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| ACCESSION NR: AP3001615 | s/0030/63/000/005/0007/0019 69 |
| AUTHOR: <u>Kurdyumov, G. V.(Academician); Cat</u> Mathematical Sciences) | p'yan, Yu. A. (Candidate of Fhysical and |
| TITLE: Some aims and goals in the study of | solid-state physics 21 |
| SOURCE: AN SSSR. Vestnik, no. 5, 1963, 7-2 | .9 |
| TOPIC TACS: electronic structure, crystal pressure | formation, magnetic phenomenon, high |
| ABSTRACT: The <u>Academy of Sciences is under</u> institutes concerned with solid-state physi- ordinary increase in the scope of this scient microwave spectroscopy, quantum microwave neutron diffraction analysis, semiconductor and the phenomonological mechanics of strees make an increased effort to study the follo- solid states, emphasizing the energy struc- states; 2) the influence of inclusions and solid-state properties; 3) crystal formation | cs. These are to deal with the extra- ence, particularly in the fields of electronics, magnetic and structural rs, low-temperature physics, spectroscopy, each and plasticity. Soviet science must owing: 1) the electronic structure of ture of the electronic spectrum in solid defects in the crystal structure on |
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| 4) the physics of magnet understood; 5) solid-sta strength, concerned, and radiation on solid-state Academy of Sciences, SSS | nto two main groups: (a)-theoretic th of natural crystals, and (b)-th tic phenomena-of importance in g ate physics at high pressures, an ong other things, with the effect structures and their properties SR, strongly supports these endea institutes. It has long been evi- | eir synthetic production eophysics and still poor d f) the physics of produced by high-energy . The Presidium of the vors and solicits the h | on; orly Cy help |
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CIA-RDP86-00513R000927710006-9

KARDONSKIY, V.M.; KURDYUMOV, G.V.; PERKAS, M.D. Fine crystal structure of rold-deformed, high-carbon steel. Fiz. met. 1 metalloved. 15 no.2124/-253 F ¹G3. (MIRA 16:4) 1. Institut metallofiziki TSentral'nogo nauchno-iseledovatel¹skogo instituta chernoy metallurgi1. (Steel-Metallography) (Crystal lattices)

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| ACCESSION NR: | | • • • • | |
| AUTHORS: Kardo | nskiy, V. M.; Kurdy | rumov, G. V.; Per | kas, M. D. |
| TITLE: Influen and pro | ce of size and form perties of steel af | n of cementite pa Ster deformation | rticles on structure |
| SOURCE: Metall plus i | oved. i term. obrat nsert bet. pp. 24 8 | o. metallov, no. 25 | 2, 1964, 2-8, |
| TOPIC TAGS: st lamellar comon | eel properties, cen tite, cementite, co | nentite particles ementite crystal | s plastic flow, |
| of cementite f fine steel str Steels with a various degree X-ray and elec of the cementi and its mechan | orm (lamellar or gl ucture during plast carbon content of (as of deformation th | lobular) on the f tic flow (includi D.l, O.4 and 1% w he steel structur thods. After def nfluences the str During plastic fl | ing dislocation). vere studied. After re was studied by formation, the shape ructure of steel low of steel with |
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ACCESSION NR: AP4012426 structure of deformed carbon-free iron, and their dislocation structures are similar. The shape, size, and internal structure of cementite crystals are only slightly changed in the process of plastic flow. It was determined that the work hardening of steel during deformation is not related to carbon content and corresponds to the increase in strength of carbon-free iron. Lamellar, unlike globular cementite, contributes to the derivation of a more dispersed ferrite substructure during deformation. Plastic flow of cementite crystals also occurs, resulting in the formation of a fine structure. Most of the eutectoid grains are crushed in the deformation process, with lamination disappearing. In those areas where lamination is maintained, there is a thinning of cementite crystals and a decrease in inter-lamellar spacing. The effect is more clearly expressed than the dispersed eutectoid before deformation. Increased eutectoid dispersion contributes to the derivation of a more developed fine structure of ferrite and cementite. Orig. art. has: 8 Figures, 1 Table. ASSOCIATION: TSNIICHM 2/3Card

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710006-9 ACCESSION NR: AP4012426 DATE ACQ: 03Mar64 ENCL: 00 SUBMITTED: 00 SUB CODE: ML NR REF SOV: 005 OTHER: 003 Cord 3/3 法规律

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| <u>L 4002-66 SMT(m)/T/EMF(t)/ETI/EMT(k) LIF(c) JE/HN</u> ACC NR: AR6017263 SOURCE CODE: UR/0058/000/012/E065/E06 | 5 |
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| AUTHOR: Kurdyumov, G. V. | B |
| TITLE: Hardened state of metals | |
| SOURCE: Ref. zh. Fizika, Abs. 12E508 | rnoy |
| REF SOURCE: Sb. otr. In-t metalloved. i fiz. metallov Tsentr. ni in-ta cher metallurgii, vyp. 36, 1964, 7-27 | |
| TOPIC TACS: metal hardening, steel structure, plastic deformation, alloy stee martensitic transformation, austenite | |
| ABSTRACT: The article summarizes the results of research on the nature of the hardened state. The following questions are considered: 1) hardening of steel by quenching, 2) hardening of pure metals and single-phase solid solutions: 3 hardening of steel under plastic deformation; 4) the same under thermomechani hardening of steel under plastic deformation; 4) the same under thermomechani working in the (case of alloyed steel; 5) hardening as a result of a martensit | cal ic |
| transformation followed by aging in the case of carbon parts of the second parts of th | |
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Concor behavior in hardened steel. Metalloved. 1 term. obr. met. (MIRA 18:9) no.8:3-8 Ag 165.

