"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

RUMANIA / Chemical Technology. Chemical Products and Their Application. Plastics. H-29

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 3041.

Author : Asnas, S.
Inst : ~~Not given.~~
Title : The Application of Polyvinyl Chloride Plasticizer in a Communication System.

Orig Pub: Tehn. noua, 1958, 5, No 151, 5.

Abstract: A comparison is given concerning the physical-chemical and dielectric properties of polyvinyl chloride plasticizer (I) and rubber (II) which are used in the communication system. It is pointed out that I is superior to II, particularly in respect to the diffusion coefficient value and water resistance (II after being kept in water for 2040 hours loses the insulating

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SENZYUK, K.D.; BERLIN, S.S.; ASNER, B.G. [Asner, B.H.]; KUZ'MITSKIY, V.M. [Kuz'myts'kyi, V.M.]; ARSENT'IEV, Ye.D. [Arsent'iev, IE.D.]; SHIMANSKAYA, G.G. [Shymans'ka, H.H.]; PINSKIY, A.Ye. [Pyns'kyi, A.IE.]; KHOMENKO, A.I.; GAMPEL', A.O. [Hampel', A.O.]

Proposals of efficiency promoters. Leh.prom. no.4:46-52 O-D '62. (MIRA 16:5)

(Kiev--Knit goods industry--Technological innovations)
(Odessa--Knit goods industry--Technological innovations)
(Kiev--Cotton manufacture--Technological innovations)

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SENZYUK, K.D.; BERLIN, S.S.; ASNER, B.G. [Asner, B.H.]; KUZ'MITSKIY, V.M. [Kuz'myts'kyi, V.M.]; ARSENT'YEV, Ye.D. [Arsent'iev, IE.D.]; SHIMANSKAYA, G.G. [Shymans'ka, H.H.]; PINSKIY, A.Ye. [Pyns'kyi, A.IE.]; KHOMENKO, A.I.; GAMPEL', A.O. [Hampel', A.O.]

Proposals of efficiency promoters. Leh.prom. no.4:46-52 O-D '62. (MIRA 16:5)

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AKSEL'BAND, A.M., dotsent, nauchnyy sotrudnik; KRAVCHENKO, N.A., inzh., nauchnyy sotrudnik; ASNER, B.G., rabotnik

Reducing the static electricity buildup of yarn made from rayon and synthetic fibers. Tekst. prom. 24 no.4:70-72 Ap '64. (MIRA 17:6)

1. Odesskiy institut inzhenerov Morskogo flota (OIIMF) (for Aksel'band, Kravchenko). 2. Odesskaya trikotazhnaya fabrika imeni N.K. Krupskoy (for Asner).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNER, B.T.; MEZENTSEVA, V.V., inzh.

Experience in the manufacture of hosiery cut from knit cloth. Tekst. prom. 25 no.10:41-44 O '65. (MIRA 18:10)

1. Nachal'nik eksperimental'noy laboratorii Odesskoy trikotazhnoy fabriki imeni Krupskoy (for Asner). 2. Eksperimental'naya laboratoriya Odesskoy trikotazhnoy fabriki imeni Krupskoy (for Mezentseva).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNER, L., (g.Krichev).

Mechanized production of pressed slate. Stroi. mat. 2. no.10: 29-30 O '56. (MIRA 12:3)

1.Glavnyy inzh. Krichevskogo shifernogo zavoda.
(Slate)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNER, Yu.Z.

Clinical and bacteriological data on the treatment of chronic pericementitis by means of ultrasonic waves. Stomatologiia 42 no.2: 24-25 Mr-Ap'63 (MIRA 17:3)

1. Iz polikliniki No.3 (glavnyy vrach K.P.Chikanov) Otdela zdravookhraneniya Moskovskogo gorodskogo Soveta deputatov trudyashchikhsya.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNES, A. M.

USSR/Miscellaneous - Industrial processes

Card 1/1 Pub. 103 - 11/22

Authors : Asnes, A. M.; Grebenchuk, B. I.; and Vlasov, V. P.

Title : Knurling instead of buffing of shaft necks

Periodical : Stan. i instr. 12, 26-27, Dec 1954

Abstract : The qualitative and economical advantages derived from knurling of shaft necks instead of buffing are listed. The construction of a knurling arrangement and its mode of operation are described. Table; drawing; illustration.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNES, A.M.

USSR/ Engineering - Methods

Card 1/1 Pub. 128 - 10/23

Authors : Asnes, A. M.; Grebenchuk, B. I.; and Vlasov, V. P.

Title : The milling of shaft journals in place of polishing

Periodical : Vest. mash. 2, 48 - 50, Feb 1955

Abstract : A description is presented of a knurling roller made of ShKh-15 steel, hardened to 62 - 64 R_c., for milling shaft journals up to 8 and 9 degrees of surface smoothness. Table; drawings.

Institution: .....

Submitted: .....

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNES, M.I., glavnyy vrach klinicheskoy bol'nitsy (g.Stalino)

Participation of the province clinical hospital in medical services to the urban population. Sov.zdrav. 15 no.5 supplement: 19-20 O '56. (MIRA 10:1)

(OUTPATIENT SERVICES
in hosp. in Russia)
(HOSPITALS
outpatient serv. in hosp. in Russia)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNES, M.I.

ASNES, M.I.

Work practice of a district hospital. Sov.zdrav. 16 no.9:34-38 S '57. (MIRA 10:12)

1. Glavnyy vrach TSentral'noy oblastnoy klinicheskoy bol'nitsy (g. Stalino)

(PUBLIC HEALTH
in Russia, tasks & work of district hosp.)
(HOSPITALS
in Russia, pub.health serv. of district hosp.)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNES, M.I. (Donetsk)

Medical care at home. Sov.zdrav. 21 no.12:3-6 '62. (MIRA 15:12)

1. Iz Donetskoy tsentral'noy klinicheskoy bol'nitsy (glavnyy vrach V.D.Bayda).

(MEDICAL CARE)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIN, David Iosifovich

DECLASSIFIED

1964

Epidemiology

c. '63

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

TALALAYEVA, A.V. (Moskva); ASNIN, D.I. (Moskva)

Diagnosis of actinomycosis in tissues. Arkh. pat. no.11:71-74 '64. (MIRA 18:11)

1. Otdel bor'by s aktinomikozom Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye. I. Martsinovskogo (direktor - deystvitel'nyy chlen AMN SSSR prof. P.G. Sergiyev) i patologoanatomicheskoye otdeleniye (zav. - kand. med. nauk Z.V. Gol'bert) Gosudarstvennogo onkologicheskogo instituta imeni P.A. Gertsena (Direktor - prof. A.N. Novikov).

