Oxygen Mixtures (Obrazovaniye formal'degida pri

adiabaticheskom szhatii metano-kislorodnykh smesey)

PERIODICAL: Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 10, pp 2242-2245

(USSR)

MATERIAL PROPERTY OF THE PROPE

ABSTRACT: The authors employed a method suggested already earlier (Ref 1).

The methane used contained 1-2% of higher hydrocarbons. The most interesting part of the adiabatic cycle, within which the pressure increases to some hundreds and thousands of kg/cm², lasts only some ten-thousandths of a second. The velocity of the temperature change of the compressed gas is therefore also

 10^6-10^7 degree/second, so that a rapid drop of temperature in the expansion of chemically active gas mixtures leads to a high degree of hardening (Ref 2); thus, the reaction may be fixed at an intermediate stage. In the paper by M. S. Furman and D. S. Tsiklis (Ref 7) the formation of formaldehyde in an

Card 1/3 adiabatic compression of methane-oxygen mixtures was qualita-

CIA-RDP86-00513R001754810020-3"

APPROVED FOR RELEASE: 07/13/2001

SOV/76-32-10-3/39 The Formation of the Formaldehyde in an Adiabatic Compression of Methane-Oxygen Mixtures

tively determined. The present experiments show that the character of the reaction of the mixture depends first of all on the oxygen content. Mixtures with more than 15% 0, ignite under the deposition of soot. It is characteristic that the ignition does not take place at the maximum pressure but a little later when the mixture has expanded. Only with an oxygen content of less than 15% was it possible to interrupt the reduction in order to obtain an intermediate product. The reaction products of the compression have an unpleasant, sharp smell and contain formaldehyde as well as other intermediate products which form an intense fog with air. At a low compression (300-350 kg/cm^2) and a low content of formaldehyde this formation of fog is not observed. In mixtures of natural gas and oxygen the formaldehyde formation begins at lower compressions than in pure methane, due to the increase of the oxygen content. The maximum content of formaldehyde (2,2%) is obtained at an oxygen content of 6 and 9%, and at a pressure of about 3000 kg/cm 2 ; it remains constant up to 7000 kg/cm². Mixtures with 12% 0, have a different re-

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"

sov/76-32-10-3/39

The Formation of the Formaldehyde in an Adiabatic Compression of Methane-Oxygen Mixtures

action character. There are 6 figures, 1 table, and 9 references,

9 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut khimicheskoy fiziki, Moskva

(Moscow, Institute of Chemical Physics, AS USSR)

SUBMITTED: November 28, 1956

Card 3/3

5(4)

occupanted of

SOV/76-33-3-9/41

AUTHORS:

Markevich, A. M., Tamm, I. I., Ryabinin, Yu. N.

TITLE:

The Role of Chilling in the Reaction of the Synthesis of

Nitrogen Oxide I (Rol'zakalki v reaktsii sinteza okisi azota.I)

THE TRANSPORT OF THE PROPERTY OF THE PROPERTY

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 3,

pp 559 - 565 (USSR)

ABSTRACT:

The physical importance of chilling is shown by the example of the synthesis of nitrogen oxide and the role of chilling rate of the combustion products is pointed out. In the reaction $0_2 + N_2 + 2 = 2 = 100 - 43$ kcal (1) in the presence of an

excess quantity of oxygen a temperature rise will favor the reaction (in the first phase) towards the right, whereas in the case of chilling (in the second phase) the decomposition reaction is favored. If in the case of high temperatures the reaction rate (RR) is sufficiently high, the NO-concentration approaches the equilibrium value. Chilling in the second phase of the process (Fig 1) will lead to a still greater deviation of the NO-concentration from the equilibrium value in order

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to remain constant at a temperature \mathbf{T}_1 . In publications this

The Role of Chilling in the Reaction of the Synthesis SOV/76-33-3-9/41 of Nitrogen Oxide I

phenomenon is called chilling. In order to obtain a precise explanation of the conditions of cooling the connection between the (RR) of the NO-decomposition and the rate of variation of the equilibrium concentration are taken into account at different stages of cooling, and the two entirely different processes of reaction are determined. The transition from one reaction are determined. The transition from one reaction phase into the other is denoted by several critical values of chilling rate and determines the phase of chilling. There are 3 figures and 2 Soviet references.

ASSOCIATION:

Akademiya nauk SSSR, Institut khimicheskoy fiziki (Academy

of Sciences, USSR, Institute of Chemical Physics)

SUBMITTED:

April 24, 1957

Card 2/2

5(4) SOV/76-33-4-3/32 AUTHORS: Markevich, A. M.,

Tamm, I. I., Ryabinin, Yu. N.