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| L 923L | -66 ENT(m)/EPF(n)-2/T/EWP(t)/EWP(b)/EWA(h)/EWA(c) GG/JD/GS G AT5023793 SOURCE CODE: UR/0000/62/000/000/0160/0167 |
|--|---|
| AUTHOR Sharov | : Batenin, I. V.; Il'ina, V. A.; Kritskaya, V. K.; Kurdyumov, G. V.; B. V. 35 |
| ORG: TITLE: | Investigation of the effect of neutron on the fine crystalline structure and |
| SOURCE | ties of metals and alloys : Soveshchaniye po probleme Deystviye yadernykh izlucheniy na materialy. ; 1960. Deystviye yadernykh izlucheniy na materialy (The effect of nuclear ion on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, |
| 160-16 TOPIC | |
| neutro ABSTR | n irradiation, irradiation effect |
| and ⁴ <u>Fe</u> were i 80C. | e-Ni; Fe-Cr; and Fe-W-alloys annealed at 600, 600, and 650C, respectively, rradiated with an integrated neutron flux of about 15 ²⁰ and 10 ²¹ n/cm ² at Irradiation caused a noticeable widening of interference x-ray lines in copper con resulting from fragmentation of coherent portions of the crystalline |
| 1 - 4 - 4 - 4 | ce (block) (5 x 10^{-6} and 8 x 10^{-6} cm in copper and iron, respectively) and from resence of elastic microdeformations (1 x 10^{-3} and 0.65 x 10^{-3} in copper and |
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iron, respectively). In the Fe-Ni alloy the widening of interference lines was much smaller, and none was observed in chromium and in the Fe-Cr and Fe-W alloys. Irradiation increased the microhardness of all the investigated metals and alloys; the increase varied for different metals and grew larger as flux density increased from 10^{20} to 10^{21} n/cm². The microhardness of the irradiated Fe-W alloy practically did not increase with a cold deformation of up to 60-70 deg, while that of the unirradiated alloy increased significantly with deformation, regardless of its magnitude. In the irradiated and unirradiated Fe-Ni alloy the changes in microhardness with cold plastic deformation were practically identical. The initial difference (AH245 units) in the microhardness of the irradiated and unirradiated Fe-Ni alloy practically disappeared with a 30-40-deg cold deformation, after which the changes in microhardness followed a conventional course. A similar pattern was observed for irradiated and unirradiated chromium, except that the initial difference (AH) was 30 units and it decreased to zero after a 70-80 deg deformation. Investigation of the dependence of the microhardness on the annealing temperature showed that the nature of the crystal lattice defects created by plastic deformation differed substantially from the nature of the defects created by neutron irradiation. The former were much more stable; hence, weakening of irradiated metals began at appreciably lower annealing temperatures. Orig art. has: 15 figures. [MS] SUB CODE: 11, 20/ SUBM DATE: 18Aug62/ ORIG:REF: 001 <u>Car</u>d

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| L 00850-66 ENT(m)/T/ENP(t)/ENP(b)/ENA(c) INP c) JD ACCESSION NR: AP5020702 UR/01 669.1 AUTHOR: <u>Kurdyumov, G. V.</u> 44,55 | 129/65/000/008/0003/0008 15 43 34 |
|--|---|
| TITLE: Behavior of carbon in hardened steel | √_ √_ |
| BOURCE: Metallovedeniye i termicheskaya obrabotka metallov TOPIC TAGS: carbon behavior, hardened steel, martensite tr saturated solid solution, carbon segregation, Epsilon carbon centered lattice, body centered lattice, dissolved carbon, lattice | ransformation, super- ide, Alpha iron, face |
| ABSTRACT: As a result of the rapid change from a face-cent iron lattice, occurring in the presence of a martensitic matransformation, the entire carbon dissolved in the austenit solid solution and in the martensite. In this strongly sup tion, immediately after its formation, processes of carbon take place. The rate of this process is largely a function the presence of a high initial temperature of martensite for cesses may occur to a marked extent as early as during the hardening the steel. This may account for the fact that t simple carbon steels containing less than 0.6% C do not sh acteristic of the tetragonal lattice of martensite. Studi | echanism of austenite te is retained in the persaturated solid solu- segregation begin to n of temperature. In ormation M ₁ these pro- cooling involved in he roentgenograms of ow the split lines char- |
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of the processes occurring in martensite during heating have so far paid little attention to the effect of defects of the crystalline structure on the behavior of dissolved carbon. On the basis of a literature survey and his own experiments, the author concludes that the carbon in neutron-irradiated iron gets segregated at temperatures as low as 50°C; no intermediate e-carbide is observed, and cementite forms in the region of ~250°C. Thus it may be assumed that in irradiated iron the C atoms in the region of ~50°C are absorbed by the vacant sites. A calorimetric investigation has shown that the bonding energy between the C atom and the vacant site exceeds its bonding energy in ϵ -carbide: this accounts for the failure of ϵ carbide to form in irradiated iron. The transition of the tetragonal martensite lattice to a lattice close to the lattice of α -iron, observed at room temperatures particularly in nickel steels, "is attributable to the decay of martensite and seg-regation of e-carbide, the migration of C atoms to the defects of the crystalline lattice of martensite (dislocations) vacant sites, boundaries between twins), and the transition of the ordered alignment of C atoms in the solid solution to a disordered alignment. Further investigations are still needed in order to solve the question of the nature of the transformation of tetragonal martensite. This is of major practical importance considering that the tempering processes could then be varied according to the state of carbon in the martensite prior to tempering. In

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AGEYEV Nikolay Vladimirovich, nagrazhden ordenom Lenina, dvurya ordenami Trudovogo Krasnogo Znameni, medal'yu za doblestnyy trud v Velikoy Otechestvennoy voyne, otv. red.; KURDIUNUV, G.V., akademik, red.; ODING, I.A., red. [deceased]; PAVLOV, I.M., red.; ZULIN, I.F., kand. tekhn.

