SOV/96-59-11-7/22

The use of Dimensionless Criteria to Generalise the Results of Drop-size Measurements When Atomising Liquids in Centrifugal Nozzles

between film thickness and nozzle radius is given by expression (3). Various authors have published data about the liquids used and the methods of measuring drop sizes employed in tests with centrifugal nozzles. These data are tabulated and used for working out in dimensionless criteria. It will be seen that most of the work has been done on kerosene or molten paraffin wax. Construction of the empirical data for the ratio of drop size to film thickness as a function of the Weber criterion, with the other three criteria constant, shows that the data for kerosene and water do not lie on the same curves; the reasons for this are discussed. It is also shown that for kerosene, vapourisation of the drops before they are trapped has little influence on their dimensions. Graphs of the data of various authors for kerosene and molten paraffin wax are plotted. The results for water obtained by Consiglio and Sliepcevich in the USA are not of the same slope as the others, which indicates that their work is

Card 3/4

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SOV/96-59-11-7/22

The use of Dimensionless Criteria to Generalise the Results of Drop-size Measurements When Atomising Liquids in Centrifugal Nozzles

unreliable. Otherwise the experimental data for water and aqueous solutions of glycerine can be approximately represented by Eq (4) and those for kerosene and molten paraffin wax by Eq (5). The values of the constants used in these equations are given. These empirical formulae may be used to evaluate the median diameters of kerosene and water drops produced during atomisation in air of atmospheric density if the geometrical dimensions of the centrifugal nozzle and its operating conditions are known. There are 1 figure, 1 table and 15 references, 4 of which are Soviet, 9 English, 1 Czech, and 1 German.

ASSOCIATION: TSIAM

Card 4/4

DITYAKIN, YuiF.

S/179/60/000/02/008/032 E191/E281

Borodin, V. A., and Dityakin, Yu. F. (Moscow) AUTHORS:

On the Shape of the Liquid Film Produced by a Centrifugal TITLE:

Atomiser

Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh PERIODICAL:

nauk, Mekhanika i mashinostroyeniye, 1960, Nr 2,

pp 60-64 (USSR)

ABSTRACT: Reference is made to the investigation by Euteneuer, G.A., (Ref 5) on the effect of surface tension in the formation of hollow liquid jets. In his analysis, Euteneuer considered the dynamic equilibrium of a film element which led to the clarification of the wavy nature of the shape of the film as a function of the Weber number. Using the equation of equilibrium of a liquid film as derived by Euteneuer, an analysis of the equilibrium form of such a film is carried out. Starting from the

expression for the radial component of velocity of

Card 1/3 liquid particles in the film, and assuming that the axial

S/179/60/000/02/008/032 E191/E281

On the Shape of the Liquid Film Produced by a Centrifugal Atomiser

velocity component is approximately constant, an equation is derived for the surface of such a film (Eq (1.5)). Using the theory of the centrifugal atomiser and introducing the Weber number and non-dimensional co-ordinates referred to the radius at which the radial acceleration vanishes under equilibrium conditions, the equation for the surface of the film is obtained in non-dimensional form This equation is mathematically analysed to single out physically significant regioms in terms of the two non-dimensional parameters of which one is the ratio of the mean radius of the annular jet to the radius of zero acceleration and the other is the reciprocal of this ratio multiplied by the reciprocal of the third root of the Weber number. analysis makes it possible to evaluate the effect of the Weber number on the shape of the film. The film contours for different Weber numbers are shown on Fig 2. The larger the Weber number, the larger the apex angle, the maximum radius and the wavelength of the film

Card 2/3

S/179/60/000/02/008/032 E191/E281

On the Shape of the Liquid Film Produced by a Centrifugal Atomiser

surface. With increasing Weber number, the point of bursting of the film shifts nearer to the atomiser nozzle. Finally, after a short distance, the liquid forms a mist of droplets. Fig 3 shows the thickness of the film along the axis for different Weber numbers and Fig 4, the relation between the wavelength of the film surface and the Weber number. There are 4 figures and 5 references, 3 of which are Soviet, 1 German and 1 English.

