

VOROBIYEV, V.D.

AUTHORS:

Nikishin, G.I., Vorch'yey, V.D., Fetrov, A.D.

62-12-12/20

TITLE:

The Telomerization of Fromylone and Ethylene With Methyl Formiate

(Telomerizatsiya propilena i etilena s metilformiatom).

PERICDICAL:

Izvestiya AN SSSR Ctdelenie Khimicheskikh Hauk, 1957, Hr 12,

pp. 1488-1489 (USSR)

ABSTRACT:

The homolytic telomerization of ethylene in the presence of perceide catalysts was described on the basis of numerous examples. As a result of this reaction the highest functional compounds with normal carbon atom chain was received. The aforementioned telemerization, on the other hand, has been much more rarely studied. The authors made it their task to investigate the synthesis of acids and their esters with a ramified carbon chain, and studied the reaction of the telomerization of methyl formiate with propylene. On this occasion they found that with a reciprocal action of the propylene with methyl formiate (in the presence of peroxide tributyle) the reaction of telomerization takes place with methyl esters of the strongest acid. The reaction of the polymerization of the propylene, on the other hand, takes place with the formation of hydromarbon. By the interaction of methyl formiate with ethylene methyl remainders with

Card 1/2

The Telomerization of Propylene and Ethylene With Methyl Formiate

62-12-12/20

an average molecular weight of 1850 were obtained. The telomerization of ethylene was carried out under a pressure of 200 atmospheres and at a temperature of 150°. There are 7 references, 3 of which are Slavic.

ASSCOIATION:

Institute for Organic Chemistry AN USSR imeni N.D.Zelinskiy (Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR).

SUBMITTED:

July 4, 1957

AVAILABLE:

Library of Congress

Card 2/2

1. Ethylene-Methyl formiate-Telomerization 2. Propylene-Methyl formiate-Telomerization 3. Ethylene-Homolytic telomerization-Peroxide catalyst

· VOROBYEV, V.P.

48-7-6/21

AUTHORS:

Vorob'yev, V.D., Il' in, K.I., Kol'chinskaya, T.I., Latyshev, G.D., Sergeyev, A.G., Trofimov, Yu.N., Fadeyev, V.I.

TITLE:

The Spectrum of the Electrons of the Internal Conversion of Active Radium-Containing Thorium Deposits III(Domain Hg = 1380 to 2700 and 3500 tou 9000 Gs. cm.) (Spektr elektronov vnutrenney konversii aktivnogo osadka radiotoriya

III(Oblast' He = 1380 do 2700 i 3500 do 9000 Gs. cm)

PERIODICAL:

Izvestiya Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7,

pp. 954 - 961 (USSR)

ABSTRACT:

1.) The intensities of the conversion lines. In the determination of the relative intensities of conversion lines the fact was taken into account that a portion of the atoms ThC falls down from the source due to the cemission on the decay The The This circumstance leads to the fact that the intensity of all conversion lines developing on the decay ThC' A ThD ridecrease by 30 % in comparison with the intensity of the lines of other nuclei. Therefore the intensities of all lines which develop in connection with the decay ThC " ThD were determined with regard to the line L which develops in the same decay. The

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The Spectrum of the Electrons of the Internal Conversion of Active Radium-Containing Thorium Deposits
III(Domain Hg = 1380 to 2700 and 3500 to 9000 Gs. cm.)

intensities of the other lines were determined with regard to the I-line ThB -> ThC. In order to connect all intensities with each other the relation of the L - and I - line intensities to the source was determined, the latter being covered by a foil the source was determined, the latter being covered by a foil in order to prevent a falling down of the emission atoms. Dein order to prevent a falling down of the emission atoms. Detailed calculations and explanations are given. The authors estimate the accuracy of their measurements of the absolute intensities with 5 - 10 % for the intensive lines.

2.) The conversion spectrum in the domain Hp = 1380 to 2600 Gs.cm
In the study of this portion of the spectrum 3 series of measurements were made. In every series the position and intensities of
the lines were determined. The average values of Hg and of the
intensities are given in table 1, as well as the energy of the
intensities are given in table 1, as well as the energy of the
electrons and of the corresponding g-transitions, the identification of the lines and comparative values of earlier works.
It may be seen that the values obtained by the authors for Hg
and for the intensities differ markedly from earlier obtained
values, where a photorecording of the electrons had been employed.
Figures 1, 2, 3 and 4 represent some parts of the spectra of

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48-7-6/21

The Spectrum of the Electrons of the Internal Conversion of Active Radium-Con-

taining Thorium Deposits

III(Domain Hp = 1380 to 2700 and 3500 to 9000 Gs. cm.)

conversion electrons in the domain Hp = 1380 + 2600 Gs. cm.

3.) The conversion spectrum in the "rigid" domain. Certain lines discovered by the authors are recorded on figures 5, 6 and 7, their energies and intensities on table 2. There are 2 tables,

7 figures and 16 references, 8 of which are Slavic.

ASSOCIATION: Department of Physics, Leningrad Institute, of Railroad Transporta-

tion Engineers

(Kafedra fiziki Leningradskogo instituta inzhenerov zheleznodo-

rozhnogo transporta)

AVAILABLE: Library of Congress

Card 3/3

SOV/48-22-7-3/25

AUTHORS:

Bergeyev, A. G., Kricyuk, H. M., Latyshev, C. D.,

Vorobiyev. V. D. Kolichinskaya, T. I.

TITLE:

Tl²⁰⁸ Level Scheme (O skheme urovney Tl²⁰⁸)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya fizicheskaye, 1958,

Vol. 22, Nr 7, pp. 785-787 (USSR)

ABSTRACT:

In order to confirm and to define more precisely the spin values of the excited Tl²⁰⁰ levels, the relative intensities of α -transitions were calculated under consideration of the carried off angular momentum. It is shown that the consideration of the angular momentum of the α -particles substantially improves the consistency with experimental data. The calculated relative probabilities for α -transitions to the 0,40 and 493 keV levels for which the spins have been uniquely determined are in remarkable agreement with the experiment. This allows to attribute spin values also to those levels that have not yet been determined. For the 328 and 473 keV levels the best agreement with experimental intensities of the α -groups resulted from the 4 and 5 spin values, respectively. With these spin values, however, the missing

Card 1/2

T1²⁰⁸ Level Scheme

50V/48-22-7-3/26

y-transition between the 493 and 328 keV levels is imcomprehensible. One might expect that this transition must be of the M1 type and that a sufficiently strong line in the conversion spectrum would occur which, however, was not detected. The 328, 473, 493 and 619 keV levels are accounted for by the splitting of the configuration d 3/2 g/2, which gives a quadruplet having the spin values 3, 4, 5, 6. The spins 3 and 6 for the 493 and 619 keV levels are in agreement with such a configuration. However, the order of succession of the levels with spins 4 and 5 so far remains unexplained. There are 1 figure, 2 tables, and 12 references, 5 of which are Soviet.