[Study of steels and alloys] Issledovaniia stalei i splavov. Moskva, Nauka, 1964. 390 p. (MIRA 17:8)

1. Moscow. Institut metallurgii.2.Chlen-korrespondent AN SSSR (for Odin, Ageyev, Pavlov).

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SARAH I

KARDONSKIY, V.M.; KURDYUMOV, G.V.; PERKAS, M.D.

Effect of size and shape of cementite particles on the structure and properties of steel following deformation. Metalloved. i term. obr. met. no.2:2-8 F'64 (MIRA 17:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy motallurgii imeni Bardina.

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| ACCESSION NR: AP4041147 AUTHOR: Dckhtyar, I. Ya.; Levina, D. A. G. V. (Academician) | |
|---|---|
| TITLE: Annihilation of positron and elect | |
| SOURCE: AN SSSR. Doklady*, v. 156, no. 4 | i |
| TOPIC TAGS: electron positron annihilation nickel iron alloy, electron energy distributed | on spectra, plastically deformed metal, bution |
| bution of d-electrons to the annihilation described by the authors earlier (Voprosy (1051)). The positron source was Na ²² . | stic deformation on electronic structure, mation about the energy distribution of cted on nickel and iron-nickel alloy of operties of there metals are determined and s-clectrons, and because the contri- spectra is considerable. The method was * fiz. met. 1 metalloved, no. 12, 46 |
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| ASSOCIALION: Institut metal of Metals, Academy of Science | Llofiziki, Akademii nauk USSR. ces USSR) | (Institute of Physics |
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8/0020/64/156/004/0792/0794 ACCESSION NR: AP4041146 AUTHOR: Alfintsev, G. A.; Ovsiyenko, D. Ye.; Kurdyumov, G. V. TITLE: Study of the mechanism of growth of gallium crystals from the melt SOURCE: AN SSSR. Doklady*, v. 156, no. 4, 1964, 792-794 TOPIC TAGS: crystal growth, gallium crystal growth, crystal growth theory, crystallography, deformation effect ABSTRACT: The purpose of this work was an investigation of the kinetics of gallium, crystal growth. The specimen was 0.5 mm thick. Liquid gallium was maintained at, a desired constant temperature by means of a ultrathermostat. The growth of the (001) face of the crystal was observed with an MIM-6 miscroscope. It was found that the rate of growth, at the same amount of undercooling ΔT , is very sensitive to deformation of the primary crystal. If vibrations which lead to deformation of to deformation of the primary crystal. If vibrations which lead to deformation of solid gallium are avoided, the crystals did not grow even at a considerable ΔT . For instance, at $\Delta T = 0.480$, no growth was observed during one hour. At $\Delta T = 0.760$, the rate of growth was 1.56 x 10⁻⁰m/sec. At $\Delta T = 0.630$, the growth was -1.28 x 10⁻⁰m/sec. before deformation, and 2 x 10⁻⁰m/sec. after deformation. Card 1/2 1000

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| AUTHOR: Ku | dyumov, I.V.; El' Samarai, S.Kh.; Smirnov, Yu.F.; Shitikova, K.V. 65 | |
| ORG: none | 3. | |
| TITLE: Dipo Spectroscom | le photoabsorption in Li-6 /Report, Fifteenth Annual Conference on Nuclear | |
| | and Nuclear Structury, held at Minsk, 25 January to 2 February 1965/ | |
| 1 | SSR. Izvestiya. Seriya fizichoskaya, v.30, no. 2, 1966, 292-300 | |
| TOPIC TAGS: absorption, | nuclear reaction, nuclear structure, nuclear shell model, gamma ray ithium, nuclear energy level, | |
| to calculate Li^{6} $(\gamma,n)Li^{5}$ He ⁶ states a absorption w Phys. 38, 62 the Li ⁶ stat data. The p | the authors have employed the translation invariant oscillator potential of Yu.F.Smirnov and K.V.Shitikova (Izv. AN SSSR. Ser. Fiz., 27, 1442 (1963)) the dipole photoabsorption of Li ⁶ as well as the cross section for the reaction. Excitation probabilities in the Li (p,2p)He ⁶ reaction of odd alogous to the Li ⁶ states of interest in connection with the photo- re also calculated by the method of V.V.Balashov and A.N.Boyarkina (Nucl, (1962)) and K.Dietrich (Phys. Lett., 2, 139 (1962)), and the energies of s were determined by comparing the He ⁶ calculations with experimental otoabsorption calculations were effected by diagonalizing, together with tal interaction, the matrix for the residual two-particle interactions, | - |
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| assumed to have a Gaussian radial dependence. The calculations were performed for the two exchange force variants of Serber and Rosenfeld and for several values of the spin- orbital coupling constant. The results did not depend strongly either on the spin- orbital coupling or on the exchange force variant. The energy of one Li ⁶ state was evaluated as 16.6 MeV by comparing the He ⁶ calculations with the experimental data of L.P.Garron et al. (Phys. Rev. Lett., 7, 261 (1961)) on the Li ⁷ (p,2p)He ⁶ reaction, and three groups of Li ⁶ photoabsorption levels were found in the 10-12, 16-25, and B1-35 MeV regions. It is concluded that it is possible to locate in a unified way with the aid of the present model all three groups of Li ⁶ levels that are observed to be excited in dipole photoabsorption. According to the present calculations the only Li ⁶ levels that can disintegrate into a He ³ nucleus and a triton have energies between L6 and 18 MeV; therefore the conclusion of Ye.D.Makhnovskiy and A.P.Komar (Dokl.AN SSSR, 156, 774 (1964)) that these levels are located in the 21-23 MeV region is doubtful, and further experimontal investigation of the photodisintegration of Li ⁶ is desirable. The authors thank V.V.Balashov, V.G.Heudachin, and N.P.Yudin for discussion and valuable advice. Orig. art. has: 1 formula, 4 figures and 2 tables. |
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CIA-RDP86-00513R000927710006-9