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

L 19280-63 EWT(1)/BDS/EEC-2/ES(v) AFFTC/ASD/AFMDC/ESD-3/APGC Pi-4/
Po-4/Pq-4/Pe-4 PT-2/GW

ACCESSION NR: AR3006921 S/0169/63/000/007/A041/A041

SOURCE: RZh. Geofizika, Abs. 7A190

AUTHOR: Asnin, L. M.

8/

TITLE: Disturbances in the F2 ionosphere layer during the period of sudden and gradual commencement magnetic storms

CITED SOURCE: Tr. In-ta zemn. magn., ionosfery* i rasprostr. radiovoln. AN SSSR, ch. 1, vy*p. 20, 1962, 128-136

TOPIC TAGS: magnetic storm, gradual commencement, sudden commencement, ionosphere, Arctic and Antarctic Institute, corpuscular flow

TRANSLATION: The problem of the change in fo F2 during magnetic storms with sudden (SC) and gradual (G) commencements is examined. Ionosphere data from station Moskva (Moscow) during the period 1949-1953 is used. The selection of the magnetic storms was done according to the catalog of the AANII (Arctic and Antarctic Scientific Research Institute). It was found that moderate SC-storms are accompanied by a signifcant decrease in fo F2 and that for G-storms such a

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L 19280-63
ACCESSION NR: AR3006921

decrease in frequency is not very likely. Large SC- and G-type storms are accompanied by a decrease in fo F2. The theory is expressed that these and other known differences in type SC and G storms are the result of differences in the physical properties of the corpuscular fluxes causing them.

DATE ACQ: 15 Aug 63 SUB CODE: AS ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIN, S.Ya.

Work in controlling diphtheria in Smolensk Province. Zdrav. Ros. Feder. 5 no.11:15-20 N '61. (MIRA 14:10)

1. Iz Smolenskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(SMOLENSK PROVINCE--DIPHTHERIA--PREVENTION)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIN, V.I.

Scientific work of the psychological faculty of Kharkov State Pedagogical Institute. Vop.psikhol.2 no.3:113-114 My-Je '56. (Psychology) (MLRA 9:9)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

L 18009-63 EWT(1)/EWG(k)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3 Pz-4
AT/JD

ACCESSION NR: AP3001290 S/0181/63/005/006/1730/1732

69
65

AUTHORS: Asnin, V. M.; Rogachev, A. A.

TITLE: Dependence on the width of the forbidden band in germanium on the concentration of current carriers

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1730-1732

TOPIC TAGS: forbidden band, current carrier, emission spectrum, Ge, semiconductor, diffusion coefficient, current density, recombination, carrier concentration

ABSTRACT: Results are given of experimental study on the spectrum of recombination emission in Ge at a high injection level. Nonequilibrium carriers were produced by application of current pulses in a forward direction toward the Ge diode. The recombination emission was plotted against current density, and it was found that increase in current density shifted the long-wave edge of emission toward lower energy. To prove that this shift was not due to heating of the sample during passage of current, spectra were observed for different frequencies and durations of current pulses, and it was established that the shape of the spectrum did not change for pulse durations ranging from 5 to 10 microseconds or for frequencies ranging from 0.5 to 4 kilocycles. Because of a decline in

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ACCESSION NR: AP3001299

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diffusion coefficient the rate of increase in current-carrier concentration during increase in current density may prove to be less than expected. It is noted that if the condition

$$\frac{e}{4\pi\sigma} \ll \frac{\hbar}{E_g}$$

(where σ is conductivity and E_g is width of the forbidden band in the semiconductor) is not fulfilled, the forbidden band determined by electrostatic interaction of carriers will manifest constriction only during emission, not during absorption. This condition in Ge is met if the electron concentration exceeds 3×10^{18} per cm^3. "The authors express thanks to S. M. Ry*vkin for valuable counsel during the performance of their work and to V. L. Bonch-Bruyevich and L. V. Keldy*sh for useful discussions." Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physical and Technical Institute, Academy of Sciences, SSSR)

SUBMITTED: 28Jan63 DATE ACQ: 01Jul63 ENCL: 00

SUB CODE: PH NO REF SOV: 001 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIN, Ya. I.

CA

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Analytical method for calculating the drying process. Ya. I. Asnin and A. M. Lastovtsev. *Khim. Mashinostroenie* 6, No. 4, 23-7(1937); *Chem. Zentr.* 1938, I, 1173. The following equations are developed for calcg. the moisture content of the drying air upon entrance (d_0) and exit (d_1) from the dryer, using values for the temp. of the air as it enters (t_1) and as it leaves (t_2), the heat content of the water vapor at the latter temp. (i''_2) and the heat loss Δ in Cal. per hr.: $d_1 = [(240 + 0.47\, d_0)(t_1 - t_2)/(i''_2 - \Delta)] + d_0$; and $d_0 = [d_1(i''_2 - \Delta) - 240(t_1 - t_2)]/[0.47(t_1 - t_2) + (i''_2 - \Delta)]$. The analytical method based on these equations has the advantages of greater accuracy and simplicity over the graphical method. W. A. Moore

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIN, YA. I.

22943 O raschete protsessov absorbtsii khorosho rastvorimykh gasov. Trudy khark. Khim.-Tekhnol. In-ta im. Kirova, Vyp. 7, 1949. C. 197-200

SO: LETOPIS' NO. 31, 1949

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

SOV/124-58-8-8805

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 67 (USSR)

AUTHOR: Asnin, Ya.I.

TITLE: The Calculation and Design of an Ejector Pump to be Used to Mix a Liquid in an Apparatus (Konstruktsiya i raschet ezhektora, prednaznachennogo dlya peremeshivaniya zhidkosti v apparate)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 13, pp 129-133

ABSTRACT: For better mixing of a liquid in an apparatus the author proposes to make use of the kinetic energy of the jet emitted from an ejector pump. Therefore, an ejector pump used to mix a liquid in an apparatus is not equipped with an outlet diffuser and consists only of a high-pressure nozzle and a mixing chamber. The author gives an account of a hydraulic method for calculating an ejector pump operating in a cylindrical mixing chamber and not equipped with an outlet diffuser. Fundamental equations are evolved for calculations based on the assumption of an incompressible liquid flow. With the aid of these equations it is possible to select the most suitable basic shape and dimensions for an ejector pump intended for the use

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SOV/124-58-8-8805

The Calculation and Design of an Ejector Pump (cont.)

described. Considerations are expressed relative to the selection of a material for a high-pressure nozzle for an ejector pump installed in a vessel of large volume for the purpose of stirring liquid suspensions having fairly high contents of suspended solid particles. Bibliography: 4 references.

