新兴的法律会变得自由

CIA-RDP86-00513R001137

\$/020/62/141/006/050/054 15/1500 \$1.20 Mikol'skiy, V. G., Buben, N. Ya. AUTHORS : Plastification of polyethylene in low-temperature radiolysis TITLE: Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962, 1406-1408 PERIODICAL TEXT: The temperature effect on the structural changes in irradiated polyethylene was evaluated from the luminescence curve recorded with a photomultiplier. High-pressure polyethylene was irradiated at 77°K with fast electrons (1 - 70 Mrsd) and then heated at a rate of 20°C/min to 300°K. It was found that increasing the irradiation dose shifted the maximum of luminescence toward lower temperatures. T designating 10 also the vitrification point of polyethylene, was reduced by $\sim 40^{\circ}$ C when the dose was raised from 1 to 70 Mrad. When ifradiction with 20 Mrad was repeated using the same dose under otherwise equal conditions, T shifted elightly toward higher temperatures owing to crosslinking induced by the first irradiation (Vysokomolek. coyed., 4, no. 6 (1962)). T shifted toward lower temperatures if the second dose was higher than the first. Card 1/2

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| F148 5111C4 51 | on of polyethylene in | B144/B186 | | |
| cannot diffue rate was prov 0.5 and 4 Mrs 50°C/min, the 4 Mrad was 4 was observed plustifying r point was rea yoint, while | ena are due to plastification light hydrocarbons which are se at 77°K. The interdepend wed by heating 60μ thick poly ad, at different rates. When devitrification temperature -6° C lower than that of the with a heating rate of 5° C/m radiolytic products were different ached. Thus crosslinking less plastification increases the action temperature. There are | e produced in the ence of diffusion yethylene camples, reae, at a heating of the camples in 0.5 Mrad camples, ain. Thus with slo fused before the visit de to a higher visit | radiolysis, but rate and heating irradiated with rate of 40 - rradiated with no difference by heating the itrification | f |
| ASSOCIATION | Institut khimicheskoy fizik of Chemical Physics of the | i Akademii nauk SS Academy of Science | SR (Institute | |
| PRESENTED: | July 19, 1962, by V. M. Kon | | • | - |
| SJENITTED: | July 16, 1962 | | | • |
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| -195K), the oxidation rate of perature is changed from 120 of the radicals in the sample the alkyl madicals during the at Granu-thansition temperatur ments - (H sub 2 -). During ted in the crystalline state, down to melting temperature. equilibrium concentration of the amorpheus state. ASSOCIATION: Institut khimic cel Physics, Academy of Scien | es undergoes no essential chu s heating of irradiated sampl ire, 150 to 155 X (releasing the heating of hydrocarbons an analogous exidation of t This is apparently associat exygen in the crystalline ph | the summary concent ange. Rapid oxidat les of polyethylene the mobility of the which had been irre- the radicels did not led with the fact the mass is much lower is | tration ion of begins 0 80g- adia- t occur hat the han in |
| SUEHITTED: 22Jan63 | DATE ACQ: 12Jun63 | ERCL: 00 | |
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ACCESSION NR: AT4020701

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\$/0000/63/000/000/0100/0106

AUTHOR: Bel'govskiy, I. M.; Kravchuk, I. P.; Nikol'skiy, V. G.; Yenikolopyan, N. S.

TITLE: Low-temperature radiation-induced polymerization of isobutylene

SOURCE: Karbotsepny*ve vy*sokomolekulyerny*ve soyedinenive (Cerbon-chein mecromoleculer compounds); sbornik statev. Moscow, Izd-vo AN SSSR, 1963, 100-106

TOPIC TAGS: polymerization, radiation polymerization, isobutylene, low-temperature polymerization

ABSTRACT: In order to clarify the degree to which the reaction proceeds via an ionic mechanism, the kinetics of the radiation polymerization of isobutylene over a temperature range of -40 to -1960 were investigated. With respect to lowtemperature radiation polymerization, the following conclusions could be drawn: The independence of the polymerization yield of the intensity of the dose indicates a linear relationship between the polymerization rate and the radiation intensity. The polymerization of isobutylene in the liquid phase is accelerated by a decrease in temperature down to the freezing point of the monomer. The reaction rate has an activation energy of 2.5 kcal/mol. In the solid phase, the reaction rate has a normal temperature dependence with an apparent activation energy of Cord 1/2