KURDYUMOV, K.P.

AUTHOR: Kudryumov, K. P.

TITLE: An Improved Conveyor Grid for Annealing Furnaces (Usovershenstvovannaya konveyernaya setka dlya otzhigatel'nykh pechey)

PERIODICAL: Steklo i Keramika, 1957, Vol. 14, No. 1, pp. 26-27 (U.S.S.R.)

ABSTRACT: The proper operation of annealing furnaces in glass plants depends upper the rate of wear of conveyor grids. Due to their erroneous design, the existing grids elongate and narrow down to 800 and 900 mm., instead of to the required 1100 mm., which results in a 20% decrease in production, and the grids have to be replaced every 5 - 6 months. Fig. 1 shows the standard type grid made of 3.0 - 3.5 mm. wire interlaced into loops 600 mm. wide and interconnected with ramrods 3.0 - 3.5 mm. in diameter. Fig. 2 shows a new type grid designed by E. M. Voykhanskiy, I. P. Andreyev, and M. A. Nikitin, employed at the Moscow Mechanical Shops (Rosglavkonserv). This grid, by virtue of its design, will in the opinion of designers eliminate all of the above-mentioned shortcomings. Data obtained from several glass factories using this new

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XIABYUMON, L.J., SAMOYLOV, I.V., otvetstvennyy red.; KUEDYUMOV, L.D., otvetstvennyy red.; IEMAKOV, M.S., tekhn. red. [Problems in hydrology] Voprosy gidrologii. [Moskva] 1957. 231 p. (MIRA 11:7) 1. Moscow. Universitet. Geograficheskiy fakul'tet. (Hydrology)

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GIBSHMAN, Ye.Ye., redaktor; DZHUNKOVSKIY, N.N., redaktor; YEGOROV, P.A., inzhener, redaktor; NITROPOL'SKIY, N.M., professor, redaktor; PUSHTORSKIY, Ye.I., inzhener; ROYER, Ye.N., inzhener; POLIVANOV, N.I., dotsent; KURDYUMOV, M.D., inzhener; OSTROVIDOV, A.M., inzhener; KROPOTOV, I.I., inzhener; VOLKOV, V.P., dotsent.

> [Handbook on the planning, construction and operation of city roads, bridges and hydraulic structures] Spravochnik po proektirovaniu, stroitel'stvu i ekspluatatsii gorodskikh dorog, mostov i gidrotekhnicheskikh sooruzhenii. Pod red. E.E.Gibshman, N.N.Dzmunkovskii, P.A.Egorov. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR. Vol. 1. [Bridges] Mosty. Pod red. N.M.Nitropol'skii, 1953. 984 p.

(Bridges) (Tunnels) (Retaining walls) (MLRA 7:1)

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ITSKOVICH, M.L., KURDYIMOV, M.D., GHZENTSVEY, L.B., red.; PROTSENKO, D.I., red.izd-va., RAKITIN, I.T., tekhn.red.;

[Outside water, sewer, and drainage networks in relation to city streets; reference manual for contractors] Naruzhnye seti vodoprovoda i kanalizatsii, vodostoki i gorodskie dorogi; spravochnoe posobie proizvoditellu rabot. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1958. 263 p.(NIRA 11:9) (Municipal engineering) (Streets)

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"中心"的中心和公司的中国和美国市场的有限的 COLORADO CON

BORISOV, Aleksondr Prokof'yevich, kand.ekonom.nauk; CHISTYAKOV, Pavel Mikhaylovich, inzh.; KURDIUMOV, M.D., red.; UCHITEL', I.Z., red. izd-va; LELYUKHIA, A.A., tekhn.red.