TITLE: The Part Played by Quenching in the Reaction of the Synthesis of the Nitrogen Oxides.II. (Rol' zakalki v reaktsii sinteza

okisi azota.II)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 4, pp 764-770

(USSR)

ABSTRACT: In continuation of a previous paper (Ref 1) a number of data

> from publications on investigations of the nitrogen oxide synthesis under various experimental conditions is explained in this paper. The paper which contains the corresponding diagrams and tables is divided into the following chapters: natural cooling of the reaction products in closed reaction vessels. Experiments in apparatus with an intensive cooling. Experiments in adiabatic apparatus. Determinations in flow apparatus. It was found that all data which were obtained under most different conditions may be considered from one viewpoint and therefore determinations may be made with experimental data from two completely different conditions of reaction. In one case the rate of the direct synthesis reaction is insufficient, in the other, the rate of cooling of the reaction

products is low. In the experimental data investigated the

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807/76-33-4-3/32 The Part Played by Quenching in the Reaction of the Synthesis of the Nitrogen Oxides II

NO-yield is determined mainly by the rate of cooling. Experiments which took place under an intensive cooling were successful only in two cases: in the method of membrane destruction (Ref 12) and in experiments on an adiabatic apparatus (Ref 15) where a strong increase of the rate of cooling and a corresponding increase in the NO-yield was attained. There are 5 figures, 2 tables, and 19 references, 13 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR Institut khimicheskoy fiziki Moskva

(Academy of Sciences of the USSR Institute of Chemical

Physics Moscow)

SUBMITTED: July 23, 1957

Card 2/2

BELYAYEV, A.F. (Moskva); SADOVSKIY, M.A. (Moskva); TAMM, I.I. (Moskva)

Application of the law of similarity to the phenomenon of transmitted detonation in blasts. PMTF no.1:3-17 My-Je '60. (MIRA 14:8)

1. Institut khimicheskoy fiziki AN SSSR. (Blasting)

SADOVSKIY, M.A.; TAMM, I.I., kand.tekhn.nauk; BELYAKOV, G.V., inzh.

Determining safe distances for detonation transmission. Bezop.truda v prom. 6 no.8:5-9 Ag *62. (MIRA 16:4)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Sadovskiy).

(Blasting—Safety measures)

THE PROPERTY OF THE PROPERTY O

TAMM, I. Ye.

'Electrodynamics of Anisotropic Media in the Special Theory of Relativity."

ZhRFKh0 ch. fizich 1924, Vol 56 p. 248

TAMM, I. Ye

"On the Quantum Theory of Paramagnetism.

Zs. F. Phys. 1925 Vol 32. p. 582.

TAMM, I. Ye.

"Experiment in Quantitative Formulation of the Principle of Correspondence and Computing the Intensity of Spectral Lines."

Zs. F. Phys. 1925. Vol 34, p. 58.

TAMM, I. Ye".

"Crystallooptics of the Theory of Relativity in Relation to the geometry of Biquadratic Forms."

ZhRFKhO ch. Fizich 1925 Vol. 57, p. 209.

TAMM, I. Ye.

"On the Quantum Mechanics of a Rotator.

Zs. F. Phys. 1926, Vol 37, p. 685.

THE REPORT OF THE PROPERTY OF

TAMM, I. Ye

"On the Electrodynamics of a Rotating Electron.
Zs. F. Phys. 1929. Vol 55. p. 199.

TAMM, I. Ye.

Tengrapian and and an arrangement

"On the Quantum Theory of the Molecular Dispersion of Light in Solid Bodies.

Zs. F. Phys. 1930. Vol 60. p. 345.

TAMM, I. Ye.

"On the Relationship of a Free Electron with Radiation according to Dirac's Theory of the Electron and Quantum Electrodynamics.

Zs. F. Phys. 1930. Vol 62. p. 545.

TAMM, I. Ye.

SALES OF A PROPERTY.

"Notations on the Dirac Theory of Radiation of Light and Dispersion.

Zs. F. Phys. 1930. Vol 65. p. 705.

TAMM, I. Yo.

"On the Theory of the Photoeffect on Metals (S. P. Shubin- co-author).

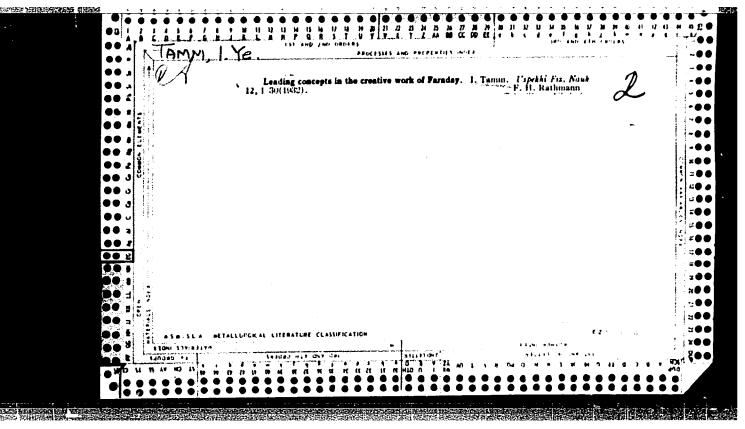
Zs. F. Phys. 1931 Vol 68. p. 97.