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| stage of irradiation and t dose of radiation is incre mum value during the initi | num rate of polymerization is ob the process shows a tendency to lased. The molecular weight of al stage of irradiation, after H0; thereafter it is essentially is and 5 figures. | become saturated as the the product has a maxi- which it drops capidly |
| ASSOCIATION: Institut khi An SSSR) | micheskoy fiziki AN SSSR (Instl | tute of Chemical Physics, |
| SUBMITTED: 26Apr62 | DATE ACQ: 20Kar64 | ENCL: 00 |
| SUB CODE: OC | NO REF SOV: 005 | OTHER: 005 |
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| ACIESBICH NR: AP3000136 | | |
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| During subsequent thewing times weaker than that of that the concentration of exposure does not substan | ly drops and can be reduced by approximately 100 times. ten and the color acquired during radiolysis disappears. , the whitened test samples have a glean which is many samples which were not subjected to light. It was shown radicals in the sample (according to EPR data) during thally change. Test samples of polyethylene, subjected to at 100K and consequently containing approximately 10 sup | |
| lundrescence of organic c during recombination of a samples during radiolysis | e also studied. The findings indicate that radio-thermo- ompounds is not associated with the evolution of energy lkyl or aromatic free radicals. The coloring of organic , which is characteristic for them from photo- and thermo- ly determined by the processes of stabilization and re- | |
| during recombination of a samples during radiolysis luminescence, are primari combination of charges. | e also studied. The findings indicate that radio-thermo- ompounds is not associated with the evolution of energy lkyl or aromatic free radicals. The coloring of organic , which is characteristic for them from photo- and thermo- ly determined by the processes of stabilization and re- | • |
| during recombination of a samples during radiolysis luminescence, are primari combination of charges. ASSOCIATION: Institut kh | e also studied. The findings indicate that radio-thermo- ompounds is not associated with the evolution of energy lkyl or aromatic free radicals. The coloring of organic , which is characteristic for them from photo- and thermo- ly determined by the processes of stabilization and re- | |
| ASSOCIATION: Institut kh Physics, Academy of Scien | e also studied. The findings indicate that radio-thermo- ompounds is not associated with the evolution of energy lkyl or aromatic free radicals. The coloring of organic , which is characteristic for them from photo- and thermo- ly determined by the processes of stabilization and re- imicheskoy fiziki Akademii nauk SSSR (Institute of Chemical ces SSSR). | |

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| low-temperature radiolysis, with er band. It is concluded that deep el carbons during low-temperature radio alkyl radicals. The dominant stabi place during incipient radiolysis, of organic compounds cannot be expl electrons from traps. Orig. art. h | lectron traps are formed (clysis, the traps appar (lization of electrons i at doses of 10 ⁵ - 10 ⁶ r Lained by the assumption | in saturated hydro- ently being stabilized n alkyl radicals takes | 3 |
| SOCIATION: Institut khimicheskoy roice, Academy of Sciences, SSSR) BHITTED: 25Mar63 | • | | |
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| TOPIG TAGS: reorientation | structural tran | sformation, radio-th elastic state, vith | nermoluminesce rification | nce, butadiene r | |
| synthetic rub respective co benzene solut evaporated, a irradiation w dose amounted minute. The | ncentration of ion of these we and a 20-40 micr with fast electronic for the second to 2 Mradian, luminescence we | The subscription of the second secon | groups. A fe llic cuvette, ined. This we ergy, at 77K. rosted at a ru -19 photoelect tion was mean | nr drops of a the solvent as subjected to The irradiation ate of 2 to 600 j tronic amplifier ured by a thermo | n per |
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| to a transition of the rul is supported by the fact (coincide with the temperat was also found that the se thermoluminescence curve. of the 1,2 - groups, the h coming next. The values f determined. N. Ya. Buben Sapozhnikov for assistance | on, the second within 160-273K. defroating of methylene groups a bber from the glassy to the high that the temperatures of the max ture of vitrification of the res second maximums showed shifts as These seem to bear a relations highest (nearly 50C) belonging to for the activation energies of vi is thanked for interest and cons a. Orig. art. has: I formula an inicheskoy fiziki AN SSSR (Instit | and the second maximum n-clasticity state. This time peaks practically pective rubber. It to temperature on the hip to the concentration o SKB rubber, with SKBM itrification were sultation and $D_r N_r$ and k charts. |
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| MUUIAN | ION NH: AP5013758 | | UR/0020/65/16 | 2/002/0310/031 | 2 1 . |
|--|--|---|---|--|---|
| AUTHOR | : Buben, N. Ya.; Gol'd | asskiy, V. I. (| Corresponding member | AN 8658); 21a | <u>t-</u> |
| kevic | L. Yu.; Nikol'skiy, V | . J.; Rayevskiy | , Y. G. | | 5 |
| TITLE | Study of a polymer mi | xture by radiot | hermoluminescence | 1 | |
| BOURC | AN SSER. Doklady, | r. 162, no. 2, 1 | 965, 370-372 | | |
| TOPIC | TAGS: polymer, thermol | uminescence, ra | diothermoluminescence | e, butadiene | · · · · · · · · · · · · · · · · · · · |
| | um. Dedictions live no | ceuce was used | in this work to eval | uate the exten | it of |
| homog compo | neity of polymer mixtur attion but differing with | res. <u>Butadiene</u> th regard to cor os. After degas | elastomers <u>SkB</u> and S itent of vicinal bond ising, the mixture sa | nD, identical s, vere mixed mples were iri | on Aradiated |
| homog compo rolle with 101 | encity of polymer mixture sition but differing with the in various proportion fast electrons at 77K (2 ⁰ per min. Previous with an and improvement with the permin of the percent of the per- man of the percent of the percent of the per- man of the percent of t | res. <u>Butadiene</u> th regard to cor ns. After degar dose: 1 rad) and ork had shown th aximum correspondent | elastomers Skitha o, itent of vicinal bond sing, the mixture so allowed to warm up hat each of the two e adding to the vitrific | s, vere mixed mples were <u>irr</u> at the rate of lastomors had ation temperat | on A radiated a ture |
| homog compo rolle with 101 well- of th | encity of polymer mixture sition but differing with the second properties fast electrons at 77% (2 ^b per min. Previous we remolved luminescence me e elestomer. It was for the insufficiently the | res. <u>Butadiene</u> th regard to cor ns. After degau dose: 1 rad) and ork had shown th aximum correspon und in the prese mixture exhibit | elastomers Skitha o, itent of vicinal bond sing, the mixture sa a allowed to warm up hat each of the two e ading to the vitrific ent work that when th is two luminescence m | s, vere mixed mples were <u>irr</u> at the rate of lastomors had ation temperat e two elastom maxima. On the | a adiated a ture ers e other |
| homog compo rolle with 101 well- of th | encity of polymer mixture sition but differing with the in various proportion fast electrons at 77K (per min. Previous with remolved luminescence manual var for | res. <u>Butadiene</u> th regard to cor ns. After degau dose: 1 rad) and ork had shown th aximum correspon und in the prese mixture exhibit | elastomers Skitha o, itent of vicinal bond sing, the mixture sa a allowed to warm up hat each of the two e ading to the vitrific ent work that when th is two luminescence m | s, vere mixed mples were <u>irr</u> at the rate of lastomors had ation temperat e two elastom maxima. On the | adiated a bure ers e other |