> [Municipal economy in reservoir areas; technical and economic aspects] Gorodskoe khozisistvo v sone vodokhranilishch; tekhnikoekonomicheskie voprosy. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 286 p. (MIRA 13:9) (Reservoirs)

(Flood control)

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ITSKOVICH, Mark Leont'yevich; KURDYUMOV, Mikhail Dmitriyevich; GEZENTSVEY, L.B., red.; BOLOTINA, A.V., red. izd-va; LELYUKHIN, A.A., tekhn. red. [Underground severs and water pipes and their relation to municipal streets] Podzemnye sanitarno-tekhnicheskie kommunikatsii i gorodakie dorogi; spravochnoe posobie proizvoditeliu rabot. Izd.2., perer. 1 dop. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1961. 286 p. (MIRA 14:12) (Sewerage) (Water pipes) (Streets)

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GRATSIANSKIY, M.N., kand. tekhn. nauk; KOSTCMAROV, V.M., kand. tekhn. nauk; ALEKSANDROVSKIY, Yu.V., kand. tekhn. nauk; KARAGODIN, V.L., inzh.; KARAGODIN, A.L., inzh.; ANUFRIYEV, V.Ye., kand. tekhn. nauk; KULDYUNOV, M.D., inzh.; DZHUNKOVSKIY, N.N., doktor tekhn. nauk; FOT.; ABHAMOV, S.K., kand. tekhn. nauk; KEDROV, V.S., kand. tekhn. nauk; GIBSHMAN, Ye.Ye., prof., red.; YECOROV, P.A., inzh., red.; VARGANOVA, A.N., red. izd-va; LELYUKHIN, A.A., tekhn. red.

> [Lanual for the design, construction and operation of urgan roads, bridges and hydrotechnical structures] Spravochnik po proektirovaniu, stroitel'stvu i ekspluatatsii gorodskikh dorog, mostov i gidrotekhnicheskikh sooruzhenii. Red. kol. E.E. Gibshan, N.K.Dzhunkovskii, P.A.Egorov. Moskva, Izd-vo M-va kommun.khoz. RSFSR. Vol.2. [Hydrotechnical structures] Gidrotokhnicheskie sooruzheniia. Red. toma: N.N.Dzhunkovskii, M.D.Kurdiumov. 1961. 706 p. (MIRA 15:3) (Hydraulics) (Hydraulic engineering)

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| - | | Lymphatic System. | |
| | Abs Jour | : Ref Zhur Biol., No 23, 1958, 105964 | |
| | Author | : Kurdyunov, N.A. | |
| | Inst | : Dagestan Medical Institute | |
| | Title | : Forms of Lymphatic Connections of the Organs of the Abdominal Cavity with the Main Lymphatic Collectors and with the Venous System | |
| | Orig Pub | : Sb. nauchn. tr. Dagest. med. in-t, 1956, 6, 189-191 | |
| | Abstract | : In 22 cadavers of newborn and fetuses, it was shown that the efferent lymphatic vessels (ELV) in humas leave some organs by one route (sex glands), and others by several routes (liver; the ELV leave it by three routes). The collector lymph ducts connecting the organs with the venous system can be of three types: | |
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A AF WOMAG USSR/Human and Animal Morphology - Normal and Pathological. S Lymphatic System. 1 : Ref Zhur Biol., No 23, 1958, 105964 Abs Jour 1) several (2-8) ELV of an organ flow into one stem, passing into the venous system; 2) one ELV branches out in several (2-8) collector vessels which, then, uniting into one stem, pass into the venous bed; 3) several ELV of the organ unite in one collector vessel, which again subdivides into 2-8 collector vessels and then, after their confluence, one stem is formed which joins the venous system. Card 2/2 L STREET SHE ARE THERE ARE

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SHEVCHENKO, Is.O.; KURDYUMOV, S.V., redaktor. professor; RUDNITS'KA, P.P., redaktor; RAKHLINA, M.P., tekhnicheskiy redaktor.

[Local fuel resources of the Ukrainian S.S.R. and ways of using them] Mistsevi palvyni resursy URSR i shliakhy ikh vykorystannia. Kyiv, Vyd-vo Akademii nauk Ukrains'koi RSR, 1953. 25 p. (MLBA 8:2) (Ukraine--Fuel)

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KURDYUMOV, S.V., kandidat tekhnicheskikh nauk.

Over-all mechanization of peat enterprises of low and medium capacity. Torf.prom. 31 no.6:17-19 '54. (MLRA 7:9)

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KURDYUMOV, S.V., kandidat tekhnicheskikh nauk. and the second Ľ., Over-all mechanization of unelectrified peat enterprises of small and medium capacity. Trudy Inst. torf. AN BSSR 4:78-90 '55. (MIRA 9:3) 1. Ukrainskiy nauchno-issledovatel'skiy institut mestnykh vidov topliva. (Peat machinery) HCF4 DOS



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BAUSIN, A.F.; SOKOLOV, A.A.; ANTORVV, V.Ya.; KUHDYUMOV, S.V.; BKL'KKVICH, P.I.; SAVINYKH, A.J.; KARAKIN, F.F.; SOLOPOV, S.G.; TRFIMOV, V.S.; YARIVITSIN, V.I.; RABKIN, B.A.; BABARIN, A.F.; MATVEYEV, L.M.; FUNIKOV, S.A.; CHERNENKOV, D.P.; BULAYEVSKIY, N.V.; kandidat tekhnicheskikh nauk; SHINKARINK, K.K.; TSUPROV, S.A.; GINZMURG, L.N.; VASIL'YEV, Yu.K.