ASSOCIATION:

Kafedra fiziki Leningradskogo instituta/inzhenerov zheleznodorozhnogo transporta im. V. N. Obraztsova (Department of Physics of the Institute of Railway Transportation Engineers imeni V. N. Obraztsov)

Card 2/2

Petrov, A. D., Nikishin, G. I.,

504/79-28-7-10/64

AUTHORS:

TITLE:

Vorob'yev, V. D.

The Synthesis of Undecyl- and Dodecyl Benzenes and Their Per-

hydrides(Sintez undetsil- i dodetsilbenzolov i ikh pergidryurov)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 7,

pp 1761 - 1766 (USSR)

ABSTRACT:

From the mainly foreign papers mentioned by the authors (Refs 1-15) may be seen that dodecyl benzenes with ramified alkyl chains

which serve as model hydrocarbons for the technical dodecyl benzene are only insufficiently investigated. They synthetize hydrocarbons of the composition C_{17} and C_{18} according to the

mentioned reaction schemes with a dodecyl benzene with a maximally ramified alkyl chain being obtained as final product. The selection of the given forms was caused by the intention to decide either in favor of the technical dodecyl benzenes with a highly ramified aliphatic chain, or in favor of homologs with a little ramified chain. The data obtained from the reaction schemes 1-5 for all hydrocarbons and their hydrides (solidification temperatures and kinematic viscosities at 20 and 50°)

Card 1/3

The Synthesis of Undecyl- and Dodecyl Benzenes and Their Perhydrides

SOY/79-28-7-10/64

are mentioned in the table, where also the n-dodecyl benzene synthetized by Schmidt (Shmidt) (Ref 9) is mentioned for reasons of comparison. The solidification temperatures of the alkyl benzenes and of the corresponding alkyl cyclo hexanes differ only by about 5°. Also the influence exerted by the structure on the kinematic viscosity data at 200, and especially at 500 is only small, which is, however, not the case at temperatures below 00. There are 1 table and 17 references, 3 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii Akademii nauk SSSR (

SUBMITTED:

June 20, 1957

Card 2/3

The Synthesis of Undecyl- and Dodecyl Benzene and SOV/79-28-7-10/64

Their Perhydrides

1. Benzenes--Synthesis 2. Hydrides--Chemical reactions

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860820019-6"

21 (7) AUTHORS:

807/56-35-2-6/60

Sergeyev, A. G., Vorob'yev, V. D., Remennyy, A. S., Kol'chinskaya, T. I.,

Latyshev, G. D., Yegorov, Yu. S.

TITLE:

The Influence Exercised by Finite Dimensions of Nuclei Upon the Relative Coefficients of Internal Conversion in L-Subshells (Vliyaniye konechnykh razmerov yadra na otnositel nyye koeffitsiyenty

vnutrenney konversii v L-podobolochkakh)

PERIODICAL;

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,

Vol 35, Nr 2, pp 348-354 (USSR)

ABSTRACT:

As the experimental and theoretical values of conversion coefficients agree only very badly (Refs 1 - 10), the authors undertook the task of finding out to what extent the

finite dimensions of nuclei influence these values. The

present paper contains a report on the experimental investigations concerning this influence which is exercised

on the relative conversion coefficients in L-subshells for pure M1-transitions. The following transitions were

investigated:

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The Influence Exercised by Finite Dimensions of Nuclei Upon the Relative Coefficients of Internal Conversion in L-Subshells sov/56-35-2-6/60

46,5 keV - decay: RaD $\xrightarrow{\beta}$ RaE (Bi $^{210}_{83}$)
115,1 keV ThB $\xrightarrow{\beta}$ ThC (Bi $^{212}_{83}$)
238,6 keV ThB $\xrightarrow{\beta}$ ThC (Bi $^{212}_{83}$)

The following was found for the ratio $L_{
m I}$: $L_{
m III}$: $L_{
m III}$

100 : $(10,6 \pm 0,2)$: $(0,93 \pm 0,05)$ 100 : $(10,4 \pm 0,2)$: $(0,68 \pm 0,10)$ 100 : $(10,4 \pm 0,2)$: $(0,74 \pm 0,05)$

For the first and for the 3, transition results obtained by Bashilov, Dzhelepov, Chervinskaya, and those of references 10, 11, 16, 17 have already been published; they are compared in this paper with the results obtained by the authors. Furthermore, the relative conversion coefficient for the 277.3 keV - γ -transition (M1) between two excited

levels in Pb²⁰⁸ was investigated, viz. for the levels 3474,8 keV (4⁻) and 3197,5 keV (5⁻). Here a E2-admixture

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The Influence Exercised by Finite Dimensions of Nuclei Upon the Relative Coefficients of Internal Conversion in L-Subshells 807/56-35-2-6/60

is possible. Result:

 $K:L_{I} = 6,15\pm0,3; L_{I}:L_{II}:L_{III} = 100:(12,5\pm0,6):(1,9\pm0,3)$

There are 4 figures, 3 tables, and 26 references, 11 of which

are Soviet.

ASSOCIATION: Leningradskiy institut inzhenerov zheleznodorozhnogo

transporta (Leningrad Railroad Engineers Institute)

SUBMITTED: March 6, 1958 (initially) and July 9, 1958 (after revision)

Card 3/3

PETROV, A.D.; NIKISHIN, G.I.; GRAMENITSKAYA, V.N.; YOROB'YEV, V.D.

Interaction between \(\text{D-(magnesium chloride)-tert.-butyl-benzene} \)

Interaction between \(\begin{aligned} \text{-(magnesium chloride)-tert.-butyl-benzene} \) with carbonyl compounds. Zhur.ob.khim. 28 no.9:2315-2319 \(\text{S} \) . \(\text{(MIRA 11:11)} \)

1. Institut organicheskoy khimii AN SSSR.
(Benzene) (Grignard reagents) (Carbonyl compounds)

VOROBYEV, V. D.

A. G. Sergeyev, V. D. Vorobyev, A. S. Remenny, T. I. Kolchinskaya, G. D. Latyshev and Yu. S. Yegorov

"Influence of the Finite Dimensions of the Eucleus on the Relative Conversion Coefficients in the L-Subshells"

Hucleur Physics, 9, No. 3, Jan. 1959, 198-508 (North Holland Publishing Co.,
Amsterdam)

*Paper read at the Eighth Annual Symposium on Buclear Spectroscopy of the USSR Academy of Sciences, January 1958, Leningrad.