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| ACC NR: ATSO23442 AUTHOR: Nikol'skiy, V. G.; Tochin, V. A.; Buben, H. Ya.44 |
| ORG: none |
| TITLE: Investigation of electrons stabilized in certain saturated hydrocarbons by means of optical methods |
| SOURCE: Simpozium po elementarnym protsessam khimii vysokikh energiy. Moscow, 1963. Elementarnyye protsessy khimii vysokikh energiy (Elementary processes of the chemis- try of high energies); trudy simpoziuma. Moscow, 1965, 163-167 |
| TOFIC TAGS: alkane, mass spectrum, photoluminescence, free radical, electron trap- ning, electron bombardment, spectrophotometer |
| ABSTRACT: Photoluminescence and color of <u>hexane</u> , nonane, 2,4-dimethyldecane, tetra- ABSTRACT: Photoluminescence and color of <u>hexane</u> , nonane, 2,4-dimethyldecane, tetra- decane, cyclohexane, dicylohexyl-4-decane, 1,2-dicylohexyldodecane, and high density decane, cyclohexane, dicylohexyl-4-decane, 1,2-dicylohexyldodecane, and high density dicylohexane, cyclohexane, dicylohexane, d |
| trophotometer. The objective was to learn mot a saturated hydrocarbons at low tempera- trans which fix electrons during radiolysis of saturated hydrocarbons (4000- |
| tures. After radiolysis saturated hydrocarbons exhibit photoical tons present in the -6000 Å). The photoluminescence and color are due to stabilized ions present in the |
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| Academy o | f Sciences USSR (T. | . G., BUBEN, N. Ya., I | nstitute of Chemical | L Physics, | 1 |
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| "Determine of Organic | ation of the Yield o Systems" | of Stabilized Charges : | in Low-Temperature H | • | 16 |
| Moscow, Do | oklady Akademii Nauk | c SSSR, Vol 168, No 2, | 1966, pp 360-363 | 19 | B |
| ized in the tion of pe 0.2-30 Mrs the action stances, i cyclohexan (benzene, alcohols (acetopheno dioxane), | ie low-temperature r aramagnetic particle id and the change in of visible light w including saturated ie, dicyclohexyl-4-d toluene, ethylbenze ethyl, isopropyl, p ne), heterocyclic c | anguetic resonance meth and limiting concentrate radiolysis of organic as a during irradiation we be the electron paramagn were investigated on a hydrocarbons (<u>hexane</u>) ecane, polyethylene) he, styrene, comme, d olyvinyl), ketwaes (ac oppounds (tetrahydrofu and <u>organosili ion comp</u> a of electron acceptor | tions of ion radical substances. The acc rithin the dose inte etic resonance spec broad range of orga n-decane, 2,7-dimet aromatic hydrocarbo iphenylmethane, pol etone, mathyl ethyl ran, 2-methyltetrah | s stabil- umula- rval tra under nic sub- hyloctane, ns ystyrece), ketone, ydrofuran, | |
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METRIAIN, I.T.; POROT, V.Te.; MIEDLIGHIT, T.I.; METRIAIN, V.T.; MULASHTEV, A.A. Utrassenie vibraties as a means of mechanical mechining of various maisrials. Stan. 1 instr. 27 mo.2:16-29 W '56. (Ultrassenie varva--Industrial applications)



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CIA-RDP86-00513R001137

KSENZ, Stanislav Fetrovich; KANURNIKOV, Yuriy Fedorovich; MALAKSIANOV, Mikhail Nikolayevich; NIKOL'SKIY, Vsevolod Ivenovich; KHACHATUROV, Ye.A., tellin. red.