SUBMITTED: November 20, 1959

Card 3/3

VB

s/179/60/000/03/019/039 E081/E441

AUTHORS:

Dityakin, Yu.F. and Yagodkin, V.I. (Moscow)

TITLE:

Potential Flow of a Liquid Entering a Plane Channel

Through Permeable Walls

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Mekhanika i mashinostroyeniye, 1960, Nr 🗦,

pp 126-131 (USSR)

ABSTRACT:

Fig 1 shows the scheme of flow of liquid in the channel. In many cases the supply velocity through the permeable walls AC, BD is constant or changes only slightly along the length of the wall. It is therefore assumed constant and equal to v_0 . The problem is analysed by

conformal transformation (Fig 2), complex variable

methods and elliptic integrals. The final equation found

for flow v_{η} along the permeable walls is Eq (2.10)

with λ given by Eq (2.11). Fig 4 shows the

relationship between $v_{\eta}/v_{0}\Lambda$ and λ/Λ for various values of Λ , calculated from Eq (2.10) and (2.11) Λ is given by Eq (1.2). For the larger values of Λ , the relationship is linear over the greater part of its

Card 1/2

S/179/60/000/03/019/039 E081/E441

Potential Flow of a Liquid Entering a Plane Channel Through Permeable Walls

length. There are 4 figures and 5 references, 3 of which are Soviet and 2 English.

SUBMITTED: February 10, 1960

Card 2/2

S/207/62/000/001/013/018 B108/B104

11.7420

AUTHORS: Borodin, V. A., Dityakin, Yu. F., Yagodkin, V. I. (Moscow)

TITLE: Disintegration of a spherical drop in a gas blast

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 1, 1962, 85 - 92

TEXT: The authors calculate the axially symmetrical perturbations of a drop of an ideal liquid moving in (or flowed around by) another ideal liquid. The coordinate origin is to be in the center of the spherical drop. Starting from the Laplace equation in spherical coordinates, the Weber's number and the shape of the perturbations are calculated (Table 2). Similar results have been obtained for the motion of a gas bubble in a liquid (Ref. 4, see below). The results show that the pressure distribution over the surface of the drop has only a slight effect on the splitting of the drop. This is due, however, to the assumption of a potential flow embedding the drop. The authors thank L. N. Britney for assistance in the calculations. There are 1 figure, 2 tables, and 8 references: 3 Soviet and 5 non-Soviet. The references to the English-Card

language publications read as follows: Hinze J. O. Amer. Inst. Chem. Eng. Journ., 1955, I, pp. 200 - 209; Isshiki N. Rept. Transp. Techn. Research Inst., 1959, no. 35; Ref. 4: Hartunian R. A., Sears W. R. Journ. Flund Mech., 1957, v. 3, Part I, pp. 27 - 47.

SUBMITTED: September 28, 1961

Table 2. Weber's number W and shape of perturbation.

Legend: (A) Shape of perturbation (either - or). (1) Motion in direction of stream, (2) splitting in the stream direction or formation of tore, (5) formation of two drops and a tore or of one tore, (4) formation of two drops and two tores or of one tore.

Card 2/1/2

s/0207/64/000/003/0100/0104

ACCESSION NR: APLOL1198

AUTHORS: Borodin, V. A. (Moscow); Dityakin, Yu. F. (Moscow); Yagodkin, V. I. (Moscow)

TITLE: Mechanisms of shattering of drops moving in gas flow

SCURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1964, 100-104

TOPIC TAGS: drop shattering, gas flow, ideal fluid, spherical drop, Weber number

ARSTRACT: In a previous paper (0 droblemili sfericheskoy kapli v gazovom potoke. PMTF, 1962, No. 1) the authors made a theoretical study of unstable axisymmetric forms of perturbations of a spherical drop of ideal liquid flowed around by another ideal liquid, leading to its shattering. There they used the method of small perturbations to solve the problem. They found the critical value of the Weber number and determined the forms of neutral perturbations. In the present paper they consider the case of intensifying perturbations and also their forms for various values of the Weber number. On the basis of equations from the previous work, they conclude that for values of the Weber number 1.63 < W < 1000 there are three possible forms of intensifying perturbations. From their deductions on the