Yu.A. Lashkov

Card 2/2

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

06218

5(1) 25(5) SOV/64-59-6-10/28

AUTHORS: Atroshchenko, V. I., Doctor of Technical Sciences, Asnin, Ya. I., Candidate of Technical Sciences, Vilesov, G. I., Nikitskaya, Z. A., Rabin, P. S.

TITLE: Removal of Salt From Industrial Condensates of Nitrogen Fertilizer Enterprises by Means of Ion Exchange Resins

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 6, pp 499 - 501 (USSR)

ABSTRACT: The vapor condensate of the evaporators used in the nitrogen fertilizer industry is contaminated with NH_4^+ and NO_3^- ions and has to be purified prior to its further use (as a steam boiler feed). Experiments carried out under the supervision of B. D. Bryanskiy (deceased) showed that by means of ion exchange resins it is not only possible to remove salt from the condensate but to re-use the ammonium nitrate obtained if the cation exchanger is regenerated with nitric acid and the anion exchanger with an ammonia solution. Among the investigated cation exchangers the type KU-2 proved to be best; in this case the regeneration takes place by means of a

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ATROSHCHENKO, V.I., doktor tekhnicheskikh nauk; ASNIN, Ya.I., kand.tekhn. nauk; NIKITSKAYA, Z.A.

Investigation of the stability of KU-2 and AH-2F ion exchangers used in the filtration of concentrated solutions. Khim. prom. no. 7:551-553 O-N '60. (MIRA 13:12)

(Ion exchange)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

S/649/61/000/139/005/018
1028/1228

24.5200

AUTHOR: Asnin, Ya. L.

TITLE: Thermal similitude, convective heat exchange and entropy

SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961 Teoriya podobiya i yeye primeneiye v teplotekhnike; trudy pervoi mezhvuzovskoy konferentsii, 78–81

TEXT: The existing criteria of thermal similitude (Nu, Re, Pr, Pe) are found by the author to be unsatisfactory for the treatment of data on heat transfer, and new criteria are derived. As starting points are used, instead of the Navier-Stokes equations of motion and the equation of continuity, the laws of thermodynamics and the equation of heat transfer. The following three non-dimensional criteria are obtained: φ = criterion of convective heat transfer, F/w = criterion of geometric similitude, S = criterion of thermodynamic similitude. The following relationships between the criteria, valid for gases, liquids, and liquid metals, are determined experimentally:

$$\varphi = S^{12.5}(F/\omega)^{-0.9} \quad (5)$$

for processes of cooling of the heat carriers, and

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIN, Yakov Isaakovoch; BUKHANTSEV, G.V., kand. tekhn. nauk, otv. red.; POPOV, V.N., red.; TROFIMENKO, A.S., tekhn. red.

[Thermal similarity, convective heat exchange and entropy] Teplovoe podobie, konvektivnyi teploobmen i entropiia. Izd-vo Khar'kovskogo gos. univ., 1962. 112 p. (MIRA 15:10)
(Heat--Transmission)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIN, Ya. I. (Kharkov polytechnical institute)

"The method of application of entropy in theories of thermalsimilarity and new criteria developed by him."

Report presented at the Section on Thermodynamics, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651. 19 May 1964.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ATROSCHENKO, V.I., doktor tekhn.nauk; ASNIN, Ya.I., kand.tekhn.nauk; NIKITSKAYA, Z.A.

Investigating the possibility of the repeated use of a part of wash waters in desalting units. Khim.prom. no.1:66-68 Ja '61. (MIRA 14:1)

(Saline waters—Demineralization)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

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GA

ASNINA, F.I.

10

N-Arylthiazolocyanines. A. I. Kiprianov, F. I. Asnina, and I. K. Usbenko. *J. Gen. Chem.* (U.S.S.R.) 18, 165-70(1948)(in Russian).—Using the method of Todd, Berger, and Karimullah (*C.A.* 30, 3431[1]), $ClCH_2Ac$ with MeCS derivs. of $PhNH_2$, 1-$C_{10}H_7NH_2$, *p*-anisidine, and *p*-$H_2NC_6H_4NMe_2$, gave the corresponding thiazolium perchlorates which were used as starting materials for the following prepns. (no data given on the above). 3-Phenyl-2,4-dimethylthiazolium perchlorate (1 g.), 1 g. $HC(OEt)_3$, and 5 ml. pyridine were refluxed 1.6 hrs.; on cooling, the unreacted thiazolium compd. sepd., while the filtrate on addn. of H_2O and Et_2O gave 1.1 g. (14%) *bis(3-phenyl-4-methyl-2-thiazole)trimethinecyanine perchlorate*, decomp. 232° (from 30% EtOH), brown, with absorption max. 566 mμ in EtOH. Similarly, 1-(1-naphthyl)-2,4-dimethylthiazolium perchlorate gave 9% *bis(3-(1-naphthyl)-4-methyl-2-thiazole)trimethinecyanine perchlorate*, decomp. 258° (from 40% EtOH), absorption max. 500 mμ. Analogously, 1-(*p*-methoxyphenyl)-2,4-dimethylthiazolium perchlorate gave *bis(3-(p-methoxyphenyl)-4-methyl-2-thiazole)trimethinecyanine perchlorate* (low yield), dark needles, decomp. 238° (from 40% EtOH), absorption max. 565 mμ, while 1-(*p*-dimethylaminophenyl)-2,4-dimethylthiazolium perchlorate gave deep blue needles of *bis(3-p-dimethylaminophenyl-4-methyl-2-thiazole)trimethinecyanine perchlorate*, decomp. 247° (contains some water of crystn.), absorption max. 508 mμ. Refluxing 0.5 g. 3-phenyl-2,4-dimethylthiazolium perchlorate, 0.23 g. β-anilinoacrolein anil-HCl, 3 ml. pyridine, 0.6 g. NaOAc, and 3 drops Ac_2O for 10 min., followed by addn. of aq. alc., gave 17% *bis(3-phenyl-4-methyl-2-thiazole)pentamethinecyanine perchlorate* (from