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"Generalized Spherical Functions and Wave Functions of the Electron in the field of a magnetic pole.

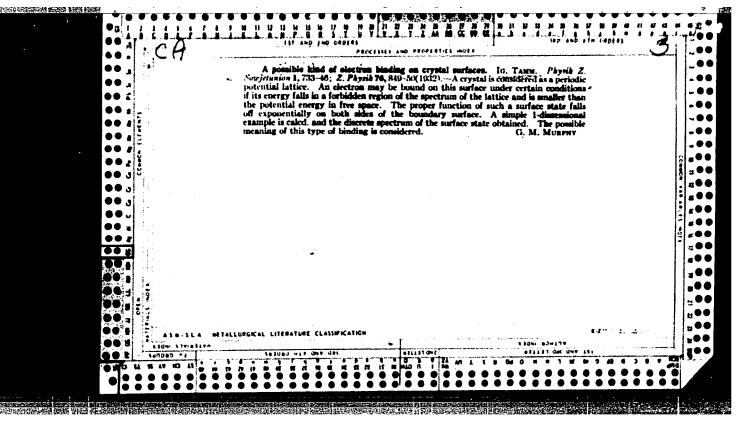
Zs. F. Phys. 1931. Vol 71. p. 141.

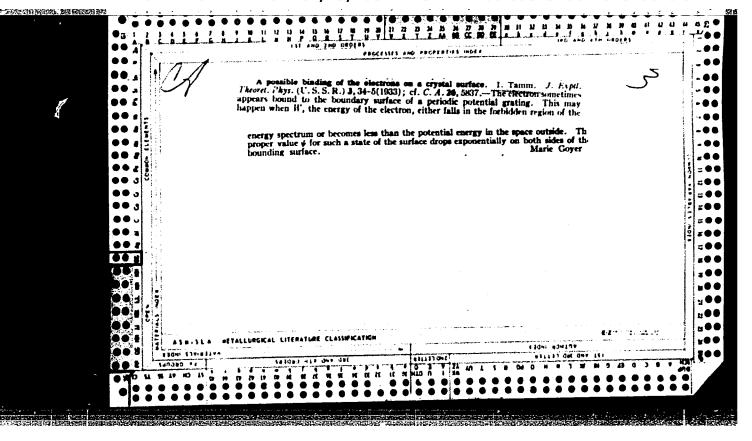


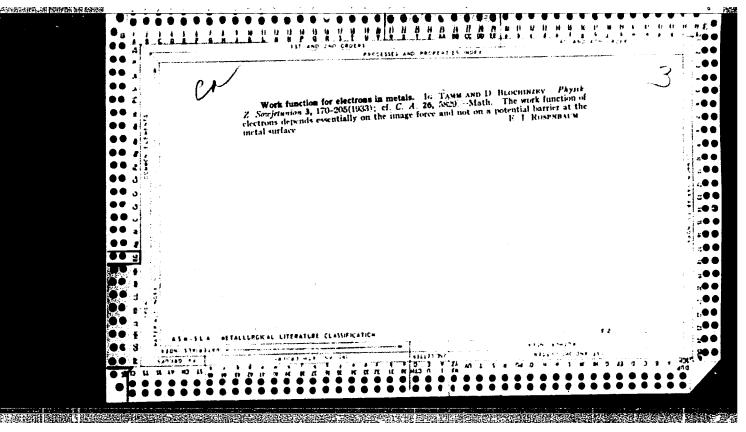
TAMM, I. Ye.

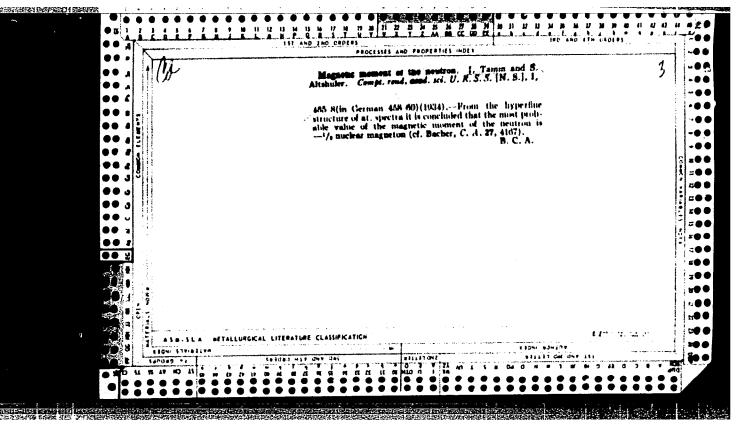
"On the Theory of the Photoeffect on Metals.