ACCESSION NR: AP4041198

various forms of perturbations arising with motion of a liquid spherical drop in the medium of another liquid, they find that the essential role in the shattering process is played by the effect of oscillation and discontinuity on part of the liquid torus. They investigate the fact that the number of creats arising on the liquid torus can be two, three, or more, decreasing as the diameter of the torus decreases. Comparison of their results with experiments can be made for very slowly moving toruses. Orig. art. has: 4 figures and 13 formulas.

ASSOCIATION: none

SUBMITTED: 16Dec63

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SUB CODE: ME

L 22633-65 EWP(m)/EPF(n)-2/EWT(1)/EWA(d) Pd-1/Pu-4 WW ACCESSION NR: - AF5002865 S/0207/64/000/005/0059 0065

AUTHOR: Borodin, V. A. (Moscow); Britneva, L. N. (Moscow); Dityakin, Yu. F. (Moscow); Yagodkin, V. I. (Moscow)

TITLE: Breakup of liquid jet over lown by a gas stream

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no 5, 1964, 59-65

TOPIC TAGS: liquid jet, liquid drop, transverse flow, fuel injection, jet breakup

ABSTRACT: The breakup of a cylindrical ideal liquid jet (radius a, density p₁) by the transverse flow of another ideal fluid (density p₂, velocity U₀) was studied analytically. Two types of waves propagating along the jet surface were considered: 1) tengential waves deforming the jet in the plane of its cross section; 2) longitudinal waves. Time-dependent potential functions are introduced for the jet and the fluid in cylindrical coordinates, and the following solution is assumed

 $\Phi(r, \varphi, z) = \pi_2(r, \varphi) e^{-i\beta z}$.

Cord 1/3

L 22633-65 ACCESSION NR: AP50	002865		0
The continuity of the face is used as a because of the continuity	coundary condition	int of the velocity at . From Laplace's equ form	the inter- ation a gen-
	$u_1 = \sum_{m=0}^{\infty} A_m R^* e^{im\phi},$		
by	$v_{n} = \frac{1}{a} \sum_{n=0}^{\infty} n A_{n} I$	surface rise of the j	
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L 22633-65
ACCESSION NR: AP5002865

Numerical calculations show that at 2 < W < 27.6 (W = Veber number),
four nodal lines appear on the jet surface and two nodal lines at
0.656 < W < 1.24. To determine the wave propagation along the jet,
the stream function is assumed to have the form $\Phi(r, \phi, z, t) = u(r, \phi)e^{-i\beta t + i z}$

Substituting in the cylindrical Laplace equation, the solution is obtained in a Bessel function of imaginary arguments. Numerical results are obtained for W = 5 and 10. Orig. art. has: 4 figures and 46 formulas.

ASSOCIATION: none:

SUBMITTED: 22May64 - ENCL: 00 SUB CODE: ME

NO REF SOV: 007 OTHER: 004 ATD PRESS: 3170

Cord3/3

EMP(m)/EWP(k)/EWI(1)/EWI(m)/ETC(m)-6/T/EWA(d)/EWA(1)/EWP(w)/EWP(v)ACC NR: AP6009049 WH/JW/WE SOURCE CODE: UR/0207/66/000/001/0058/0066 AUTHOR: Borodin, V. A. (Moscow); Dityakin, Yu. F. (Moscow); Yagodkin, V. I. (Moscow) ORG: none TITLE: Stability and disintegration of a cylindrical liquid film in a gaseous medium SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 1, 1966, 58-66 TOPIC TAGS: swirl atomizer, fuel injection, fuel injector, combustion, propulsion ABSTRACT: To study the problem of liquid injection by swirl atomizers, an analysis was made of the break-up of a cylindrical liquid sheet issuing from a nouzle into a stagnant medium. Solutions were plotted in terms of the fluctuation increment vs. the wave number at various Weber numbers ranging from 2 to 15. Based on the results, the following conclusions were drawn: at small Weber numbers at the nozmie exit, waves, which are in the same phase, are generated on the outer and inner surface of the cylindrical sheet. Since the fluctuation amplitude increases rapidly, the annular liquid sheet is transformed into a continuous jet which disintegrates according to previously outlined mechanisms. At Weber numbers from 3-10, the fluctuations have the same wavelength as the thickness of the sheet so that the sheet expands considerably and thus can disintegrate. At We >10, the wavelengths of the fluctuations are much shorter than the film thickness and the fluctuations on the inner Card

and outer surfaces are either in the same or in a different phase. In this case, proplets detach from the cylindrical sheet without causing disintegration. Orig. art. has: 9 figures and 50 formulas. [PV] UB CODE: 21/ SUBM DATE: 280ct65/ ORIG REF: 002/ OTH REF: 002/ A'D PRESS: 4/2/7			P6009												0
CUB CODE: 21/ SUBM DATE: 280ct65/ ORIC REF: 002/ OTH REF: 002/ A'D PRESS: 4217	dre	oplets	detaci	h from t	the cy	lindrical.	sheet	or in withou	a diff ut cau	erent sing	: phas disin	e. In tegrat	this ion.	Orig.	
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MORGUL', Ye.; YANGOLENKO, A.; DITYASHEVA, T.

Use of phosphates in sausage manufacture. Mias. ind. SSSR 30.
no.3:44-45 '59. (MIRA 12:9)

1.Stalinskiy myasekembinat.
(Sausages)

DITYATKIN, G.

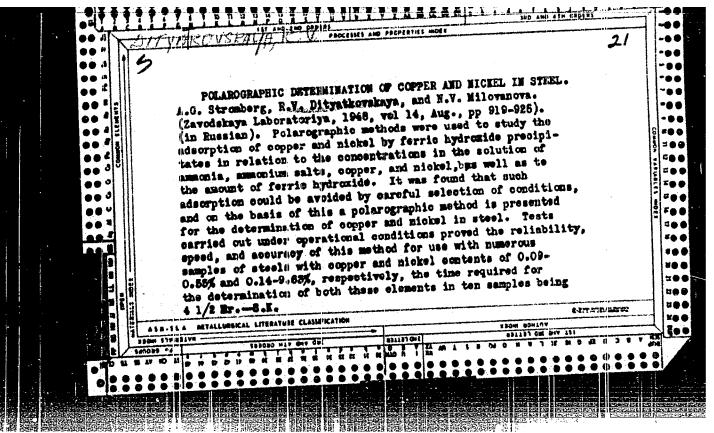
Results of organizing a fire guard brigade. Posh.delo 3 no.5:8 My 157. (MLRA 10:7)

1. Starshiy Ryliskiy rayonnyy pozharnyy inspektor.
(Eursk Province-Fire prevention)

IL'YASHENKO, B.N.; TIKHONENKO, A.S.; DITYATKIN, S.Ya.; RUDCHENKO, O.N.

Eiological properties of small enteric phages containing DNA. Mikrobiologica 34 no.5:814-819 S-0 165. (MIRA 18:10)

l. Institut epidemiologii i mikrob ologii imeni N.F. Gamale AMN SSSR i Institut radiatsionnoy i fiziko-khimicheskoy biologii AM SSSR.



DI TYATKOVSKAYA, R. V.

USSR/Metals - Foundry, Equipment

Sep 51

"Corrosion Resistant Coating of Chaplets," A. V. Bobrov, R. V. Dityatkovskaya, Engineers, Ural Mach Bldg Plant

"Litey Proiz" No 9, p 24

Conducted expts to establish most efficient and exconomical method for protection of chaple ts against corrosion. Investigated following methods: treatment with solutions of phosphoric acid, caustic soda, sodium nitrite or copper sulfate, and tinning and mickel plating. Latter proved best method. Equally efficient is treatment with soln of phosphoric acid. This method is only 1/12 as expensive as tinning.