Abstract: Measurements have been made of the relative internal conversion coefficients in the L-subshells for three pure ML transitions: 46.5 keV in Bi^{2/0}, and Ll5.1 and 238.6 keV in Bi^{2/0}. It is shown that in order to obtain agreement with the experimental data, it is necessary to take into consideration the finite dimensions of the nucleus in the theoretical calculations of the L internal conversion coefficients.

Measurements have also been made of L: LII for the 277.3 keV ML transition in Ph208.

V. N. Obraztsov Institute of Railway Engineering, Department of Physics, Leningrad

NEVOLIN, F.V., kand. tekhn. nauk; KRAL!-OSIKINA, G.A.; PETROV, A.D.; NIKISHIN, G.I., kand. khim. nauk; VOROB!YEV, V.D.

Surface activity and cleaning action of dialkylbenzenesulfonates. Masl.-zhir. prom. 25 no.7:32-36 '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Nevolin, Kral'-Osikina). 2. Chlen-korrespondent AN SSSR (for Petrov). 3. AN SSSR (for Petrov, Nikishin, Vorob'yev).

(Benzenesulfonic acid) (Surface active agents)

3200(A)

67893

AUTHORS:

TITLE:

Nikishin, G.I., Yorob'yev, Y.D.,

s/020/60/130/06/021/059

Petrov, A.D., Corresponding

B011/B015

Member AS USSR

Free-radical Addition of Alkylbenzenes to a-Olefines

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 6, pp 1256-1259

(USSR)

ABSTRACT:

The authors undertook to investigate the synthesis of alkylaromatic hydrocarbons suitable for the production of surfaceactive substances of the alkylbenzene-sulfonate type. The freeradical addition and telomerization was intended to serve this purpose. The authors found that it is possible to add toluene, ethylbenzene, cumene, p-xylene, and α -methylnaphthalene to α -olefines at 150-160 under the action of tertiary butyl peroxide. The reaction products form in a yield of 10-15% calculated with respect to the olefine used. Table 1 shows the amounts of the components used and of peroxide, furthermore yields and properties of the addition products. Besides the addition there exists obviously a competitive reaction - the substitution of the α -hydrogen atom in the olefines by the

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Free-radical Addition of Alkylbenzenes to α -Olefines

S/020/60/130/06/021/059 B011/B015

free radicals. Due to the bromine numbers, the percentage of unsaturated compounds in the products of addition to the olefines amounts in the case of toluene to 16-19, ethylbenzene to 28, p-xylene to 4-6, α-methylnaphthalene to 50%. Besides, in all experiments crystalline dimerization products of the free radicals were obtained: dibenzyl, 3,4-diphenylbutane, 3,4-dimethyl-3,4-diphenylbutane, di-p-xylyl. The authors initiated the reaction of ethylene with toluene at 200-220° and under a pressure of 140 atm by tertiary butyl peroxide. They found that a telomerization takes place under these conditions. Monoalkylbenzenes form. The resulting first members of the telogene homologs (propylbenzene, amylbenzene, etc) may in turn be used as telogenes. This leads to the formation of secondary, and obviously tertiary alkylbenzenes. The authors obtained five individual hydrocarbons (Table 2) from the reaction mass by distillation. The separation of higher-molecular alkylbenzenes is rendered more difficult since the number of isomers and homologs with similar boiling points rises with the molecular weight. Table 3 shows the composition of the reaction mass according to fractions after the removal of heptylbenzene

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Free-radical Addition of Alkylbenzenes to α -Olefines

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and the products with a low boiling point. The content of the fractions of CH₂- and CH₃-groups was determined by means of infrared spectra. The mean error of measurement amounted to ~3%. Ye.D. Lubuzh carried out the measurements. There are 2 tables and 4 references, 1 of which is Soviet.

ASSOCIATION:

Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

November 4, 1959

Card 3/3

NIKISHIN, G.I.; VOROB'YEV, V.D.; PETROV, A.D.

Free-radical addition of primary alcohols to color: self-addition of primary alcohols to color: self-addition-nauk no.5:882-886 My '61.

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Alcohols) (Olefins) (Radicals (Chemistry))

NIKISHIN, G.I.; VOROB'YEV, V.D.; PETROV, A.D.

Free-radical addition of alcohols to acrylic acid and its methyl ester. Synthesis of y-lactones. Dokl. AN SSSR 136 no.2:360-363 '61. (MIRA 14:1)

1. Institut organicheskoy khimii imani N.D. Zelinskogo Akademii nauk SSSR. 2. Chlen-korrespondent AN SSSR (for Petrov)/
(Acrylic acid) (Radicals (Chemistry))
(Lactones)

MIKISHIN, G.I.; VOROB'YEV, V.D.

Free radical addition of primary alcohols to unsaturated alcohols. Izv. AN SSSR. Otd.khim.nauk no.5:892-897 My '62. (MIRA 15:6)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Radicals (Chemistry)) (Alcohols)

NIKISHIN, G.I.; YQROB'YEV, V.D.

Synthesis of \(\text{-nonalactone} \) and \(\text{-undecalactone} \). Izv. AN SSSR.0td. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Lactones)

NIKISHIN, G.I.; VOROB'YEV, V.D.

Free radical addition of low-molecular alcohols to unsaturated compounds. Izv. AN SSSR. Ser. khim. no. 5:894-897 My 164. (MIRA 17:6)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

C4/20-00 ENT(m)/ENP(j) IJP(c) RM ACC NR. AP6009511 SOURCE CODE: UR/0413/66/000/005/0020/0021 Ivanova, V. A.; Genkin, N. D.; Vorob'vev. V. D. Ginzburg, B.G.; Zharavin, K. N.; Korchilava, Ye. Ya.; Savost 'yanova, N. ORG: none **4**3 13 Preparation of Captax-2-mercaptobenzothiazole. No. 179306 announced by the Scientific Research Institute of Organic Semifinished Products and Dyes and the Berezniki Plant of Aniline Dyes (Nauchno-issledovatel'skiy institut organicheskikh poluproductov i krasiteley i Bereznikovskiy anilinokrasochnyy zavod)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, TOPIC TAGS: captax, mercaptobenzothiazole, aniline, aniline dye ABSTRACT: An Author Certificate has been issued describing a method for preparing Captax-2-mercaptobenzothiazole by melting aniline, sulfur, nitrobenzene, carbon bisulfide at elevated temperatures and pressure, followed by dissolving the melt in a water solution of alkali hydroxide or milk of lime, purifying the solution obtained and separating the product. To improve the quality of Captax, decontaminate the waste water and make it possible to use the solution Card 1/2 UDC: 547.789.6,2.07

· =	the solvent by cor SUBM DATE: 08 Aug 64	roduction of sulfuramide tion with benzene polych ter emulsions, followed eventional methods.	by removal [LD]
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Calculating the temperature of a two-layer well of the compartment of a structure in case of in time varying external conditions of heat transfer. Frikl.mekh. 1 nc.7:14-20 '65.