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0% EtOH), absorption max. 657 mμ. Boiling 0.6 g. 3-henyl-2,4-dimethylthiazolium perchlorate, 0.77 g. 3-[2-*N*-phenylacetamido)vinyl]-2-benzothiazole-EtI, and 5 ml. yridine 0.5 hr., followed by cooling, gave 18% *(3-phenyl-methyl-2-thiazole)(3-ethyl-2-benzothiazole)trimethine-anine perchlorate*, decomp. 230° (from EtOH), absorp-ion max. 558 mμ. Similar reaction with 3-(1-naphthyl)-,4-dimethylthiazolium perchlorate gave *[3-(1-naphthyl)-methyl-2-thiazole](3-ethyl-2-benzothiazole)tri-ethinecyanine perchlorate*, green powder (from 1:1% :tOH), 15%, absorption max. 562 mμ. Boiling 5.25 g. -methyl-3-phenylbenzothiazolium iodide, 4 g. diphenyl-ormamidine, and 10 ml. Ac_2O 10 min., followed by addn. f 25 ml. Et_2O, gave deep red *3-[2-(N-phenylacetamido)-inyl]-3-phenylbenzothiazolium iodide*, m. 210° (30%); this 1 g.) and 0.54 g. 2,4-dimethylthiazole-EtI boiled 40 min. in ml. pyridine, followed by addn. of 25 ml. Et_2O and wash-ng of the ppt. with hot alc., gave 17% deep red *(3-henyl-2-benzothiazole)(3-ethyl-4-methyl-2-thia-ole)trimethinecyanine iodide*, m. 246° (from alc.), absorp-ion max. 538 mμ; the mother liquor yielded a 2nd pig-ment of unknown nature, decompg. 234°, absorption max. 44 mμ, and contg. 4.94–5.1% N. If the form of the un-ym. pigment having the onium structure on the alkyl-hiazole nucleus is named A, while the corresponding form vith the onium N in the benzothiazole part of the mol. is amed B, the following relations are established: (1) with R_1 (group on the N on alkylthiazole) = Et, and R_2 (similar roup on the N of the benzothiazole part) = Et, the hyp-ochromic shift is 14 mμ, and structure A predominates ver B; (2) R_1 = Ph, R_2 = Et, gives a 4-mμ shift and A is almost equiv. to B; (3) R_1 = naphthyl, R_2 = Et, give 0 shift and A is equiv. to B; (4) R_1 = Et, R_2 = Ph, gives 21-mμ shift and A predominates over B. G. M. K.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNINA, F. I.

USSR/Chemistry -Cyanine Dyes
Chemistry- Cyanines

Feb 1948

" N-Arythiazolcyanines," A. I. Kiprianov, F. I. Asnina, I. K. Ushenko, Inst Org. Chem, Acad Sci USSR , 5¼ pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 2

Todd's Bergel's, and Karimullah's methods were used in condensation of chloracetone with thioacetone produced aniline, alpha-naphthylamine, p-anisidine, and p-aminodimethylaniline. As a result authors obtained perchlorates of 3-phenyl-,3-alpha-naphthyl, and 3-p-dimethylaminophenyl-2,4- dimethylazole. By synthesis these produced symmetrical and asymmetrical cyanide dyes. Established strong effect of radical in heteroatomic nitrogen on absorption of asymmetrical carbocyanide, which contains thiozole and benzthiozole nucleus. Submitted 23 Sep 1946.

PA 68T49

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

1. MAN'KOVSKAYA, N. K., ASNINA, F. I.

2. USSR (600)

4. Chromatographic Analysis

7. Using a chromatographic method for separating products of paraffin oxidation during investigation. Masl. zhir. prom. 17, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNINA, F.I.

New antioxidants and emulsifying agents for edible fats. Trudy UNIIPP no.2:113-119 '59. (MIRA 14:1)
(Oils and fats, Edible)
(Antioxidants) (Emulsifying agents)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

SHTURMAN, A.A., YEPOYAN, A.S.; ASHINA, F.I.; BATOVSKAYA, T.A.

Models of current conducting plastics. Mashinostroitel' no.9:41 S '62. (MIRA 15:9)

(Plastics)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

FILARETOV, G.A.; STAFEYEV, V.I.; CHERKASHIN, G.A.; LUR'YE, M.S.; KUENOV, Yu.Z.; ASNINA, Zh.S.

Study of the negative impedance of Al_2O_3-- metal contacts.

Radiotekh. i elektron. 11 no. 2:298-301 F '66

(MIRA 19:2)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

L 27521-66 EWT(1)/EWT(m)/EWP(t) IJP(c) JD/HW/JG/JH

ACC NR: AP6007508 SOURCE CODE: UR/0109/66/011/002/0298/0301

AUTHOR: Filaretov, G. A.; Stafeyev, V. I.; Cherkashin, G. A.; Lur'ye, M. S.; Bubnov, Yu. Z.; Asnina, Zh. S.

ORG: none

56
B

TITLE: Investigation of the negative resistance of Al_2O_3-metal contacts

SOURCE: Radiotekhnika i elektronika, v. 11, no. 2, 1966, 298-301

TOPIC TAGS: semiconductor, semiconductor device, semiconductor research

ABSTRACT: The N-type negative-resistance region of Al_2O_3-Me contacts was investigated by measuring current-voltage characteristics of film-type contacts in which the thickness of the dielectric varied from 100 to 500 Å. The Al_2O_3 layer was formed by oxidizing Al films obtained on glass by vaporization in vacuum. The upper electrode was formed by vacuum-spraying Cu, Sn, In, Au, Ni, Al. Measurements were conducted in air and in vacuum. With In, Al, Sn electrodes, the negative resistance was observed with both polarities of the applied voltage; with the Al electrode, the negative resistance could be detected only in vacuum. With Cu, Ni,

Card 1/2 UDC: 621.382.27.001.5

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

L 27521-66

ACC NR: AP6007508

Au electrodes, the negative resistance was observed only in the forward branch of the current-voltage characteristic. In all cases, the maximum current decreased and the negative resistance increased with the increasing layer thickness. Qualitatively, the I-V function could be explained by the Schottky emission law. Electron capture by multicharge centers is assumed to be responsible for the mechanism of the negative resistance. Orig. art. has: 5 figures.

SUB CODE: 09, 20 / SUBM DATE: 16Nov64 / ORIG REF: 002 / OTH REF: 001

Card 2/2 BLG

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

A

K

32b-102. Applicability of Automatic Structural Welding of Low-Carbon Steels at Low Temperatures. (In Russian.) B. I. Medovar and A. E. Asnis. *Avtogennoe Delo* (Welding), Dec. 1947, p. 15-17.

Testing of a specimen welded under normal conditions and one welded at −20° C. showed 15 to 20% lower impact strength of the latter. However, cold brittleness was not increased.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

PROCESSES AND PROPERTIES INDEX

B

7

Automatic Arc Welding of Structures of Low Carbon Steel at Subnormal Temperatures. B. I. Medovar and A. E. Asnis. Henry Brutcher (Altadena, Calif.), Translation No. 2162, 1948, 14 pages. From *Avtogennoe Delo* (Welding), v. 18, no. 12, 1947, p. 15-17.

Previously abstracted from original source under title: "Applicability of Automatic Structural Welding of Low-Carbon Steels at Low Temperatures."