 [Avoiding breakdown in ship redar systems; repairing ship redar devices at sea] Ustranenic neisprevnostei sudovykh rediolokatorov; remont morskikh nevigatsionnykh RLS v more. Koskva, 'si-ve Morskoi transport," 1962. 228 p. (MIRA 15:8) (Radar in mavigation)

CIA-RDP86-00513R001137

| SUBJECT | USSR/Luminescence 48-4-32-48 |
|------------|--|
| AUTHORS | Kate K.L. and Sikol'skiy V. K. |
| title: | On the Mechanism of Selective Absorption of Activator in KCl-Ag Phosphore (O mekhanisme selektivnogo pogloshcheniya aktivatorn v fasforakh KCl-Ag) |
| PERIODICAL | Isvestiya Akademii Hauk SSSR, Seriya Fisicheskaya, 1957, Vol 21, #4, pp 555-554 (USSR) |
| ABSTRACT | The spectrum of selective absorption of the activator in the KCl-Ag phosphor consists of 2 intensive bands with sharp maxima at 216 and 228 m μ and one very weak band with the zerimum at 245 m μ . After irrediating the KCl-Ag phosphor with X-rays a series of new strong absorption bands arise in the long wavelength region, and 2 strong bands with maxima at 222 and 235 m μ and one weak band at 260 m μ arise in the short wavelength region. There bands can be ascribed to certain electron transitions. |
| | From a comparison of spectra from phosphore subjected to the X-ray action and not subjected a conclusion can be drawn, that absorption bands of some part of silver ions are displaced |

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| T. | |
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| TITLE: | On the Mechanism of Selective Absorption of Activator in KC1-Ag Phosphore (O mekhanisme selektivnogo pogloshcheniya aktivatora v fosforakh KC1-Ag) |
| | toward longer wavelengths under the action of X-rays. This displacement can be caused by some lattice defects (amion and cation wacencies, positive holes) some part of which are localized near the activator ions. |
| | The report was followed by a short discussion. |
| | To references are cited. |
| IESTITUT | ION: Saratov State University in Chernychevskiy |
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| ł | AUTHORS: | Eats, M.L. and Hikoliskiy, V.K. |
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| | TITLE : | Absorption and Luminesconce Spectra of the Hbr-In Phosphor and Their Change Under the Action of X-Rays. (Spektry poglophohoniya i lyuminestmentsii kristallofosfora KBr-In i ikh immenelye pol deystylyem renggenorykh luchey.) |
| | PERIODICAL | : Optika i Spektroskopiya, 1958, Vol.IV, Mr.3, pp.354-357 (USSR) |
| | ABSTHACT: | Since In ⁺ and En ⁺⁺ ions have icc-electron shells with identical electron configurations, therefore comparison of properties of elkali-halide phosphors containing these ions as activators is of great interest. The absorption and luminescence spectre of alkali-halide phosphors, activated with tin were reported in Refs.1-4. The present paper reports results of measurements of the absorption, excitation and luminescence spectra of KBr-In and the effect of irradiation of X-rays on the absorption spectra of this phospher. The absorption spectra were measured by means of a quartz photoelectric spectro- photometer SF-4 and the flucrescence spectra were |
| | Card 1/3 | photographed on an ISP-51 spectrograph. The |

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CIA-RDP86-00513R001137

51-4-3-11/30 Absorption and Luminescence Spectra of the KEr-In Phosphor and Their Change Under the Action of X-Rays.

> excitation spectra were studied using a monochromator from the SF-4 spectrophotometer together with a FEU-19 photomultiplier. The samples were presented by L.M. Sheneyskiy and Yu.N. Zavanke. The results are given in Migs.1-4. Fig.1 shows the absorption spectra of KEr-In (curve a) and KEr-Sn (curve b). Fig.2 shows the absorption spectra of KBr-In before (curve a) and after (curve b) irradiation with X-rays. Curve v in Fig.2 shows the effect of illumination with F-band light after X-irradiation; curves g and d show the additional absorption bands produced by X-rays. The flueressance spectrum of KBr-In is shown in Fig.3, while Fig.4 shows the excitation spectrum of the same From the results obtained and those given in phospher. Refs.1-4 it was found that KEr noncorrotals activated with In and Sr⁺⁺ exhibit many similarities in the absorption, excitation and lumineccence spectra as well as in other properties. These similaritles suggest that in the phosphers studied absorption processes are related to transitions of electrons between levels of activator ions. These activator levels are displaced by the

Card 2/3

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CIA-RDP86-00513R001137

S/058/62/000/008/044/134 A061/A101

AUTHORS: Kats, M. L., Nikol'skiy, V. K.