(MIRA 18:8)

1. TSentral'nyy aerogidrodinamicheskiy institut.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860820019-6"

VOROB'YEV, Yuriy Fedorovich; GLADKOV, I.A., doktor ekon. nank,

[Equalizing the levels of economic development of the
Union Republics] Vyravnivanie urovnei ekonomicheskogo
razvitila soiuznykh respublik. Moskva, Izd-vc "Nauka,"
1965. 213 p. (MIRA 18:3)

TIKKOYEV, V.A.; SERDYUK, N.F.; SAPUTO, M.P.; GORISHNIY, Ya.I.; VOROB'YEV, W.F.; GUNDZILOVICH, A.A.; PRIVALOV, V.G.; MARIN, V.I.; LEVCHENKO, R.S.

The best in the profession. Put' i put.khoz. 6 no.12:4-9, 11, 16-17 '62. (MIRA 16:1)

1. Zamestitel' nachal'nika Petrozavodskoy distantsii puti Oktyabr'skoy dorogi (for Tikkoyev). 2. Nachal'nik Solvychegodskoy distantsii Severnoy dorogi (for Serdyuk). 3. Nachal'nik Shchorsskoy distantsii puti Yugo-Zapadnoy dorogi (for Saputo).

4. Nachal'nik Kotovskoy distantsii puti, Odesskoy dorogi (for Gorishniy). 5. Nachal'nik Sverdlovsk-Passazhirskoy distantsii puti Sverdlovskoy dorogi (for Vorob'yev). 6. Nachal'nik L'govskoy distantsii puti Moskovskoy dorogi (for Marin).

7. Zamestitel' nachal'nika Shar'inskoy distantsii Severnoy dorogi (for Levchenko).

(Railroads-Employees)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860820019-6"

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820019-6"

VOROB'YEV, V.F. Experience in the binding of tie ends. Put' i put. khoz. 7 (MIRA 16:7) no.6:27 163.

1. Nachal nik Sverdlovsk-Passashirskoy distantsii, Sverdlovskoy dorogi. (Railroads—Ties)

VOROB'YEV, V.F.; KOLOMIYTSEVA, O.I., red. ...

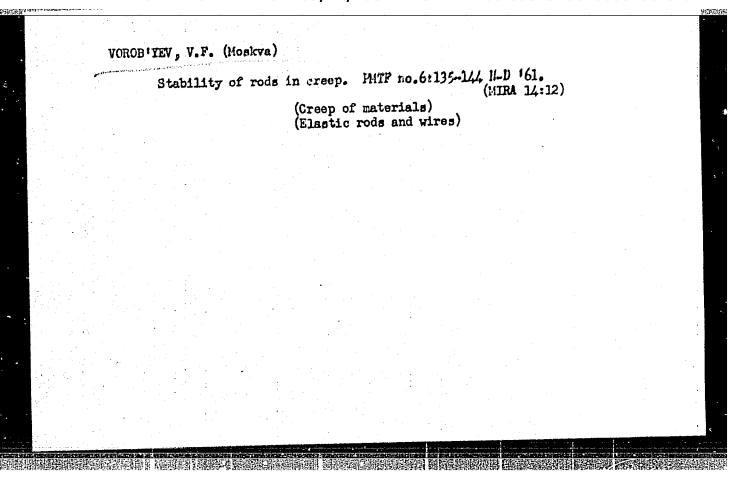
[Electrification in socialist agriculture] Elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva. Moskva, Goskul'tprosvetizdat, 1954. 55 p. (MIRA 16:9) (Electricity in agriculture)

	"Accounting and the operational analysis of metallurgical plants" by A.I. Valuev, A.A. Skorokhodov. Stal: 22 no.3:274-275 (MIRA 15:3) fr 162. (Metallurgical plants—Accounting)												
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VOROB'YEV, V.F., inzh.; STANISLAVSKIY, L.Ya., inzh.; CHEBYKIN, G.A., inzh.

Study of the heating-up of turbogenerator parts with direct cooling of the copper by hydrogen. Vest. elektroprom. 32 no.7: 16-25 Jl '61. (MIRA 14:10)

(Turbogenerators--Cooling)



31640 8/207/61/000/006/016/025 A001/A101

10.7300 also 1913

AUTHOR: Vorob'yev, V. F. (Moscow)

TITLE: Stability of rods in the creep state

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1961, 135 - 144

TEXT: The author considers the problem of determining the limiting service time ("critical time") of a compressed-bent rod under conditions of creep. It is assumed that prior to application of a load the rod has a small buckling and the rod is loaded with a longitudinal compressive force whose magnitude is less than its critical value in the problem of elasticity and a transverse load of some intensity being a function of the x-coordinate counted along the rod length. The mathematical formulation of the problem leads to an integro-differential equation which describes the behavior of buckling with time. On simplifying equation which describes the distribution of stresses over the cross section of the conditions concerning the distribution of stresses over the cross section of the conditions concerning the distribution of stresses over the cross section of the solved by using Galerkin's method; the critical time, counted from the instant of applying the full load to the failure of the rod, is determined.

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21112

s/187/60/000/012/001/005 D035/D113

6.6000

AUTHOR:

Frequency modulation system for a television signal recorder Vorob'yev, V.F.

using a magnetic tape TITLE:

Tekhnika kino i televideniya, 1960, no. 12, 1-12

TEXT: The author discusses the results obtained during theoretical and experimental investigations of a frequency modulation system for a TV signal PERIODICAL: tape recorder. The system, which was described at a Republican conference held in Kiyev in 1960 in honor of "Radio Day", includes a modulator, a demodulator, and a pulse-shaping amplifier. The effect of the following specific operating conditions of the system are investigated: the proximity of the carrier frequency to the video signal's highest frequencies, the low modulation index, and the mutual overlapping of the spectra of the modulating and modulated signals. Distortions occurring in the described system are discussed and methods for reducing them are suggested. The described modulation system has the following properties: (a) it has a very low carrier Card 1/2

27/112

8/187/60/000/012/001/005 D035/D113

Frequency modulation system ...