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

PROCESSES AND PROPERTIES INDEX

13

B

94. **Evaluation of Steel for Welded Structures to be Exposed to Low Temperatures.** (In Russian.) A. E. Asnis. *Zavodskaia Laboratoriya* (Factory Laboratory), v. 13, Sept. 1947, p. 1100-1105.

Proposes a specially developed, welded, test specimen, the impact strength of which is claimed to indicate satisfactorily the applicability of steels for structural use at temperatures as low as —45°C. Gives specifications for the specimens, describes the test method, and gives test results for a series of 6 steels, compositions of which are given.

Inst. Electric Welding im. Ye. O. Paton, AS Ukr. SSR

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

Asnis, A. Ye. and Mosover, B. I. "Automatic flux welding of stainless chrome-nickel steel", Trudy po avtomat. svarke pod elyusom (In-t elektrosvarki im. Patona), Collection 2, 1948, p. 24-46, - Bibliog: 9 items.

SO: U-2261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

MEDOVAR, B.I.; ASNIS, A.Yu.

Automatic welding under flux of stainless chromium-Ni steel.
Dop.AN URSR no.3:60-67 '48. (MLRA 9:9)

1.Institut elektrozvaryuvannya imeni E.O.Patona Akademii nauk Ukrains'koi RSR. Predstavleno diysnim chlenom AN URSR E.O.Patonom.
(Steel, Stainless--Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. YE.

Asnis, A. Ye. "The use of compressed gas in metal cutting and welding", Trudy po avtomat. svarke pod flyusom (In-t elektrosvarki im. Patona), Collection 3, 1948, p. 70-77.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

MEDOVAR, B.I.; MAKARA, A.M.; ASNIS, A.Yu.

Effect of small titanium and aluminum additions on the structure and properties of seams in aut omatic welding. Dop.AN URSR no.4:41-49 '48. (MIRA 9:9)

1.Institut elektrozvaryuvannya imeni Ye.O.Patona Akademii nauk Ukrains'koi RSR. Predstavleno diysnim chlenom AN URSR Ye.O.Patonom.
(Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

Medovar, B. I. and Asnis, A. Ye. - "On determining the grain structure of cast steel at seams of automatic weld," Doklady Akad. nauk Ukr. SSR, No. 6, 1948, p. 25-29, (In Ukranian, resume in Russian), Bibliog: 5 items

SO: U-4355, 14 August 53, (Letopis 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS. A. YE.

Asnis. A. Ye. "Automatic flux welding of worn surfaces", Trudy Vsesoyuz. konf-tsii po avtomat. svarke pod flyusom, 3-6 October 1947, Kiev, 1948, p. 75-83.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye

Asnis, A. Ye, and Kasatkin, B. S. "Low-carbon steel for welded bridges", Trudy Vsesoyuz. konf-tsii po avtomat. svarke pod flyusom, 3-6 October 1947, Kiev, 1948, pp. 97-108.

SO: U-3261, 10 April 53 (Letopis 'Zhurnal 'nykh Statey No. 11, 1949)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

27740. LYUBOV, B. Ya.--Vychisleniye skorosti rosta zarodysha ferrita pri izotermicheskom raspade austenita. v sb: Problemy metallovedeniya i fiziki metallov. M., 1949, S. 316-21

ASNIS, A. Ye. i MEDOVAR, B. I. --Vliyaniye primesi medi na sklonnost' svarnykh shvov k stareniy. Sm 27760

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.

Variation of the form of the nozzle duct in order to reduce oxygen flow during gas cutting. Dop.AN URSR no.3:22-24 '49. (MLRA 9:9)

1. Institut elektrozvaryuvannya AN URSR. Predstaviv diysniy chlen AN URSR Ye.O.Paton.

(Gas welding and cutting)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

ASNIS, A. E. i MEDOVAR, B. I.

25751

Osobenosti avtomaticheskoy svapki dvukhsloynoy stali. Trudy po avtomat. svarke pod flyusom (in-t elektrosvarki im Patona) sb. 6, 1949, s. 63-80. - Bibliogr: 20 nazv.

SO: Letopis' No. 34

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. E.

26308 I gutman, L. M. Izgotoyleniye shchek kamnedrobilok pri pomoshchi aytomaticheskoy syarki pod flyusom. Mekhaniza--tsiya stroit-ya, 1949, No. 8 s. 22-24

SO: LETOPIS' NO. 35, 1949

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye. I MYEDOVAR, B. I.

29051

Vliyaniye Mikrostruktury, Raspolozhennoy Pod Nadryezom, Na Udarnuyu Vyazkost' Ispytuyemogo Syezhyeniya. Zavodskaya Laboratoriya, 1949, No 9, C. 1102-03. Bibliogr: 5 Nazv.

SO: LETOPIS' No. 34

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

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1ST AND 2ND ORDER

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

K

22B-273. Determination of Microstructure of Stainless-Steel Weld Seams on the Basis of Microhardness. (In Russian.) B. I. Medovar and A. E. Asnis. *Zavodskaya Laboratoriya* (Factory Laboratory), v. 15, May 1949, p. 570-571.

It was found that the presence of carbides increases the tendency of the weld metal toward intercrystalline corrosion and sharply decreases its plasticity. Chromium carbides may be differentiated from the ferrite component by microhardness determination. Therefore, this technique is recommended for more complete characterization of the quality of the weld.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

Asnis, A. Ye. - "Oxygen cutting of samples with water cooling," Trudy po avtomat. svarke pod flyusom (In-t elektrosvarki im Patona), Symposium 4, 1949, p. 69-74

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. YE.

Asnis, A. Ye. "An evaluation of the quality of automatic seams in stainless steel on the basis of their micro-hardness", Trudy po avtomat. svarke pod flyusom (In-t elektrosvarki im. Patona), Collection 5, 1949, p. 84-94, - Bibliog: 7 items.

SO; U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

PROCESSES AND PROPERTIES INDEX

13

Notched-Bar Impact Strength of Specimens as Affected by Microstructure Below the Notch. A. E. Asnis and B. I. Medovar. Henry Brutcher, Translation No. 2413, 5 pages. From *Zavodskaya Laboratoriya* (Factory Laboratory), v. 15, Sept. 1949, p. 1102-1103.

The above was investigated with respect to weldability of clad steel consisting of low-carbon steel clad with a thin layer of Cr-Ni stainless steel. It was found that the structure below the notch has a decisive influence on impact strength of the sections.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

VERETNIK, L.D.; ASNIS, A.Ye.

Heat treatment of welded blocks in diesel locomotives.
Avtom.svar. 15 no.10:57-62 O '62. (MIRA 15:11)

1. Khar'kovskiy zavod im. Malysheva (for Veretnik).
2. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (for Asnis).
(Diesel locomotives--Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. E.