TITLE: On the nature of atomic centers in silver-activated alkali halide phosphors

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 42, abstract 8V295 ("Nauchn. yeznegodnik.'Saratovsk. un-t. Fiz. fak. 1 n.-1. in-t mekhan. 1 fiz.", 1955, Saratov, 1960, 71 - 76)

TEXT: Various assumptions regarding the nature of centers being responsible for the atomic A band (288 mµ) that appears in KCl-Ag phosphors as a result of X-irradiation are confronted. According to one viewpoint (Kats, Ettsel', and Shul'man), the A center consists of an F center with an Ag⁺ ion as one of the cations in its environment, the electron coupling being stronger with Ag⁺ than with K⁺. According to another concept (Shamovskiy and co-workers), thin metallic silver films forming on the surface of the substructure blocks are responsible for the A band. A number of facts is presented in support of the former hypothesis, such as the absence of color in KCl-Ag crystals X-rayed

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al bands correspond to this plase. The EPP spectra were measured it noom temperature and eq. More wire the act of a spectrometer with high frequency modulation and automatic inequency control adainst the working cavity. The contrast measured is K 5 x 5 mm and were grown from the meit by the Kirphone percend. The activator concentration ranged from for to do not be to be results show that no EPR is observed in NaCl-Ni crystals with low activator concentration. The threshold concentration was fold molt% for NaCl and more than 0.06 % for KCl. The minimum at the activator do not ceably with high activator concentration there is unserved an NiCl₂ phase corresponding to an optical anarchic rand with maximum at 460 nm. Thus, art. has: 3 figures and , table.

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ASBOCIATION: None

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| Kdb veflex klystron and in a | bifilar-helix focusing | structure are shown. It is |
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| USSR/Fores | stry - Forest Plan | ts. | K- 5 | |
| Abs Jour | : Ref Zhur - Bio | o1., No 2, 1958, 5927 | | |
| Author | : Mikol'skiy, V | | | |
| Inst | : Azerbaydzhan S and Ameliorati | Sciences Research Institution (agrolesomelior). | te of Forest Economy | |
| Title | : On the Problem Azerbaydzhan. | a of Growing Monthorny Hor | ney Locust in | |
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| AUTHOR: Dushi | n, L. A.; Kononenko, Y. I.; | Pavlichenko, O. S.; Nikol's | kly. Y. Kai |
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| TOPIC TAGS: p scopy, gas dis | lasma diagnostics, plasma pi charge spectroscopy | inch, microwave plasma, micr | wave spectro- |
| emission occur theta-pinch ds of 8.6.10 ⁻⁶ se | are described. The appara- vice with maximum mirror mag of and employing high frequen- ore used to determine the pla- inge of frequencies (9.4 Gc | netic field of 1.3.10 ⁻⁶ a/s | having a period - ve and optical rowave signals |

| plasma outside and within the theta coil region. It was established using microwave propagation perpendicular to the plasma (and magnetic field) axis that a plasma den- sity higher than 2.4 × 10 ¹⁴ cm ⁻³ exists for 6.0 × 10 ⁻⁵ cec. Density vs time plots are given for different capacitor voltages (driving the theta-pinch discharge). The measurements indicate that the plasma density outside the coil region decreases in accordance with a diffusion mechanism while the plasma inside the theta-coil region decreases due to some more rapid loss mechanism. The spectral measurements show that the hydrogen is highly ionized, radiating only at magnetic field minima. The impu- rity lines also appear at these minima, while at other times continuum radiation domi- nates. The charged-particle densities are shown to increase with the initial pres- sure as determined from the line width of H _g . In addition, electron temperature history was determined from observation of singlet and triplet lines of H _g which was 10^{-10} . Fig. 1. Variation of T _g with time $p = 1.3 \text{ N/m}^2$ U = 20 kv | L 102:17-16 ACC N1 AT5028595 | anna i chantair Granna a ann anna ann an Anna Anna Anna A | 0 |
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| $p = 1.3 \text{ N/m}^2$ $U = 20 \text{ kv}$ V V V V V V V V | propagation perpendicular to the plasma (and sity higher than 2.4 × 10^{14} cm ⁻³ exists for 6 are given for different capacitor voltages (c measurements indicate that the plasma density accordance with a diffusion mechanism while to decreases due to some more rapid loss mechanism the hydrogen is highly ionized, radiating only rity lines also appear at these minima, while nates. The charged-particle densities are shown and determined from the line width of H | magnetic field) acts that to 6.0×10^{-5} sec. Density driving the theta-pinch disc y outside the coil region do the plasma inside the theta- ism. The spectral measurem- ly at magnetic field minima e at other times continuum hown to increase with the i . In addition, electron te | vs time plots charge). The acreases in -coil region ents show that . The impu- radiation domi- nitial pres- mperature |
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| NUTHOR: Nikol'skly, VE. H. FITLE: Effect of Eydrologic Inertia on the Height of the Lower Bank-Line Level of Lowland Rivers (Vliyaniye gidro- logicheskoy inertali na vysotu nizshnego mezhennogo uFovnya vody ravninnykh rek) PERIODICAL: Tr. Leningr. in-ta inzh. vod. transp., 1956, Nr 23, pp. 43-45 |
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| PERIODICAL: Tr. Leningr. in-ta inzh. vod. transp., 1956, Nr 23, pp. 43-45 |
| |
| ABSTRACT: Bibliographic entry. |
| ASSOCIATION: Leningrad Institute of Engineering and Water Transporte tion (Leningr. in-t inzh. vod. transp.) |
| Card 1/1 |