的对比对我们的自己的对比,但是不是不是一个人的,但是我们的对比较级的,我们就们还是这么一个一个

frequency close to the upper limit of the video frequency band; (b) the frequency deviation is lower than the highest video signal frequency, i.e. at the highest video frequencies the modulation is conducted with a very low index; (c) it has a vestigial sideband. In order to show that such a transmission is possible, the author investigated and analyzed the frequency spectrum of the modulated signal and found that the residual non-suppressed part of the upper sideband should not be less than the instantaneous frequency band. The demodulator used in the system operates on a two-channel (phase) circuit with a long line. Its spurious amplitude modulation limiter consists of 2 equal units, each containing 5 tubes. There are 11 figures and 8 Soviet-bloo references.

Card 2/2

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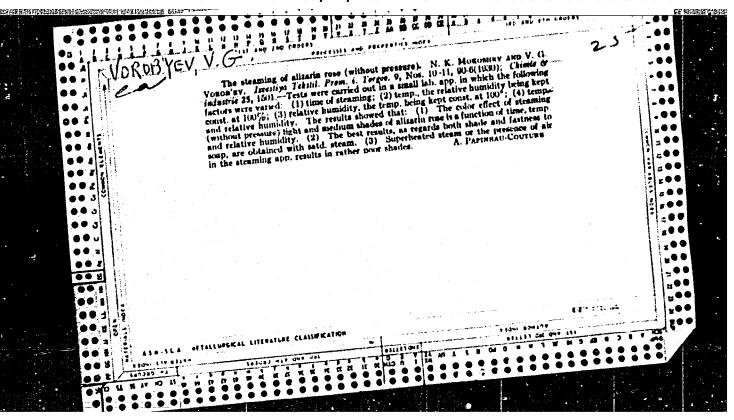
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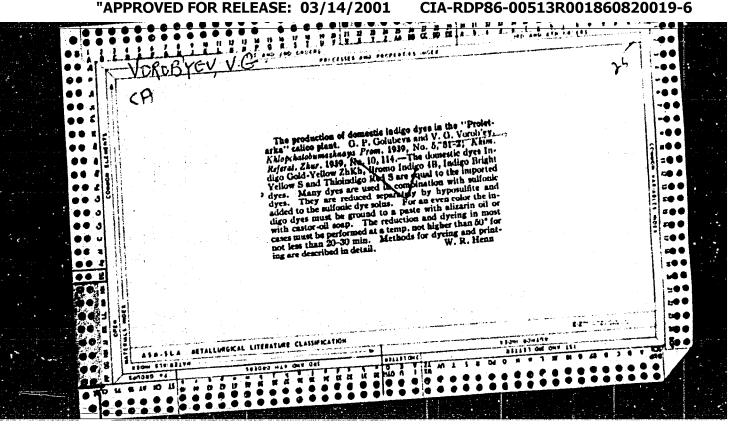
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USENKO, I.M.; YOROB'YEV, V.G. Experience in studying fundamentals of industrial production.

Politakh abuch, no.12:24-27 D 58. (MIRA 11:12) Politekh.abuch. no.12:24-27 D 58. 1. Srednyaya shkola No.45, st.Kavkazskaya Severo-Kavkazskoy shelesnoy dorogi.
(Technical education) (Field work (Educational method))

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VOROBIYEV, V. G.

"Temperatures of Martensitic Transformation and Their Significance in the Treatment of Steel." Themis for degree of Cand. Technical Sci. Sub 25 Nov 49. Sci Res Inst of Technology and Organization of the Aviation Industry

Summary 82, 16 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

VOROB'YEV, V.G.

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 343 - I

PHASE I

call No.: TN672.V8

BOOK

Author: VOROB'YEV, V. Q.

Author: VOROB'YEV, V. Q.

Full Title: INFLUENCE OF TEMPERATURE OF MARTENSITE POINT ON PROCESS

Full Title: INFLUENCE OF TEMPERATURE OF STEEL AT TREATMENT OF TRANSFORMATION AND PROPERTIES OF STEEL AT TREATMENT Full Title:

Vliyaniye temperatury martensitnoy tochki na khod prevrashcheniya i svoystva stali pri obra-BY COOLING Transliterated Title:

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VSESOYUZNOYE NAUCHNOYE INZHENERNO-No. pp.: 17 TEKHNICHESKOYE OBSHCHESTVO MASHINOSTROITELEY. URAL'SKOYE OTDELENIYE, Date: 1950 THERMAL TREATMENT OF METALS - Symposium of Conference (Termicheskaya This is an article from the book: THERMAL TREATMENT OF METALD - Dympoblum of Contesting See AID 223.II obrabotka metallov, materialy konferentsii) (p.111-127) see AID 223.II Text Data The systematic study of the martensite transformation is specifically related to the Mr point and the concentration of carbon and other allowers components. of carbon and other alloying components. The study was Coverage:

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CIA-RDP86-00513R001860820019-6" VOROBJEV, V. G.

Obrabotka stali pri temperaturakh nizhe mulia. (Vestn. Mash., 1951,

no. 2, p. 42_46)

Includes bibliography.

(Steel treatment at temperatures below zero.)

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

Journal of the Iron and Steel

VOROB YEV, V.G.

Institute

Mar. 1954 Metallography

Vol. 176 Part 3

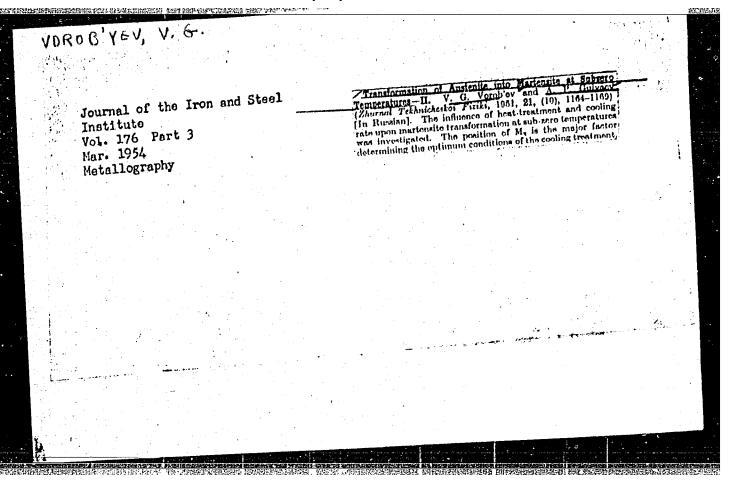
Influence of Alloring Flements upon Martensite Transformation. Tamperatures.