PA 197T90

DITYATKOVIKIY, M.M.

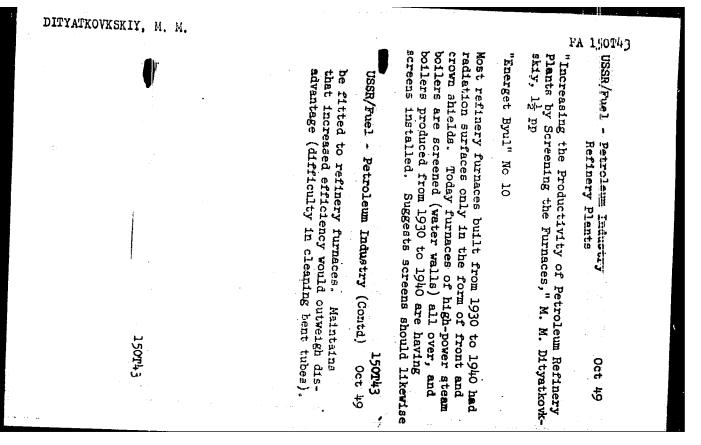
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I wamyen ye chucunnykh ryebristykh vozdukho - podogryevatyelyey si stys my "Kabilits" trubchaty mi. Enyergyet. Byullyetye nb, 1949, No 8, S. 23-24.

So: Letopis No. 3/4

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410430003-6



DITYATKOUSKIY, M.M.

Subject

: USSR/Electricity

AID P - 1156

Card 1/1

Pub. 29 - 9/31

Author

: Dityatkovskiy, M. M., Eng.

Title.

: Return feedwater heating

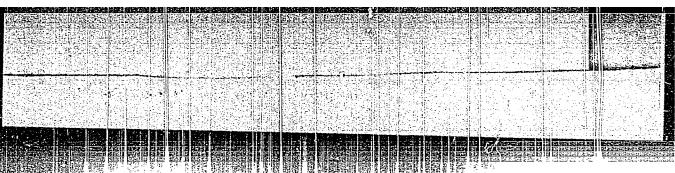
Periodical: Energetik, 11, 18-19, N 1954

Abstract

: The author briefly describes an arrangement for mixing and better heating of the return feedwater, consisting of diffusers placed on top the boiler of 100 sq. meters of total heating surface. One drawing.

Institution: None

Submitted : No date



DITYATKOVSKIY, Ya. M., and SAUKOV, M. K.

"Centrifugal Casting of Large (ylindrical Parts From High-Alloy Steel," p. 61. in book Mechanization and Automatic Control of Founding Processes, Leningrad, 1957, 224pp.

SOV/137-59-1-1651

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 219 (USSR)

Bezruchko, I. I., Dityatkovskiy, Ya. M., Ayzikovich, M.S. AUTHORS:

TITLE: Advanced Stamping Technology Employs Induction Heating

(Peredovaya tekhnologiya shtampovki s primeneniyem induktsionnogo

nagreva)

PERIODICAL: V sb.: Novoye v kuznechno-shtampovochn. tsekhakh Leningrada. Leningrad, 1958, pp 78-88

ABSTRACT: The employment of the method of induction heating of blanks in the forging shop made it possible to change over to a more rational technology involving simultaneous stamping of two forgings of the locking crown of a drum in a 1000-ton press with an insert die having two finishing impressions. The high economic efficiency of combining operations of stamping in a press with induction heating of blanks is pointed out. A computation of the economic indices of the new technology is presented and the layout of the working area is described; two induction-heating devices employed in the heating of blanks and hardening of the forging of the locking crown of a drum are also

Card 1/1 described.