下而有它们的发展相同的 VOLKOVA, I.B. ; NALIVKIN, D.V.; SLATVINSKAYA, TO.A.; BOCOMAZOV, V.N.; GAVRILOVA, O.I.; GUREVICH, A.B.; MUDROV, A.M.; NIKOLSKIT, V.M.; OSHURBOVA, M.V.; PETHENKO, A.A.; POGREBITSKIT, Ye.O.; RITENBERG, M.I.; BOCHROVSKIY, F.A.; KIN, N.G.; LUSHCHIKHIN, G.M.; LYUBER, A.A.; MANEDONTSOV, A.V.; SENDERZON, E.M.; SINITSIN, V.M.; SHORIN, V.P.; BELYANKIN, L.F.; VAL'TS, I.E.; VLASOV, V.M.; ISHINA, T.A.; KONIVETS, V.I.; MARKOVICH, YO.M.; MOLRINSKIY, V.V.; PROSVIRYAKOVA, Z.P.; RADCHENKO, O.A.; SEMERIKOV, A.A.; FADDEYEVA, Z.I.; BUTOVA, Ye.P.; VERBITSKAYA, Z.I.; DZENS-LITOVSKAYA, O.A.; DUBAR', G.P.; IVANOV, N.V.; KARPOV, N.F.; KOLESNIKOV, Ch.M.; NEFED'YEV, L.P.; FOPOW, G.G.; SHTEPPEL', B.M.; KIRTUKOW, V.V.; LAVROW, V.V.; SAL'HIKOV, B.A.; HONAKHOVA, L.P. [deceased]; MURATOV. H.V.; COMSKIT, I.I., glav. red.; GUSEV, A.I., red.; NDLCHANOV, I.I., red.; TIZHNOV, A.V., red.; SHABAROV, N.V., red.; YAVORSKIY, V.I., red.; RETKHERT, L.A., red.1sd-va; ZAMARAYEVA, R.A., tekin. red [Atlas of maps of coal deposits of the U.S.S.R.]Atlas kart uglenakopleniia na territorii SSSR. Glav. red. I.I.Gorskii. Zam. glav. red. V.V.Nokrinskii. Chleny red. kollegii: F.A. Bochkovskiy 1 dr. Moskva, Isd-vo Akad. nauk SSSR, 1962. 17 p. (MIRA 16:3) 1. Akademiya nauk SSSR. Laboratoriya geologii ugiya. 2. Chlenkorrespondent Akademii nauk SSSR (for Muratow). (Coal geology -- Hape)

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 NIKOL'SKIY, Vladimir Mikhaylovich; With V, Ville, Easter Relation

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 [Upper Palaozoic cosl-bearing formation in the Yenisey

 Yalley of the Tunguska Basin] Verkhnopaleczoiskaia ugle

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 seina. Moskva, Nauka, 1965. 93 p.

 (MIRA 18:4)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 HOROZOV, N.Y., Eand.tekhn.nauk; USHKOV, F.V., kaud.tekhn.nauk; MIKOL'SKIT, Y.N., kand.tekhn.nauk; SPIVAK, N.Ya., kand. tekhn.nauk; ISIMBLER, V.G., insh.; STRASHFYRH, T.P., red.isd-va; ABRAMOVA, V.N., tekhu.red. [Instructions for designing, manufacturing, and using wall panels in the construction of apartment bouses and public buildings] Ukazaniia po konstruirovaniiu, izgotovleniiu 1 primeneniiu stenovykh panelei v stroitel'stve shilyin f obshchestvennykh zdanii. Moskva, Gos.izd-vo lit-ry po stroit., . arthit, i streit, materiales, 1961, 149 p. (NIRA 15:2) 1. Akademiya stroitel'stva i arkhitektury SSSR. Justitut stroitel'noy fisiki i ograsbdayushchikh konstruktely. (Frecast concrete construction) (Walls) • · /