Concerning the Quality of Welds Obtained by Automatic Welding Under Winter Conditions. (In Russian). D. I. Medov and A. E. Asnis. Avtogennoe Delo (Welding), v. 21, Aug. 1950, p. 1-8. The above was investigated for low-carbon steel of ordinary thicknesses. It was found that impact strength and brittleness, under the above conditions are essentially the same as under standard conditions. Probability of formation of pores and cracks increases due to increase of rate of cooling. Conditions under which welding at freezing temperatures is permissible were determined. Experimental data are tabulated and charted.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. YE.

USSR/Metals - Welding Aug 50

"Quality of Joints Made by Automatic Welding Under Winter Conditions," E. I. Medovar, A. Ye. Asnis, Candidates in Tech Sci, Inst of Elec Welding Imeni Acad Ye. O. Paton, Acad Sci Ukrainian SSR

"Avtogen Delo" No 8, pp 1-8

Describes experiments to determine effect of low temperatures on quality of low-carbon steel joints welded by automatic method. Concludes: automatic welding under flux of majority of structures made of low-carbon steel 20-25 mm thick can be done satisfactorily at temperatures below freezing. Minimum safe temperature must be established on basis of design and experimental data.

PA 167T67

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. YE., GUTMAN, L. M.

Welding ends of rails with compressed propanebutane gas. Avtom. svar. 4 No. 6, 1951.

SO: MLRA. June 1952.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

Cutting and welding of metals with natural Dashavskii and compressed gases, Kiev, Izd-vo Akademii nauk Ukrainskoi SSR, 1951

SO: MLRA. March 1952.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

USSR/Metals - Steel, Properties, Cold-Brittleness 1951

"Effect of Manganese on Cold-Brittle Tendency of Low-Carbon Steel," A. Ye. Asnis, Cand Tech Sci, L. M. Gutman, Sci Worker

"Avtomat Svarka" No 1 (16), pp 66-68

Impact tests conducted by Inst of Elec Welding imeni Ye. O. Paton for steels with Mn-C ratios in 2.2-5 range revealed that increased content of Mn, at same contents of C and Si, lowers tendency of steel to cold-brittleness. Threshold of steel cold-brittleness is below -60° C

202T82

USSR/Metals - Steel, Properties, Cold-Brittleness (Contd) 1951

at Mn/C ratio = 4.8; it is 40° C at Mn/C ratio = 2.8; and -20° C at Mn/C ration = 2.2.

202T82

ASNIS, A. YE.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS A E

Vibrational Strength of Welded Joints from Low Alloy and Low Carbon Steels [illegible]

[illegible] alloy steels for this purpose is not advantageous as the strength of welded joints from both kinds of steel is practically the same. Some data on testing joints from a low alloy steel of a new kind superior to those used at present are given. — V. G.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.

Incorrect approach in examining the vibration resistance of welded joints for building construction. Avtom.svar. 6 no.1:70-73 Ja-F '53. (MLRA 7:6)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Steel, Structural--Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.

Evaluating the vibration resistance of welded joints made from steel of greater strength. Avtom.svar. 6 no.2:66-72 Mr-Ap '53. (MLRA 7:5)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Steel--Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.

Strength of welded joints of low-alloy and low-carbon steels in repeated stroke tests. Avtom.svar. 6 no.6:40-44 N-D '53. (MIRA 8:4)

1. Institut elektrosvarki im.Ye.O.Patona Akademii nauk URSR.
(Steel--Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. YE.

PATON, B.Ye.; ASNIS, A.Ye.

Some causes of deterioration of welded gas-pipeline joints due to brittleness. Avtom.svar. 7 no.3:55-58 My-Je '54.(MLRA 7:7)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Gas pipes--Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. E.

The effect of gas-oxygen cutting on the surface of the cut. A. E. Asnis and A. S. Dem'yanchuk. *Avtomat. Svarka* 7, No. 3 (Vrbe No. 36), 65-73 (1954).—In an investigation of the effect of oxy-gas cutting of low-C and alloy steels it was found that the high-cutting temps. cause a pick-up of C, Ni, and Cu in the cutting area. Simultaneously the concn. of Mn, Si, and Cr shows a significant decrease. For a 0.17% C steel the C content increases to 0.70-0.80% in the vicinity of the cut edge. In a low-alloy steel the Ni increased from 0.5 to 30.5%. Preheating tends to prevent the pick-up of C, Ni, and Cu. J. R. Behrman

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.; AFONINA, G., redaktor; GOLOVCHENKO, G., tekhnicheskiy redaktor

[Oxygen cutting and welding of metals using acetylene substituting gases] Kislorodnaia rezka i svarka metallov gazami-zameniteliami atsetilena. Kiev , Gos.izd-vo tekh.lit-ry,USSR, 1955. 71 p. (MLRA 8:10)

(Oxyacetylene welding and cutting)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ya.: BELETSKIY, M.L., retzenzent, inzhener; SOROKA, M.S., redaktor; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Welding in repairing tractors and agricultural machinery] Svarochnye raboty pri remonte traktorov i sel'skokhoziaistvennykh mashin. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi litry, 1955. 156 p. (MLRA 9:3)

(Welding) (Agricultural machinery--Repairing) (Tractors--Repairing)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.

USSR/Engineering - Metallurgy

Card 1/1 Pub. 11- 10/11

Authors : Asnis, A. Ye., and Dem'yanchuk, A. S.

Title : The problem of diffusion of carbon to the surface of fused metal during oxygen cutting and welding

Periodical : Avtom. svar. 3, 98-102, May-June 1955

Abstract : Experiments were conducted to determine the diffusion of carbon to fused metal during oxygen cutting and welding, and to determine the influence of the rate of cooling of specimens on the chemical composition of metal. Chemical composition of steel specimens is given, and tests are briefly described. Ten references: 8 USSR, 1 German, and 1 USA (1929-1955). Illustrations; drawing; table.

Institution: Acad. of Sc., Ukr. SSR, Ye. O. Paton's Institute of Electric Welding

Submitted : January 15, 1955

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.; KOLENNOY, A.I.

Restoring worn-out crankshaft journals in tractor engines by mechanized hard facing under flux. Avtom.svar. 8 no.5:63-73 S-O '55. (MLRA 9:1)

1. Ordena Trudovogo krasnogo znameni institut elektrosvarki imeni Ye. O. Patona AN USSR.
(Crankshafts--Welding) (Hard facing)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye., kandidat tekhnicheskikh nauk (Kiyev); GUTMAN, L.M., nauchnyy sotrudnik. (Kiyev).