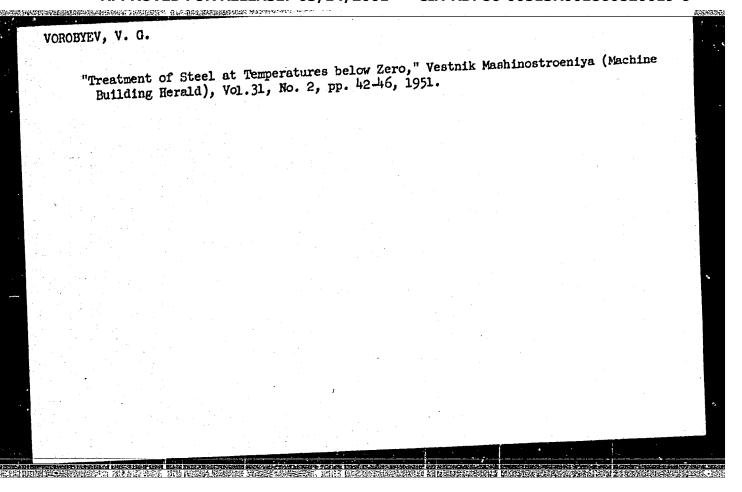
(Zhurnal Teknucheskoi Fizitt, 1951, 21, (10), 1167-1163). The influence of the alloying elements, manganese, nickel, chromium, and molybdenum on the temperature range of the martensite transformation was investigated. For comparison, carbon steels containing from 0.6 to 1.0% of carbon were taken. For the initial and final points of the martensite transformation, the temperatures at which 1% and 99% of martensite had formed were taken. Martensite transformation was followed by magnetic measurements, metallographic analyses, and hardness measurements. The experimental results are presented by graphs.—v. d.

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TOROB'YEV, V.G., kandidat tekhnicheskikh nauk; OELLER, Yu.A., reCARTOF, ORADKIKH, N.N., tekhnicheskiy redaktor.

[Heat treatment of steel at below zero temperatures] Termicheskaia
obrabotka stali pri temperature nizhe nulia. Moskva, Gos. izd-vo
oboronnoi promyshl., 1954. 305 p.

(Steel--Heat treatment)

(Steel--Heat treatment)

lorob'yEV

32-7-14/49

The Classification of the Particular Features of Metals and Alloys of Polyhedrical Structure which are Subjected to Microscopical

(Klassifikatsiya osobennostey poliedricheskoy struktury metallov Examination.

i splavov, nablyudayemoy pod mikroskopom.-Russian) Zavodskaya Laboratoriya, 1957, Yol 23, Hr 7, pp 808-811 (U.S.S.R.)

PERIODICAL

ABSTRACT

The boundary layer of the grain of a crystal differs according to its chemical composition, crystallographic structure, and energetic characteristics from the rest of the crystal mass. These crystal boundaries are usually a place of accumulation or separation of certain phases which exercises a very great influence upon the physical-mechanical, chemical, and other properties of alloys. A scale of classifications is set up on this basis, which facilitates rapid determination of the metals and alloys to be investigated. This system of classification refers to the third stage of localizationto the grain. A scale worked out upon this basis provides a general characteristic of granular structure. The so-called form factor serves the purpose of evaluating structure: i.e. the number of nonuniforms grains. Accordingly, the curve of the distribution of these non-uniform grains in the field of the remaining mass is plotted for the purpose of investigating the microstructure of the metals and alloys. The second group of parameters refers to the constructional properties of the boundary grain layer and to the ac-

Card 1/2

The Classification of the Particular Features of 32-7-14/49
Metals and Alloys of Polyhedrical Structure which are Subjected
to Microscopical Examination.

cumulation of its dispersive phases. The third group of parameters of the scale refers to the evaluation of the orystallite edge (facets) as well as that of the intergranular phase characteristic. The fourth group of factors describes metallographically the dividing boundary of several grains as well as their characteristic viding boundary of several grains as well as their characteristic features and reciprocal orientation of boundary surfaces. A microscopical morphology chart of granular structure is attached to this review.

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Vurobyev, V.G.

129-3-7/14

AUTHOR: Vorob'yev, V.G., Candidate of Technical Sciences.

TITIE: On the Variation with Time of the Mechanical Properties in the Case of Internal Transformations (O vremennom izmenenii mekhanicheskikh svoystv pri vnutrennikh prevrashcheniyakh)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, No.3, pp. 35 - 38 (USSR)

ABSTRACT: Evaluation of literary data leads to the assumption that the ductility of a material increases in the case of various internal transformations inside metallic systems. Such phenomena are observed in non-ferrous metals, engineering and phenomena also take place in other systems. It can be assumed phenomena also take place in other systems. It can be assumed that during the process of structural transformations of crystalline bodies, their mechanical properties may change appreciably compared with the properties of the initial and final states; these manifest themselves by softening and increase in the ductility. Such changes are temporary and reversible. For verifying the wide range of validity of these relations, the author considered it useful to test the validity of these relations, relations under conditions excluding diffusion, for instance,

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On the Variation with Time of the Mechanical Properties in the Case of Internal Transformations the

at very low temperatures. The author investigated/steels XC and X120, which were hardened from various temperatures so as to ensure differing degrees of dissolution of the carbide phase and to obtain austenite of various concentrations with non-uniform stability during cooling in the martensite range. The main part of the transformations proceeded at low temperatures, i.e. excluding, almost completely, diffusion. The ductility during the process of transformation of the supercooled austenite and of martensite was investigated by measuring the sag of cylindrical specimens of 10 mm diameter with an effective length of 125 mm, and a maximum rated bending stress of 10 kg/mm2. The loaded specimens were cooled first in vapours and then directly in liquid nitrogen; the quantity of the transformed austenite was determined by means of an For both steels, the results of the experiments confirmed the above made assumptions. The results indicate that some of the existing views relating to the theory and practice of heat treatment have to be revised; for instance, the possibility of straightening steel components for a certain period after hardening in a hot medium is apparently Card2/3 not due to ductility conserved by the austenite but to the

129-3-7/14 On the Variation with Time of the Mechanical Properties in the Case of Internal Transformations

ductility of the steel as a heterogeneous system during the process of austenite into martensite transformation. There are 2 figures and 9 Russian references.

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AUTHOR:

Vorob'yev, V.G.

sov/19-58-6-681/685

TITLE:

A Pneumatic Device for Binding Bars With Wire, for Instance Bars for Prestressed Reinforcement Frames for Concrete Pipes (Pnevmaticheskoye ustroystvo dlya vyazki provolokoy sterzhney, naprimer, predvaritel no napryazhennykh armaturnykh karkasov

zhelezobetonnykh trub)

PERIODICAL:

Byullten' izobreteniy, 1958, Nr 6, pp 151-152

(USSR)

ABSTRACT:

Class 87a, 21. Nr 113883 (584297 of 8 Oct 1957). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A compressed air-driven device, with two parallel air cylinders. One piston rod bears tweezers for clamping wire and passing it through a bending head around the bar and forming a loop, which is then cut off by pliers, actuated by a mechanism driven by the second piston rod, the latter mechanism

Card 1/2

SOV/19-58-6-681/685 A Pneumatic Device for Binding Bars With Wire, for Instance Bars for Prestressed Reinforcement Frames for Concrete Pipes

cutting and twisting the wire. The wire-cutting and twisting mechanism is a rotating bushing with wedged inner surfaces, pushed forward by a shell on the second piston rod.