SOV/137-59-1-1668

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 221 (USSR)

AUTHORS: Dityatkovskiy, Ya. M., Kuleshov, M. Ya.,, Shcherbinin, K. P.

TITLE: Precision Die Stamping of Compressor Impeller Blades (Tochnaya shtampovka rabochikh lopatok kompressoraj

PERIODICAL: V sb.: Novoye v kuznechno-shtampovochn. tsekhakh Leningrada. Leningrad, 1958, pp 89-107

ABSTRACT: The authors describe the technology of precision stamping of forgings (F) for compressor impeller blades made of steel Kh17N2; no machining allowances are made for the blade; the tolerance of the profile of the blade amounts to $\frac{+0.08}{-0.12}$ mm per side, and the deformation to ± 0.2 mm; the employment of this method results in a reduction of the over-all amount of labor required for the manufacture of the blades and increases the coefficient of utilization of the metal. Stamping is carried out in mechanical 1500-ton presses, the blanks for the blades being upset in a friction-driven press. The F's are calibrated three times. Results of mechanical testing of F's are presented together with general recommendations and data on the manufacture and heat Card 1/1 treatment of the dies.

18-7100

1416

\$/180/60/000/005/010/033 E111/E135

AUTHORS:

Dityatkovskiy, Ya.M., Mayevskiy, I.L., Stroyev, S.S.

and Shcherbakov, P.M. (Leningrad)

TITLE:

Induction Heat Treatment of Heat Resisting Nickel

Alloys

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, No.5, pp. 110-121

TEXT: In a previous research (Ref.1) the authors (without Mayevskiy) showed that alloys of the XH 807 (KhN80T) and nimonic types can have their high-temperature holding time greatly reduced without deterioration of mechanical properties. For that work they used a 2500 cps rotary generator. They now extend this approach to ν a larger range of nickel alloys, studying the heating of parts of complex shapes and examining a wide range of problems connected with the heat-treatment theory of deformed alloys. As current sources rotary generators of 2500 and 8000 cps and a tube oscillator of 500 kc/sec were used. Alloys studied were types 30-617 (EI-617) and 30-4375 (EI-437B) with the following respective percentage composition: 0.11-0.12, 0.03-0.06 C; 0.36-0.50, Card 1/3

S/180/60/000/005/010/033 E111/E135

Induction Heat Treatment of Heat Resisting Nickel Alloys 0.26-0.35 Mn; 0.31-0.60, 0.42-0.65 Si; 13-16, 19-22 Cr; 1.8-2.3, 2.3-2.7 Ti; 1.7-2.3, 0.55-0.95 Al; 2-4, 0, Mo; 5-7, 0, W; 0.1-0.5, 0, V; remainders Ni. The short-time and longtime mechanical properties of the original alloys are shown in Tables 2 and 3 respectively. Different variants of induction heat treatment and inductor design were tried, the properties obtained with each being studied. Microstructures of the EI-437B alloy are tshown in Fig.1 and hardness of EI-617 as functions of hardening temperatures in Fig.2. Tables 4 and 5 give results of long-time hardness tests for specimens of EI-437B treated under various conditions; those for specimens prepared from special wedge-shaped blanks being given in Table 6. Electron micrographs for this alloy after various treatments are given in Fig.3, and the degree of dispersion of the hardening α^{τ} -phase as a function of induction heating temperature in Fig.4. Fig.5 shows the influence of the heating rate on recrystallization of EI-437B and Fig. 6 the microstructures obtained with 63% deformation and 1150 °C induction heating without holding. The work showed that both the alloys can be hardened even in relatively complex shapes, by h.f. heating Card 2/3

S/180/60/000/005/010/033 E111/E135

Induction Heat Treatment of Heat Resisting Nickel Alloys

followed by air cooling. Both rotary generators and tube oscillators can be used for supplying the h.f. current. Heating times are reduced from hours to minutes and better short-time strength and plasticity are often obtained. Long-time strength of EI-437B is 70-95% of that obtained by standard heat treatment and is well above specification; that of EI-617 is almost equal to or sometimes better than that obtainable by standard treatment to or sometimes better than that obtainable by standard treatment. Shown to depend on heat treatment conditions. There are 6 figures, 6 tables and 11 references: 10 Soviet and 1 English.