Building up under flux in local rolling of wheel bands. Zhel.dor. transp. 37 no.12:77-78 D '55. (MLRA 9:5)
(Wheels--Welking)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

RUBAKOV, Vladimir Vasil'yevich; GORPENYUK, N.A., kandidat tekhnicheskikh nauk, retsenzent; ASNIS, A.Ye., kandidat tekhnicheskikh nauk, redaktor; SCROKA, M.S., redaktor izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Gas welder's manual] Uchebnik gazosvarshchika. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 141 p. (MLRA 9:11)
(Gas welding and cutting)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.E.

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18 18

Cold Electric-Arc Welding of Cast Iron. A. E. Asnis and Yu. V. Latash. (*Letsinoe Proizvodstvo*, 1956, (1) January, 6-8). [In Russian]. The arc welding of cast iron using various single and bi-metal electrodes and without preliminary heating of the part is considered, with special reference to the metallographic aspect.—S. E.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

AID P - 4512

Subject : USSR/Engineering

Card 1/2 Pub. 11 - 10/12

Authors : Asnis, A. E., Z. O. Knyazhinskiy, et. al.

Title : New Methods of Mechanical Control, Tests and Inspections of Welded Straight-Seam Pipes of Large Diameter for Main Gas and Oil Pipelines.

Periodical : Avtom. svar., 2, 76-82, Mr/Ap 1956

Abstract : The authors describe tests given to welded metal, seam metal, adjacent-to-seam metal and to the whole welded joint by the latest mechanical methods of measuring the limits of yield and strength in flat samples of a pipe. New methods have significantly reduced the expenditures of finished pipes, and do not exclude further inspection by X-rays, Gamma-rays and hydraulic pressure. Two tables, 2 graphs and 2 drawings.

00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

Subject : USSR/Engineering AID P - 4838

Card 1/1 Pub. 11 - 11/13

Author : Asnis, A. Ye.

Title : Effect of local plastic deformation on strength of steel

Periodical : Avtom. svar., 88-94, Mr 1956

Abstract : The problems on the effects of riveting, shearing or piercing of low-carbon open-hearth and converted steel, its static and vibration strength, are briefly outlined and practical suggestions are given. Three tables, 4 graphs, 4 photos. 7 Russian references (1949-55).

Institution : Electrowelding Institute im. Paton

Submitted : No date

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 120 (USSR) SOV/137-57-6-10225

AUTHOR: Asnis, A. Ye.

TITLE: Causes of the Reduced Vibrational Strength of Welded Joints in Low-alloyed Steels (Prichiny ponizhennoy vibratsionnoy prochnosti svarnykh soyedineniy iz nizkolegirovannykh staley)

PERIODICAL: V sb.: Probl. dugovoy i kontakt. elektrosvarki. Kiyev-Moscow, Mashgiz, 1956, pp 310-318

ABSTRACT: Five different types of low-alloy steel (LAS) were investigated, also killed steel MSt.3 and a new type of Mn steel. All steels possessed a fine-grained structure evaluated at 5-7 units. The methods employed in the course of the investigation consisted of the following procedures: Deposition of bead welds on the surface of 12-mm thick specimens, the quantity of energy supplied per unit length of arc, q/v_c, being 5300 and 7200 cal/cm; macro and micro-studies; vibration testing of metal from the weld zone (WZ). Compared with the parent metal, the hardness of metal in the WZ of LAS, MSt.3 steel, and Mn steel increases by 20, 9, and 12% respectively. The lowest pearlite-ferrite microhardness ratio

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observed in the WZ of Mn steel and LAS amounts to 1.26 and 1.86, respectively. The σ_w of both the MSt.3 steel and Mn steel attains a value equivalent to 38% of the σ_s, whereas the σ_w of LAS does not exceed 24%. X-ray microstudies and a spectral analysis of the fracture surface demonstrated that the weld boundaries in the LAS suffer a reduction in their Cr and, partially, their Ni and Si contents; their Mn content, however, remains analogous to that of the parent metal. Practically no changes have been observed in chemical composition of the weld boundaries in Mn and MSt.3 steels. Experiments demonstrated that the vibrational strength of welded beams and semiframes of railroad trucks made of Mn steel is 20% higher than the strength of comparable welded assemblies made of LAS or MSt.3 steel.

V.B.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASHIS, A.; GUTMAN, L.; VENERAKI, B.

Electric arc-welding of trolley-bus steering knuckles. Zhil.-kom, khoz. 6 no.1:27 '56. (MLRA 9:5)
(Trolley buses)(Electric welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.; DEM'YANCHUK, A.S.; MOVCHAN, B.A.; POZNYAK, L.A.

More on the problem of carbon diffusion toward the surface of fused metal in oxyacetylene cutting. Avtom. svar. 9 no.6:83-86 N-D '56. (MLRA 10:3)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O.Patona. AN USSR.
(Gas welding and cutting) (Diffusion)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

KIRDO, Ivan Viktorovich; PATON, B.Ye., otvetstvennyy red.; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., red.; POGAYETSKIY, V.V., red.; RUDENSKIY, Ya.V., tekhn red.

[Soldering of metals] Paika metallov. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 45 p. (MIRA 11:7)
(Solder and soldering)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.

PODGAYETSKIY, Vladimir Vladimirovich; PATON, B.Ye., otvetstvennyy red.; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., kand. tekhn. nauk, red.; RUDENSKIY, Ya.V., tekhn. red.

[Quality control of welded joints] Kontrol' kachestva svarnykh soedinenii. Kiev, Gos. nauchno-tekhn. izd-vo mashino-stroit. lit-ry, 1957. 52 p. (MIRA 11:7)

(Welding--Testing)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

PATON, Boris Yevgen'yevich,; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., kand. tekhn. nauk, red.; PODGAYETSKIY, V.V., red.; RUDENSKIY, Ya.V., tekhn. red.

[Modern welding techniques] Sovremennaia svarochnaia tekhnika. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 98 p. (MIRA 11:11)

(Electric welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

BORT, Mikhail Mikhaylovich; VASIL'YEV, Grigoriy Vasil'yevich; GORPENYUK, Nikolay Antonovich; KOTVITSKIY, Anatoliy Dmitriyevich; ASNIS, A.Ye., kand.tekhn.nauk, retsenzent; KHRENOV, K.K., akademik, red.; SOROKA, M.S., red.izd-va; RUDENSKIY, Ya.V., tekhn.red.

[Gas welder's handbook] Spravochnik gazosvarshchika. Pod red. K.K.Khrenova. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 275 p. (MIRA 11:1)

1. AN USSR (for Khrenov).
(Gas welding and cutting)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A.Ye.; GUTMAN, L.M.