Scientific and technical conference on the work of the peat industry of the Ministry of Electric Pewer Stations. Torf.prom. 32 no.2:1-20 155. (HLRA 8:5)

1. Zamestitel' ministra elektrostantsiy (for Bausin). 2. Zamestitel' direktora VNIITP (for Sokolev). 3. Zamestitel' direktora MTI (for Antonov. 4. Zamestitel' direktor "'krniimesttopprom"(for Kurdyunov). 5. Direktor Instituta torfa AN BSSR(for Bel'kevich). 6. Machal'mik Glavenergozapchasti MES(for Savinykh). 7. Glavnyy inzhener Ivanovsko go torfetresta (for Karakin). 8. Zamestitel' direktora MTI (for Sele pov) 9. Upravlyayushchiy Shaturskogo torfotresta (for Yarovitsin). 10. Glavnyy mekhanik Invanosvkogo torfotresta (for Yarovitsin). 11. Glavnyy mekhanik Leningradskogo torfotresta (for Rabkin). 12. Glavnyy inshener Ozeretsko-Neplyuyevskogo torfotresta (for Matveyev). 14 Bukovoditel' laberatorii VNIITP (for Funikov). 15. Glavnyy inzhener tresta Lentorfostroy (for Chernenkov).

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SHEWCHENKO, Yakov Aleksandrovich [Shevchenko, IA.O.]; KURDYUMOV. S.V., prof., red.: NOVIKOVA, G.O., red.izd-va; ZHUKOVSKIY, A.D. [Zhukovs'kyi, A.D.] tekhm.red. [Ways of developing the local fuel industry in the Ukraine] Shliakhy rozvytku mistsevoi palyvnoi promyslovosti URSR. Kyiv, Vyd-vo Akad. "auk URSR, 1958. 134 p. (MIRA 11:12) (Ukraine--Coal) (Ukraine--Peat)

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BURGHARV, CM. USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23 Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63345 Author: Kurdyumov, V. A. Institution: None Title: Intensification of Production of Oxyterpenic Resin and Solvent Original Periodical: Gidroliznaya i lesokhim. prom-st', 1955, No 3, 18-19 Abstract: A diagram is shown of a continuous operation unit for the production of oxyterpenic resin and solvent and its operation is described. Output of the unit on continuous oxidation of turpentine in columns has been increased more than 4 times. Lacquers made from the resin produced in the unit meet the technical specifications. Card 1/1

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| AUTHOR : | Nurdyumov, V.A., Engineer, | 28-4-22/35 |
| TITLE: | In Reference to the Suggestions of E.I (Po povodu predlozheniy E.I. Lyubomirs | |
| PERIODICAL: | Standartizatsiya, 1957, # 4, pp 69-71 | (USSR) |
| ABSTRACT : | The article is a critique of the wo "On the Problem of Standardization of Standartizatsiya, 1957, # 4. Lyubomirs comings in the dimension system by int recommendations, without mentioning th cepted in the national standards of Ge slovakia, Poland, Hungary, Rumania, Bu is used by the majority of Soviet mach branches (transport, coal industry, ro machinery, tractor and agricultural ma Comparing the projected international 6033-51 for involute spline connection vantages of the Soviet standard's 30° the 20° pressure angle of the internat mentioning the disadvantages of the So Lyubomirskiy's statements do not go | Spline Connections" in kiy points out short- ernational standard at this system is ac- rmany, France, Czecho- lgaria and others and ine building industry ad building, heavy chinery industry). standard with the FOCT s. He gives the ad- pressure angle over ional standard, without viet standard. beyond geometric con- |
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In Reference to the Suggestions of E.I. Lyubomirskiy 28-4-22/35 strength, rigidity, accuracy of machining. Also he cannot support his statements by convincing references to completed investigations of spline connections. As is known, the radial loading increases with an increasing involute profile pressure angle, and with the change from a 20° to 30° pressure angle it would increase 1.58 times. It is questionable if such an increase of radial loading is practical. It is not true that interchangeability of straight-line tooth profile spline connections between USSR and the People's Democratic Republics is impossible. Tolerance systems can always be coordinated, particularly when such systems do not as yet exist. In general, engineer Lyubomirskiy strives to defend existing state standards, ignoring their shortcomings, and dismisses the ISO project, without being able to give sufficiently grounded arguments for this rejection. ASSOCIATION: Committee of Standards, Measures and Measuring Devices (Komitet standartov, mer i izmeritel'nykh priborov) AVAILABLE: Library of Congress Card 2/2

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VISHNYAKOV, Ya.D.; KURDYUMOV, V.G.

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Electron-microacope study of the dislocation structure of the alloy Co45% Fe. Fiz. tver. tela 6 no.1:279-281 Ja '64. (MIRA 17:2)

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1. Institut fiziki metallov, Moskva.

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21366 1418,1555 5/126/61/011/004/016/023 188200 E193/E483 AUTHORS: Kardonskiy, V.M., Kurdyumov, V.G., Kurdyumov, G.V. and Perkas, M.D. TITLE : The Effect of the Grain Substructure and Crystal Properties on Strength. I. The Fe-Ni and Fe-Si Alloys PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.11, No.4, pp.609-614 The object of the investigation described in the present TEXT: paper was to study the effect of the thermally induced variation of the properties of crystals on strength of metals in the hard condition and on the magnitude of the elastic deformation of microdomains (distortions of the second type). The experimental work was carried out on two Fe-base alloys, one containing 25% Ni and the other 1.15% Si. (The Ni-bearing alloy was chosen for this purpose because of its specific characteristic, consisting in that annealing of this alloy at 450°C brings about a complete removal of the distortions of the second type without significantly affecting the size of the regions of coherent scattering.) The Fe-Ni alloy was hardened by quenching, the Fe-Si alloy by cold rolling to 50% reduction in thickness. In addition to the determination Card 1/7 HERE AND A DESCRIPTION OF THE OWNER