Card 2/2

PHASE I BOOK EXPLOITATION

SOV/2720

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Spravochnik po mashinostroitel'nym materialam. tom 1: Stal' (Handbook on Machine-building Materials. Vol 1: Steel) Moscow, Mashgiz, 1959. 907 p. Errata slip inserted.

32,000 copies printed.

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Scientific Eds.: V.G. Vorob'yev, Yu. M. Lakhtin, S.G. Rakhshtadt, and S.L. Rustem; Ed. of this Vol.: Yu.A. Geller, Doctor of Technical Sciences; Ed.: G.I. Pogodin-Alekseyev; Ed. of Publishing House: G.A. Molyukov, Engineer; Tech. Ed.: T.F. Sokolova; Managing Ed. for Reference Literature (Mashgiz): I.M. Monastyrskiy, Engineer.

PURPOSE: This handbook is intended for engineering and technical personnel in production departments, laboratories, and construction and design offices. It may also be useful to teachers and students of tekhnikums and vtuzes.

COVERAGE: The material presented in this first wolume is based on State Standards, technical specifications, and generally accepted

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VOROB'YEV. V.G., kand.tekhn.nauk

Anomalous characteristics of metal materials during the course of their internal transformations and the technical value of these characteristics. Izv.vys.ucheb.zav.; mashinostr. no.8:120-131 160. (MIRA 13:9)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana. (Hetals—Testing) (Metallography)

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VOROBIYEV, V.G.

Decreased sensitivity and reactivity of the circulatory apparatus to pressor catechol amines under the effect of phenitron in rats with renal hypertension. Farm. i toks. 27 no.4:424-427 J1-Ag '64. (MIRA 17:11)

1. Kafedra farmakologii (zav. - prof. A.N. Kudrin) farmatsevticheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

ACC NR: AP6031837

SOURCE CODE: UR/0129/66/000/007/0008/0011

AUTHOR: Vorob'yev, V. G.; Lokshin, I. Kh.;

ORG: ENIMS

Title: Using vibratory-thermal treatment to reduce residual internal stresses in metal work

parts

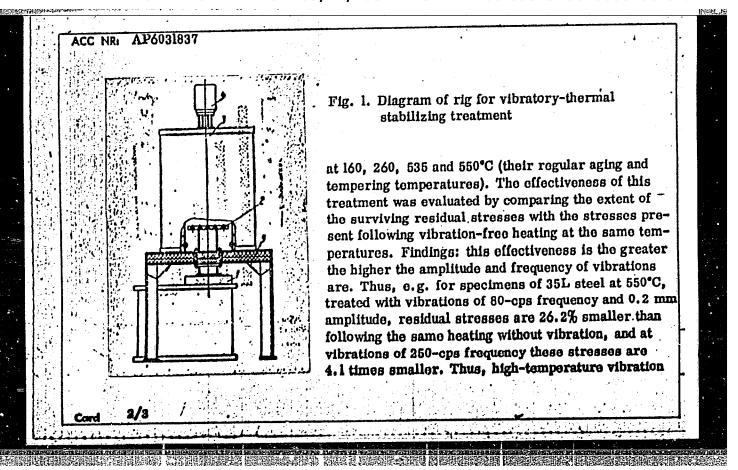
SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 7, 1966, 8-11

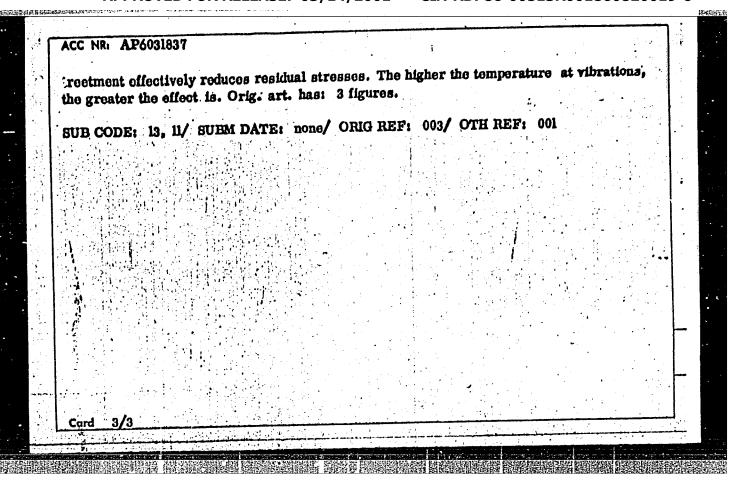
TOPIC TAGS: mechanical vibration, vibration effect, high temperature effect, internal stress stress relaxation / 35L alloy, AL9 alloy, AL2 alloy

ABSTRACT: On the assumption that the effectiveness of the vibration treatment of castings for precision machine tools must increase when it is combined with heating in order to accelerate relaxation stresses, the authors performed appropriate experiments on using a specially designed test rig (Fig. 1) consisting of ST-300electromechanical vibration stand 1, support 2, bell furnace 3 with ventilator 4, and welded frame 5 whose refractory-lined surface (tabletop) supports the furnace. The frequency range of the vibration stand is from 80 to 300 cps. Specimens cast from 35L, AL9 and AL2 alloys were vibration-treated in this device for 1.5 hr

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UDC: 539.373:621.787/788





L 29613-66 EEC(k)-2/EVIT(d)/FSS-2 EC

ACC NR, AP6010779 SOURCE CODE: UR/0146/66/009/001/0119/0124

AUTHOR: Vorob'yev, V. G.; Sol'nitsev, R. I.

SS B

ORG: Leningrad Electrotechnical Institute im. V. I. Ul'yanov (Leningradskiy elektrotekhnicheskiy institut)

TITLE: Simulation of nonlinear gyroscopic systems

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 1, 1966, 119-124

TOPIC TAGS: gyro, gyroscope system, gyroscope motion equation

ABSTRACT: A simulation method combined with a method of harmonic linearization is suggested for investigating nonlinear gyro systems. Some motion parameters obtained on a simulator are substituted into the implicit equations that connect motion parameters and instrument parameters. Other motion parameters determined analytically are used as checks for the simulation results. Thus, the formulas resulting from the harmonic linearization serve to determine the direction of further simulator studies intended to find optimal instrument parameters. The above approach requires evaluation of the simulation error, particularly in the problem of the stability range in the controllable-parameter space and in the problem of gyro drift due to small disturbances. The above method is illustrated by numerical example of a two-gyro single-axis gyrostabiliser mounted on a fixed base. Orig. art. has: 3 figures and 16 formulas.