Alloying the deposited metal through flux for the control of porosities. Avtom.svar. 10 no.6:62-70 N-D '57. (MIRA 11:1)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.
(Electric welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

SEVBO, Platon Ivanovich; PATON, B.Ye., otv.red.; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., red.; PODGAYETSKIY, V.V., red.; RUDENSKIY, Ya.V., tekhn.red.

[Equipment for welding under flux] Oborudovanie dlia svarki pod fliusom. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 67 p. (MIRA 12:5)

(Electric welding--Equipment and supplies)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

25(1) PHASE I BOOK EXPLOITATION SOV/2621

Asnis, Arkadiy Yefimovich

Gazovaya svarka i rezka (Gas Welding and Cutting) Kiyev, Mashgiz, 1958. 86 p. (Series: Biblioteka svarshchika) 14,000 copies printed.

Ed. of this book: A.A. Kazimirov, Candidate of Technical Sciences; Tech. Ed.: Ya.V. Rudenskiy; Editorial Board: Arkadiy Yefimovich Asnis, A.A. Kazimirov, B.I. Medovar, B.Ye. Paton (Resp. Ed.), and V.V. Podgayetskiy; Chief Ed. (Ukrainian Division, Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This booklet is intended for workers in the gas-welding industry

COVERAGE: The author describes equipment and materials for gas welding and oxy-gas cutting of metals. He also discusses organization of the working place, effect of the welding flame on the metal, and the techniques of welding and oxygen cutting. He gives data on substitutes for acetylene gas and on the equipment

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required for their utilization in oxy-gas welding and cutting. A separate section is devoted to submerged oxygen cutting of chromium steels, cast iron and nonferrous metals. No personalities are mentioned. There are 26 references, all Soviet.

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APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

MEDOVAR, Boris Izraylevich; PATTON, B.Ye., otv.red.; ASNIS, A.Ye., kand.tekhn. nauk, red.; KAZIMIROV, A.A., red.; PODGAYETSKIY, V.V., red.; RUDENSKIY, Ta.V., tekhred.

[Electric arc welding of austenitic steels] Elektrodugovaia svarka austenitnykh stalei. Kiev, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 97 p. (MIRA 12:2)
(Steel alloys--Welding)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, Arkadiy Yefimovich, kand.tekhn.nauk; GUTMAN, Liya Mironovna, kand. tekhn.nauk; SERPENKO, Vasiliy Petrovich, kand.tekhn.nauk; CHUMACHENKO, Vasiliy Afinogenovich; GALANOVA, M.S., red.; VERINA, G.P., tekhn.red.

[Welding and hard facing under flux in the repair of locomotives] Svarka i naplavka pod fliusom pri remonte lokomotivov. Moskva, Gos. transp. zhel. -dor. izd-vo, 1958. 130 p. (MIRA 11:4)

(Welding)
(Locomotives--Maintenance and repair)
(Hard facing)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

ASNIS, A. Ye.

25(1) p.3 PHASE I BOOK EXPLOITATION SOV/1299

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Leningradskoye oblastnoye pravleniye

Prochnost' svarnykh konstruktsiy (Strength of Welded Structures) Moscow, Mashgiz, 1958. 147 p. (Series: Its: Sbornik, kn. 48) 4,000 copies printed.

Ed.: Okerblom, N.O., Doctor of Technical Sciences, Professor; Tech. Ed.: Sokolova, L.V.; Managing Ed. for Literature on Machine Building Technology (Leningrad Division, Mashgiz): Naumov, Ye.P., Engineer.

PURPOSE: This collection of articles is intended for engineers, plant technicians and scientific workers employed in planning and design bureaus and research institutes. It may also be of use to students taking advanced courses in welding.

COVERAGE: The book contains the principal reports of a conference held in Leningrad and sponsored by the Leningrad branch of the All-Union Scientific, Engineering and Technical Society (VNITO - Vsesoyuznoye nauchnoye inzhenerno-tekhnicheskoye obshchestvo) of

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welders. These reports deal with present-day problems connected with the strength, and endurance of welded structures and the effect of weld stresses. Each article is briefly commented on in the introduction. No personalities other than the authors of the articles are mentioned. There are 45 Soviet and 5 English references.

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Strength of Welded Structures SOV/1299

5. Asnis, A.Ye. On Vibration Strength of Welded Connections of Low-alloy Steels 55
6. Gokhberg, M.M. Fatigue Strength of Welded Metallic Structures 68
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9. Perlis, I.L. On the Effect of Some Manufacturing Defects in Welds on the Strength of Welded Connections 120
10. Pel'kevich, A.S. Strength of Welded Cylindrical Tanks 129
11. Shalagin, A.A. On the Causes of Brittle Fractures in Welded Structures of Hydraulic Mechanical Equipment 143

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102410011-1

SOV/137-59-3-5812

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 124 (USSR)

AUTHOR: Asnis, A. Ye.

TITLE: On the Vibrational Strength of Welded Connections of Low-alloy Steels (O vibratsionnoy prochnosti svarnykh soyedineniy nizkolegirovannykh staley)

PERIODICAL: V sb.: Prochnost' svarn. konstruktsiy. Moscow-Leningrad, Mashgiz, 1958, pp 55-67

ABSTRACT: A presentation of the results of experimental investigations in which the vibrational strength (VS) of welded connections (WC) of various domestic low-alloy steels (LAS) was determined and compared with analogous connections of mild steel. The vibration tests were performed on round specimens, flat specimens with a transverse weld, welded Nr-20 I-beams made of 12 mm thick steel in 4 m lengths, and full-scale joints in the trucks of all-metal railroad cars. It was established that the VS of WC's in LAS's with unfinished weld surfaces is identical to that of WC's in mild steel. An exception are the WC's in Mn steel which exhibit a greater (by 20%) VS. Fatigue cracks originate and expand primarily in the ferritic constituent. In the

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SOV/137-59-3-5812

On the Vibrational Strength of Welded Connections of Low-alloy Steels

weld zone, in the vicinity of the fusion boundary, the microhardness ratio of pearlite to ferrite amounts to 1.26 in the case of Mn steel and 1.58 in the case of other LAS's tested. The VS increases as the difference in hardness of the constituents diminishes. Near the fusion boundary the metal exhibits a decreased concentration of Cr and, partially, Ni and Si, i.e., the elements which tend to harden the ferrite. The concentration of Mn is the same as in the regions of parent metal which do not undergo any changes. This is one of the factors responsible for the relatively high VS of WC's of Mn steel. In the author's opinion the investigation performed permits establishing the causes of the reduced VS of WC's of LAS produced at the present time and makes it possible to develop measures for the elimination of this drawback.

M. K.

Card 2/2

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