NIKOL'SKIY, V.N., kand. tekhn. nauk; SPIVAK, N.Ya., kand. tekhn. Hauk; HAULIN, D.K., inzh.; HUADZE, V.Sh., inzh.; RESTAR, V.G., kand. tekhn. nauk; PERTAROV, S.I., kand. tekhn. nauk; USOV, A.L., inzh.; KOSHKIN, V.G., kand. tekhn. nauk; MARAVIN, B.L., inzh.; ER:NBURG, A.I., inzh.; KOCHESHKOV, V.G., insh.; RUBANENKO, B.R., glav. red.; ROZANOV, N.P., zam. glav. red.; ORUFRINEV, I.A., red.; TUDIN, Te.Te., red.; MASOHOV, V.N., rod.; ISIDOHOV, V.V., red.; MAKARICHEV, V.V., red.; FINKINSHIETN, B.A., inzh. red.; [Prefabricated floor and ceiling structures] Poly i perekrytija industrial'noi konstruktsii. Hoskva, Gosstroiizdat, 1. Akademiya stroitel'stva i arkhitektury SSSR. TSentral'nyy nauchno-issledovatel'skiy i eksperimental'no-proyektnyy institut industrial'nykh zhilykh i rassovykh kul'turno-bogatykh zdaniy. 2. Nauchno-issledovatel'skiy institut stroitel'noy fiziki i ograzhdayushchikh konstruktsii (for Kikol'skiy, Usov). 3. TSentral'nyy nauchno-issledovatel'skiy i eksperimental 'no-proyektnyy institut industrial 'nykh shilykh i massovykh kul'turno-bogatykh zdaniy (for Buada, Baulin, Spivak, Kreytan, Kocheshkov). 4. Vsessyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva 1 arkhitektury SSSR (for Erenburg). (Ceilings) (Floors)

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CUSEV, Kikolay Mikhaylovich, doktor tekim. nauk, prof.; KLINOV, Pavel Petrovich, kand. tekim. nauk, dots; HINOUSSII, Pavel Petrovich, kand. tekim. nauk, dots; HINOUSSII, V.N., kand. tekim. nauk, reteancent; KLIVITV, S.I., kand. tekim; nauk, reteancent; KLIVITV, B.P., kand. tekim. nauk, nauchn. red. [Physics in construction] Stroitel'nais fizika. Koskva, Stroitzdat, 1965. 225 p. (MIRA 1814)



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TEMNIN, L.Ye., inzh., red.; SHERENTSIS, A.A., kand. tekhn. nauk, red.; NIKOL'SHIY, V.N., kand. tekhn. nauk; red.; HRILING, R.Ye., kand. tekhn. nauk, red.; IL'HNSKIY, V.M., kand. tekhn. nauk, red.

LA TRACE

[Construction specifications and regulations] Stroitel'nye normy 1 pravila. Moskva, Gosstroiizdat. Pt.2. Sec.V. ch.6. [Enclosing structures; design specification] Ograzhdaiushchie konstruktsii; normy proektirovanija (SNIP II-V. 6-62). 1963. 18 p. (MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy konitet po delam stroitel'stva. 2. Gosatroy SSSR (for Tenkin). 3. Nauchnoisaledovatel'skiy institut stroitel'noy fiziki Akadenii stroitel'stva i arkhitektury SSSR (for Nikol'skiy). 4. Nauchnoisaledovatel'skiy institut Glavnogo upravleniya po zhilishchnomu i grazhdanskomu stroitel'stvu v g.Noskve(for Briling). 5. Moskovskiy inzhenerno-stroitel'nyy institut (for Il'inskiy). 6. TSentral'nyy mancher-tesiedovstek'skiy i projektas-eksperimental'nyy institut industrial'nykh, shilykh i massovykh juleturno-bytovykh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Sherentsis).

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考察中國的影響電腦

HEROL'SELY, V. R. AID 302 - I TREASURE ISLARD HIBLICGRAPHICAL ASPORT PHASE I Call Ho.: 443.034 2008 Authors: DAVIDOV, N. A., KORGVKIJ, P. P., MIEOL'SELY, V. N. Full Title: COLLECTION OF PROBLEMS ON MATHEMATICAL ANALYSIS Transliterated Title: Sbornik radach po matematicheskomi analizu Publishing Data Originating Agency: None Publishing House: State Educational - Pedagogical Publishing House of the Ministry of Education RSFSR No. of copies: 25,000 No. pp.: 195 Date: 1953 Editorial Staff Tech. Ed.: Kone Editor: Mone Appraiser: Mone Editor-in-Chief: None Uthers: Prof. Romanovskiy, P. I. and Dotsent Sluiskaya-Zhegalkina, M. I. made the final editing. Text Data 2412 problems presented are divided into eleven groups. Coverage: listed in 66 subgroups and eleven chapters, as shown in the attached abstracted Table of Contents. Solutions are given for every individual problem. The book does not present anything new, but the system 1/2