Card 1/1 SUB CODE: 17 / SUBM DATE: 24Jul64 / ORIG REF: 002

UDC: 531.383

FEDOSEYEV, A.N.; VOROB'YEV, V.G.; GAVRILOVA, A.D.

Action of catechol amines, phenitrone and vetrazin on the vessels of a isolated kidney in dogs with atherosclerosis. Pat. fiziol. 1 eksp. terap. 9 no.5:61-63 S-0 '65. (MIRA 19:1)

1. Institut morfologii cheloveka (direktor - deystvitel'nyy chlen AMN SSSR prof. A;P. Avtsyn) AMN SSSR i kafedra farmakologii (zav. - prof. A.N. Kudrin) farmatsevticheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. Submitted June 30, 1964.

VOROB'YEV, V.G.; FEDOSEYEV, A.N.; GAVRILOVA, A.D.

Change in vascular reactions of the isolated heart of dogs with experimental atherosclerosis following a single administration of adrenalin, fenitron and vetrazin. Pat. fiziol. i eksp. terap. 8 no.1:46-49 Ja-F *64. (MIRA 18:2)

1. Institut morfologii cheloveka (dir.- chlen-korrespondent AMN SSSR prof. A.P. Avtsyn) AMN SSSR i kafedra farmakologii farma-tsevticheskogo fakul'teta (zav.- prof. A.N. Kudrin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova, Moskva.

Plasticity of hardened steels during martensite transformations at temperatures of lower than zero digree C. 1zv. AN SSGN. Met. i gor. dele no.1:129-135 Ja-7 '64. (MPRA 17:4)

ACCESSION NR: AP4019813

\$/0279/64/000/001/0129/0135

AUTHOR: Vorob'yev, V. G. (Moscow)

TITLE: Plasticity of hardened steels during martensitic transformation below CC

SOURCE: AN SSSR. Izv. Metallurgiya i gornoye delo, no. 1, 1964, 129-135

TOPIC TAGS: hardened steel, martensitic steel conversion, low temperature \text{\text{martensitic steel conversion, steel ductility, hardened steel ductility, steel KhG, steel Kh12F1, steel Kh15N9Yu, steel plasticity

ABSTRACT: A detailed study was made of the increase in plasticity of hardened steels at temperatures below OC, where the effect of diffusion is practically excluded. Test specimens of hardened tool steels KhG and Kh12Fl (diameter 4-6 mm, gage length 60 mm), as well as of intermediate grade steel Kh15N9Yu (strips, gage length 100 mm, cross-section 2 x 10 mm), were subjected to preliminary heat treatment, then clamped in the test unit chuck, stressed and placed in a cooler. Results are presented in tabular form and indicate an increase of about 100% in the effective plasticity of very hard steels during intensive martensitic conversion at temperatures substantially below room temperature. The modulus of kinetic plasticity Ek is apparently largely unaffected by the stress load value within the limits of the study. Kinetic plasticity is weak when the

ACCESSION NR: AP4019813

relative mass of the converting phase is comparatively small. Effects of austenite stabilization can be seen in steel Kh15N9Yu. E'k is near 2000 kg/mm² soon after normalization, and restenitic stabilization after 10-12 days of aging increases that value to about 2400 kg/mm². Two areas of practical use can be indicated so far for the "low temperature" kinetic plasticity of steel: straightening of parts and instruments deformed in hardening; and cold stamping, bending or drawing pieces of complex skape. Orig. art. has: 6 graphs, 1 table and 1 formula.

ASSOCIATION: none

SUBMITTED: 17Apr63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 005

OTHER: 004

Card 2/2

SIDOROV, A.N.; VOROBIYEV, V.G.; TERENIN, A.N., akademik

Spectral study og the photoreduction of tetraphenylporphine.

Dokl. AN SSR. 152 no.4:919-922 0 '63. (MIRA 16:11)

VOROB'YEV, Vladimir Grigor'yevich; RAKHSHTADT, A.G., otv. red.; NIKOLAYEVA, T.D., red.; PAVLOVA, V.A., takhn. red.

[Theory of heat resistance. Heat resistant steels and alloys] Teoriia zharoprochnosti. Zharoprochnye stali i splavy; lektsiia dlia studentov mashinostroitel! mykh spetsial! nostei, izuchaiushchikh kurs "Metallovedenie i termicheskaia obrabotka," i dtudentov metallurgicheskogo fakul! teta, izuchaiushchikh kurs "Termicheskaia obrabotka." Moskva, Gos.izd-voskysshaia shkola, "1961. 74 p. (MIRA 16:4) (Steel, Keat-resistant) (Heat-resistant alloys)

VOROB'YEV, Vladimir Grigor'yevich, kand. tekhn.nauk; FRIGER, I.V., inzh., red.; FREGER, D.F., red. izd-va; GVIRTS, V.L., tekhn. red.

[Preventing deformations of heat-treated parts in the manufacture of machinery and instruments]Preodolenie deformatsii termoobrabatyvaemykh detalei v mashino- i priborostroenii; stenogramma lektsii, prochitannoi v IDNTP na zamiatii seminara po metallovedeniiu i termicheskoi obrabot-ke. Leningrad, 1962. 47 p. (Leningradskii dom nauchnotekhnicheskoi propagandy. Seriia: Metallovedenia i termicheskaia obrabotka, no.8)

(MIRA 15:8)

S/145/60/000/008/007/008 D211/D304

AUTHOR:

Vorob'vev. V.G., Candidate of Technical Sciences

TITLE:

Anomalous properties of metallic substances during in-

ternal changes, and their technical significance

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroye-

niye, no. 8, 1960, 120 - 131

The author gives a survey of literature and describes as an example the properties of kinetic plasticity of steel during thermal treatment. Technical prevention of buckling is stated to depend on the knowledge of these kinetic properties. There are 9 figures and 26 references: 20 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: Andrade, Nature, 162, 410, 1948; E.C. Ellwood, The Journal of the Institute of Metals, 80, 5, 217, 1952; J.H. Westbrook, Journal of the Electrochemical Society, 104, 6, 369, 1957.

ASSOCIATION: MVTI im. N.E. Baumana (MVTU im. N.E. Bauman) SUBMITTED: June 9, 1959

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