SUBMITTED: July 6, 1960

Card 3/3

DITYATKOVSKII, Yakov Mironovich; FIRGER, Iosif Vladimirovich; SLITSKAYA, I.M., insh., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Cleaning parts with metal grit] Ochistka detalei metallicheskim peskom.
Leningrad, 1961. 13 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Sariia: Liteinoe proizvodstvo, no.5)

(Metals-Finishing)

(MIRA 14:7)

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\$/123/61/000/012/018/042 A004/A101

AUTHORS:

Dityatkovskiy, Ya. M.; Mayevskiy, I. L.; Stroyev, S. S.;

Shcherbakov, P. M.

TITLE:

Induction heat treatment of heat-resistant nickel alloys

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 12, 1961, 82, abstract 12B588 ("Izv. AN SSSR, Otd. tekhn. n. Metallurgiya i toplivo", 1960,

no. 5, 110-121)

TEXT: Type XH80T (KhN80T) [34 4375](EI437B) alloys and those of type 3M 617 (EI617) refined with W, Mo, V and other elements can be hardened by short; hf-current heating and subsequent air-hardening. Machine generators (2,500 -8,000 cps) and tube generators (500,000 cps) are used as induction current sources. The short-term strength and ductility characteristics of alloys treated by induction heating are higher than those treated according to the standard multi-hour procedure. The endurance strength of type KhN8T (EI437B) alloys amounts to 70-95% of the endurance strength of alloys treated according to the standard method. The endurance strength of alloys refined with W, Mo, and V

Card 1/2

25733

S/123/61/000/012/018/04a A004/A101

Induction heat treatment of heat-resistant ...

ACO47 ATO1

(EI617 alloy) approaches that of alloys treated in the standard manner (88-97%). There are 6 figures and 11 references.

N. Il'ina

[Abstracter's note: Complete translation]

Card 2/2

DITYATKOVSKIY, Ya.M.

PHASE I BOOK EXPLOITATION

SOV/5648

Sokolov, Aleksey Nikolayevich, ed.

Mekhanizatsiya i peredovaya tekhnologiya liteynogo proizvodstva (Mechanization and Advanced Processing in Foundries) [Leningrad] Lenizdat, 1961. 236 p. 2,000 copies printed.

Ed.: Ye. V. Yemel'yanova; Tech. Ed.: I.M. Tikhonova.

PURPOSE: This collection of articles is intended for technical personnel, foremen, and skilled workmen of foundries. It may also be of use to staff members engaged in the mechanization of production operations.

COVERAGE: The collection contains articles discussing the experience of a number of Leningrad plants and engineering and design organizations in mechanizing foundry processes and in applying advanced techniques to the manufacture of castings. No personalities are mentioned. Some