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| USSR/Electricity - Furnaces, Electric Nov 51 |
| "The Reitifying Action of the Arc in a Three- Thase Stree Smelting Surnace," V. N. Nikoliskiy, Engr. Kuybyshev Industrial Fost imeni Kuybyshev |
| "Elektrichestvo" No 11, pp 34-37 |
| Results of a study of steel-smelting arc fur- naces, which revealed the presence of clear do components in the arc voltages. Foints out the effect of the smelting process upon these components and discusses their role in the op- components of the furnace equipment. Submitted |
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BRUSILOVSKIY, D.A.; BULGAKOV, L.N.; GENIS, B.M.; KVARTIN, L.M.; KASOVSKIY, Ye.S.; MIKHAYLOV, D.I.; MATCHANNYT, A.S.; MIKOL'SKIY, V.N.; POPOV, M.P.; SIGODZINSKIY, A.A.; SKOMOMOSHKIN, A.F.; V.H.SOVNIKOV, C.V.; DERBISHER, A.V., kand. ekon. nauk, red.; DULKIN, N.A., spets. red.; BONDAROVSKAYA, C.V., red.; TORSHINA, Ye.A., tekhn. red.
[Overall automation and modernisation of equipment and production processes at the First State Bearing Plant] Komplekensis avtomatizatelis i modernizatelis oborudovanifa i protsensov proizvodatva na Fervom gosudarstvemom podshipnikovom zavode. Hoskva, TSentr. biuro tekhn. informateli, 1959. 84 p. (NIRA 15:1)
1. Russis (1917- R.S.F.S.R.) Mockowskiy gorodckoy ekonomicheskiy administrativuyy rayon. Sovet narodnogo khozayastva. (Moscow-Bearing industry) (Automation)

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| PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 11, 1961, 1546-1549 TEXT: Electromagnetic control elements which are described were developed in order to obtain improved dynamic and static characte- ristics, reduced weight and dimensions, and a possibility of use in vibrational mode. The design is shown; the armature is held in a neutral position by two springs and can move to either side under the action of two electromagnetic systems. Farts of the magnetic circuit are in Armco steel. The linearity of the pulling characte- ristic and high frequency of self-oscillations were regarded as ba- sic premises of the design; cylindrical armature with conical faces and conical pole pieces of the yoke provides the linearity of the characteristic; the weight is reduced by joining both electromagne- | UTHORS: | RIGOGOVI IV | |
| 1546-1549 TEXT: Electromagnetic control elements which are described were developed in order to obtain improved dynamic and static characte- developed in order to obtain improved dynamic and static characte- ristics, reduced weight and dimensions, and a possibility of use ristics, reduced weight and dimensions, and a possibility of use in vibrational mode. The design is shown; the armature is held in in vibrational mode. The design is shown; the armature is held in a neutral position by two springs and can move to either side under the action of two electromagnetic systems. Farts of the magnetic circuit are in Armco steel. The linearity of the pulling characte- ristic and high frequency of self-oscillations were regarded as ba- sic premises of the design; cylindrical armature with conical faces and conical pole pieces of the yoke provides the linearity of the characteristic; the weight is reduced by joining both electromagne- | ritle: | Electromagnetic control elements | 1 |
| developed in order to obtain imposions, and a possibility of use ristics, reduced weight and dimensions, and a possibility of use in vibrational mode. The design is shown; the armature is held in a neutral position by two springs and can move to either side under the action of two electromagnetic systems. Farts of the magnetic the action of two electromagnetic systems. Farts of the magnetic circuit are in Armco steel. The linearity of the pulling characte- circuit are in Armco steel. The linearity of the pulling characte- sic premises of the design; cylindrical armature with conical faces and conical pole pieces of the yoke provides the linearity of the characteristic; the weight is reduced by joining both electromagne- | PERIODICAL: | 1546-1549 | |
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 S/103/61/022/011/014/014 D271/D306 Electromagnetic control elements tic systems in a common pole and by a single armature. The dimensions of the parasitic gap were so chosen as to obtain minimum magnetic reluctance and a linear dependence of the armature displacement on the signal. Assuming also a low saturation of the core, forces acting on the armature are $\mathbf{F}_{1} = \mathbf{c} \left(\mathbf{I}_{1}\mathbf{w}\right)^{2} \frac{\mathbf{dG}_{1}}{\mathbf{dr}}$ (1) $\mathbf{F}_2 = c (\mathbf{I}_2 \mathbf{w})^2 \frac{\mathrm{d}\mathbf{G}_2}{\mathrm{d}\mathbf{x}}$ (2) where F_1 and F_2 are forces exerted by both systems, I_1 and I_2 - currents in their coils, w - number of turns, G_1 and G_2 - magnetic conductances of working gaps of both systems, I - displacement of the armature from its neutral postion and c - a constant coefficient. In a vibrational mode, the coils are subject to pulses of constant Oard 2/5

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 31273 5/103/61/022/011/014/014. D271/D306 Electromagnetic control elements height and constant or varying duration, dependent on the sagnitude of the incoming signal; when the signal is varied, currents I, and I₂ vary in proportion, and the displacement of the armature follows. The sum of the current I₁ and I₂ is constant, hence it is convenient to express them as (`3) $I_1 = I_m n$ and $I_2 = I_m(1 - n)$ (4) where I_m is the maximum value and n - coefficient of change. If $\frac{dQ_1}{dx} = \frac{dQ_2}{dx}$ (6)the expression for the resultant force acting on the armature is Card 3/5

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