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21366 \$/126/61/011/004/016/023 The Effect of the Grain ... E193/E483 (by X-ray diffraction analysis) of the magnitude of distortions of the second type, $\Delta a/a$, and the size D of the regions of coherent scattering, the yield point (σ_s) , U.T.S. (σ_B) and Vickers hardness number (HV) of both hardened and partially annealed alloys were measured, and the temperature-dependence of these properties was determined for both hardened and fully annealed specimens. The results of the first series of experiments, carried out on preliminarily hardened Fe-Ni alloy, are reproduced in Fig.1, where HV, σ_g (kg/mm²), D (10⁻⁶, cm) and $\Delta a/a$ (10⁻³) are plotted against the annealing temperature (°C); in addition, the diagram shows the temperature-dependence of HV and σ_{s} (curves, marked HV(t) and $\sigma_{s}(t)$, respectively). It will be seen that the temperature dependence of σ_{g} and HV is quite different from the relationship between these properties (measured at 20°C) and the annealing temperature. Thus, σ_s measured at 450°C is 25 kg/mm² lower than σ_s measured at 20°C after annealing at 450°C, the corresponding difference for HV being 90 units. On the other hand, the temperature-dependence of σ_s and HV is almost identical with the relationship between Δ a/a and the annealing temperature. The fact that σ_{s} of preliminarily Card 2/7

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hardened specimens is practically constant after annealing at various temperatures indicates that σ_s , measured under these conditions, reflects mainly the character of the variation of the grain substructure during heating; in fact, D of specimens, annealed at various temperatures, also remains practically constant In the next series of experiments, preliminarily hardened specimens of the Fe-Ni alloy were annealed at 430°C to attain almost complete removal of the distortions of the second type, and then the temperature dependence of $\sigma_{\rm S}$ of these specimens was determined. This was found to be identical with that of fully hardened alloy, whereby the view was confirmed that the resistance of an alloy to deformation is not increased by the presence of distortions of the second type, Owing to the comparatively low temperature at which the reverse $\alpha \longrightarrow \gamma$ transformation takes place in the Fe-Ni alloy, it was not possible to use this material to study the relationship between Da/a and the temperature dependence of annealed specimens. purpose the Fe-Si alloy was more suitable, For this experiments carried out on this material are reproduced in Fig.4 The results of which shows: temperature dependence of HV of cold-rolled alloy

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21366 s/126/61/011/004/016/023 The Effect of the Grain ... E193/E483 (curve HV(t), white triangles); temperature dependence of HV of specimens annealed at 750°C (curve HV(t), white squares); variation of HV of preliminarily hardened specimens after annealing at various temperatures (curve HV, white triangles); variation of \Im (dots) and $\Delta a/a$ (white triangles) after annealing at various temperatures. The temperature dependence of HV of the annealed specimens reflected the decrease in the resistance of the alloy to deformation due to the variation of the properties of crystals with rising temperature; since the specimens were annealed at 700°C, their grain substructure should remain unchanged during subsequent heating and should not affect the variation of HV. In the case of the cold-rolled specimens, whose HV was measured at room temperature after annealing at various temperatures, the variation of HV reflected only the changes in the micro- and sub-microscopic structure of the grains, brought about by heating to progressively higher temperatures. This means that in the temperature dependence of HV of coldrolled material, HV at each temperature should be determined by the changes in both the grain substructure and the crystal properties that have taken place as a result of heating to this Card 4/7 PLAN IN MARKING

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The Effect of the Grain

Starting from these considerations, the present temperature. authors constructed a "theoretical" curve, illustrating the temperature dependence of HV of cold-worked alloy, simply by adding (for each temperature) the decrease in HV due to the change in the crystal properties (found from the experimentally determined temperature dependence of annealed specimens) to that due to the variation of the grain substructure (found from the experimentally determined variation of HV of cold-worked specimens after annealing at various temperatures). The results plotted in Fig.4 (black triangles) were in good agreement with the experimental curve (white triangles). The results of the present investigation confirmed the view that strength (resistance to deformation) of a hardened material is determined by two factors: (1) the properties of the crystals (resistance to the movement of dislocations in the crystal regions, free from sub-boundaries) and (2) the substructure of the crystals (size of the sub-micro-regions, presence of sub-boundaries, degree of misorientation of the mosaic blocks). There are 5 figures and 9 Soviet references.

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KURDYUMOV, V.G.; ORLOV, L.G.; USIKOV, M.P.

Thinning of metallic samples by electrolytic polishing for inspection by means of a transmission electron microscope. Zav. lab. 27 no. 12:1490-1494 '61. (MIRA 15:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I.P. Bardina.

(Metals) (Electrolyting polishing) (Electron microscopy)

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Acretz - Alanca MATSUK, Yu.P., inzhener; KURDYUHOV, V.N., inahener; MALYY, G.D., inzhener; BEZUGIOV, M.I. inzhener; BEZUGLOV, M.I., inzhener. Mechanical removal of solvent from oilseed meal. Masl .- zhir. prom. 23 no.3:6-7 157. (MLRA 10:4) 1. Vsesoyuznyy nauchno-issledovatel skiy institut zhirov (for Matsuk). 2. Lenzhirkombinat (for Kurdyumov). 3. Poltavskiy zhirovoy kombinat (for Malyy). 4. Krasnodarskiy maslozhirovoy kombinat (for Bezuglov). (Oils and fats) CONTRACTOR COTTAC ISSUED ٠ . .