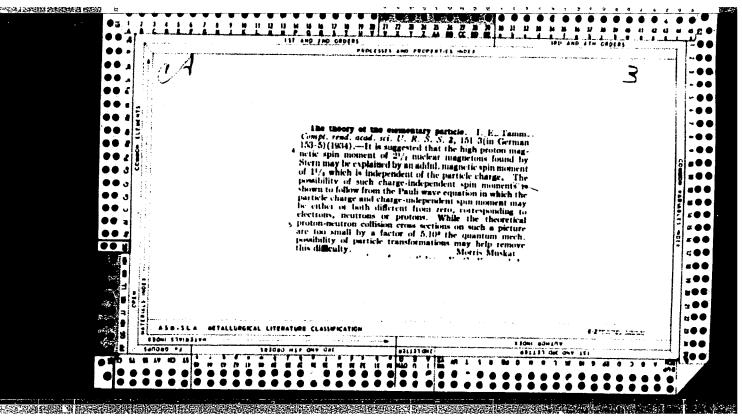
Phys. Rev. 1932. Vol 39. p. 170.

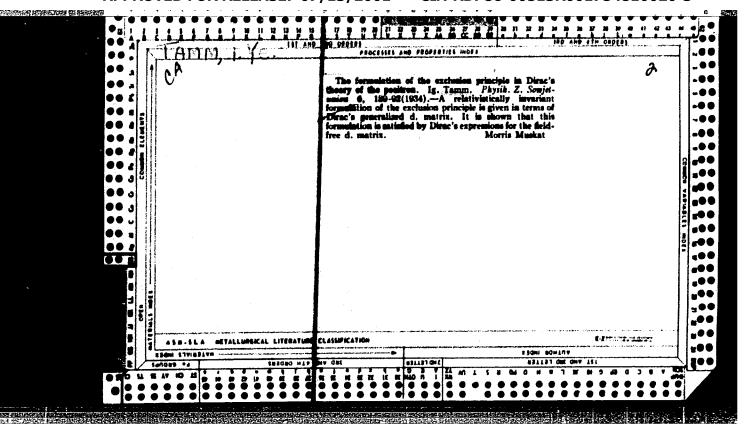


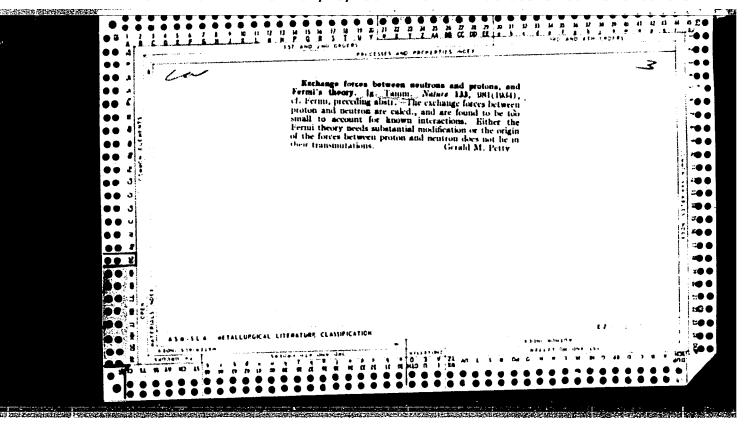


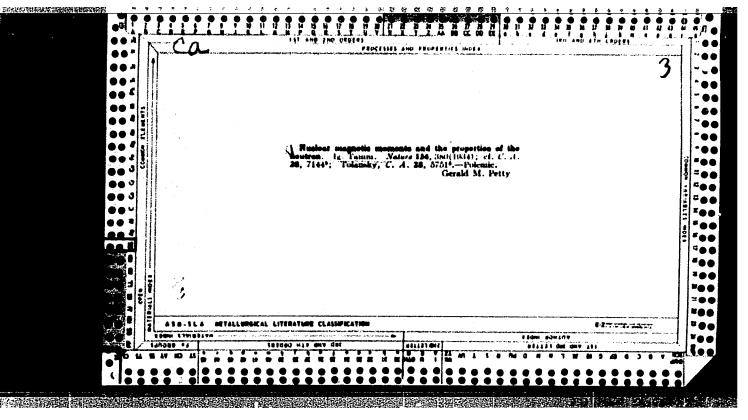












TAIM, I. Ye.

"Interaction of Neutrons and Protons.
Nature 1934 Vol 134. p. 1010.

TAMM, I. Ye.

"Zero Energy and Physical Properties of H₂O and D₂O. (Dzh. D. Bernal co-author). Nature 1935. Vol 135. p. 229.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754810020-3"