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BEZUGLOV, I.Ye.; KURDYUMOV, V.N., inzh.; V rabote prinimali uchastiye: GAERILENKO, I.V.; GRAEOVSKIY, I.I.; NESHCHADIM, A.G.; BELOBORODOV, V.V.; VISHNEPOL'SKAYA, F.A.; MATSUK, Yu.P.; GAYTSKHOKI, H.I.; USACHEV, A.S.; ABKINA, N.N.; RUMYANTSEVA, A.G.; KOSHELEV, A.P.; GRIGOR'YEV, F.L.; LUKASHFVICH, A.M.; STYAZHKINA, A.G.; MIKHAYLOVICH, A.N.; YEDEMSKIY, P.M.; MASLOV, P.V.; KUDRYASHEVA, Z.P.; PROSMUSHKIN, R.M.; SHTAL'BERG, V.A.; BOYTSOV, N.I.

> Operational experience with a newly introduced oil-extraction line equipped with the DS-70 belt-conveyer extractor. Magl.-zhir.prom. 26 no.3:29-31 Mr ¹60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Bezuglov, Gabrilenko, Grabovskiy, Neshchadim, Beloborodov, Vishnepol'skaya, Matsuk and Gaytskhoki). 2. Leningradskiy zhirovoy kombinat (for Kurdyumov, Usachev, Abkina, Rumyantseva, Koshelev, Grigor'yev, Lukashevich, Styazhkina, Mikhaylovich, Yedemskiy, Maslov, Kudryasheva, Prosmushkin). 3. Leningradskoye otdeleniye tresta "Prodmontazh" (for Shtal'berg and Boytsov). (Leningrad--oils and fats)

(Extraction apparatus)

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AUTHOR: Kurdyumov, V. N.

TITLE:

Reaction Forces Produced by a <u>Cherenkov Radiation</u> in a Crystal

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 3, pp. 563 - 566

TEXT: The author studied the Vavilov-Cherenkov radiation in the case of a uniform motion of the charge in an arbitrary direction in a monoaxial nonmagnetic crystal. The expressions for the forces causing a deviation of the charge from their straight-lined path, are analyzed. Using the premises laid down by V. L. Ginzburg (Ref. 1), two expressions are found for the slowing-down force and for the deflecting force, that act upon the charge, by starting from formulas (1) holding for crystal potentials. The emission of ordinary and extraordinary waves is examined next. Formulas (5) and (9) are derived, considering both wave types, for the above forces acting upon the charged moving particle. Finally, a special case is considered, for which it is assumed that $\mathcal{E}_{(\omega)} > 1$ and $\mathcal{E}_{e}(\omega) > 1$.

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| PRESENTED: | April 26, 1960, by M. A. Leon | | |
| SUBMITTED: | April 19, 1960 | | |
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NESHCHADIN, A.G., inzh.; KURDYUMOV, V.N., inzh.; Prinimali uchastiye: YEDEMSKIY, P.M.; FADEYEVA, K.M.; SOKOLOV, A.I.; PETROVA, A.I.; MIKHAYLOVA, N.M.; SERGEYEVA, Z.P.

> Influence of temperature on the extraction of prepressed sunflower cakes in the DS-70 extractor. Masl.-zhir. prom. 27 no.6:35-38 Je '61. (MIRA 14:6)

1. Veronezhskiy tekhnologicheskiy institut, Leningradskoye otdeleniye (for Neshchadim). 2. Leningradskiy maslozhirovoy kombinat (for Kurdyumov, Yedemskiy, Fadeyeva, Sokolov, Petrova, Mikhaylova, Sergeyeva). (Sunflower oil)

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| AUTHOR: TITLE: | Kurdyumov, V.K On the theory | of the Cerenkov ra | n)-2/EPA(w)-2 DI UR/0057 diation of a charge 35, no. 10, 1965, | 71 V | |
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| AUTHOR: Kurdyumov, V.N. ORG: none | 59 B |
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| TITLE: Corenkov excitation by a charge moving in a cold ma ionic branches of the oscillations | gnotized plasma of the |
| SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 4, 1966, | 588-594 |
| TOPIC TAGS: plasma magnetic field, plasma oscillation, pla radiation, charged particle, | sma wave, Cerenkov |
| ABSTRACT: The author extends his earlier calculations (2hT Cerenkov radiation of a charged particle moving parallel to in a plasma to take account of the effects of ion motions. ficant at frequencies of the order of the ion Larmor freque is predominant when the ion Larmor frequency is comparable The calculations are performed as in the earlier paper, the which are freely used without repeating the derivations or, nitions. The ion motions are taken into account by suitabl expression for the dielectric tensor. The corresponding di branches, for three of which, corresponding to Alfven waves | an external magnetic field Ion motions are signi- incy, and their influence with the plasma frequency. In notation and results of in some cases, the defi- y modifying the earlier spersion equation has five |
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| little influer Critical veloc rived, and the ranges are tak emit two coner both of which are present, the plasma. H | nary waves, the refractive index can exc ace on the extraordinary waves and these sities of the particle for radiation of d characteristics of the Cerenkov radiation bulated. An ultrarelativistic particle i of Cerenkov radiation of the same frequ carry off energy from the particle; in a one of them corresponds to absorption of Extraordinary waves are responsible for m | are not discussed further. ifferent types of waves are de- on in the different velocity n a strong magnetic field can ency but of different types, ll other cases when two cones energy by the particle from ost of the energy loss of the | - |
| of the energy | mparatively weak magnetic fields; fast m in stronger magnetic fields, and Alfven | waves are the most significant | |
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