Card 1/5

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Mechanization and Advanced (Cont.)	SOV/5648	
articles are accompanied by references. References a	are all Soviet.	:
TABLE OF CONTENTS:	÷	i :
Foreword	3	1
Sverdlov, V. I. Mechanization and Automation of Foundry Processes	5	
Zeleranskiy, Ya. V., M.S. Kashanskiy, and L.Z. Tsygank Pneumatic Transfer at Foundries	o.	
Zelichenko, G.S. Automatic Line for Molding and Shakeou	t 52	÷
Zelichenko, G.S. Mechanization of the Cast-Iron Foundry at the "Elektrik" Plant	63	
Card 2/5		
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	1.1	
Mechanization and Advanced (Cont.)	5648	
Sokolov, A. N. Mechanization of the Charging Operation in Electric-Furnace Steel Manufacture	77	
Zeleranskiy, Ya. V. From Mechanization Practices in	99	; ;
Foundries Matyeyev, V.N. Mechanization of Metal-Mold Casting	108	
Dityatkovskiy, Ya.M. P.R. Kuratov, and V.N. Matveyev. Mechanized Drying of Cores by High-Frequency Currents	118	
Dlugach, M. A. Making Small Steel Castings in Shell Molds	133	
Kashanskiy, M.S., M.A. Kremer, and S.Ye. Tysov-skaya. Rational Methods of [Flame] Trimming and Cleaning Steel Castings	152	
Card 3/5		
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		4.
Mechanization and Advanced (Cont.)	SOV/5648	
Mednikov, Z. G. Application of the Group-Processing Method in Making Blanks by the Die Casting and Die Forging of Molten Metal		
, , , , , , , , , , , , , , , , , , ,	160	•
Desnitskiy, V. P. (deceased). Heat-Resistant Steel Castings in Power-Plant Constructions	172	(
77		:
Kremer, M. A. Determination of Sizes and Economic Efficiency of Exothermic Risers for Steel Castings	188	
Elitsufin S A Cost Peter District Co.		;
El'tsufin, S. A. Cast Rotor Blades for Gas-Turbine Compressors	203	:
Tkachev, K. I. Experience in Developing and Using the Slot-Type Gating System	212	
Cond Ale	219	

Card 4/5

AVAILABLE: Library of Congress (TS233. S55)			14 mm - 14 mm - 14	
Kononov, M. N. Patterns With an Epoxy-Resin Base 229 AVAILABLE: Library of Congress (TS233. S55) Card 5/5 VK/wrc/bc 11-15-61			14	
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PUL'TSIN, Nikolay Mikhaylovich; DITYATKOVSKIY, Ya.M., inzh., retsenzent; VARKOVETSKAYA, A.I., red. izd-va; SHCHETININA, L.V., tekhn. red.

faltanium alloys and their use in the machinery industry] Titanovye splavy i ikh primenenie v mashinostroenii. Moskva, Mashgiz, 1962. 166 p. (MIRA 15:4)

(Titanium alloys) (Metalwork)

S/126/63/015/003/015/025 E193/E383

AUTHORS: Dityatkovskiy, Ya.M., Androyev, I.V. and

Gorshkov, V.F.

TITLE: The effect of low melting-point metal coatings on the

mechanical properties of constructional and stainless

steels

PERIODICAL: Fizika metallov i metallovedeniye, v. 15, no. 3,

1963, 435 - 438

TEXT: The effect of Cd, Sn and Zn coatings on the mechanical properties of the following steels was studied: armco iron; steel 20, steel 45, 40×HMA (40KhNNA); 30×CA (30KhGSA); 1×18H9T (1Kh18N9T) and 34878 (E1878). The coatings, 15 µ thick, were deposited electrolytically. Their effect on strength and ductility of the steels at 20 to 900°C was determined by tersile tests carried out at a strain rate of 16%/min. Typical results are reproduced graphically in Fig. 1. The UTS (s, kg/mm), reduction in area (4) and elongation (5,%) of armco iron are plotted against the test temperature (°C), curves 1 and 2 relating, respectively; to uncoated specimens and specimens coated Card 1/5

The effect of

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with Cd. In Fig. 2 4 and 6 of steel 45 are plotted against the test emperature for specimens with and without Sm coatings (curves 2 and 1, respectively). The temperature-dependence of Y of steel 40KhNMA is reproduced in Fig. 3 for uncoated (curve 1) and Zn-coated (curve 2) specimens. Finally, in Fig. 4 the yield point (or, kg/mm) and ψ of steels E1878 and 1Kh18M9T are plotted against the test temperature for uncoated (curve 1) and Zn-coated (curve 2) specimens. It will be seen that the harmful effect of the Cd, an and Sh coatings is confined to the temperature interval between the melting point of each of these motals and a certain critical temperature tk, depending on the type of steel and its heat-treatment. The existence of tk is explained in the following manner. Two parallel processes take place during deformation: 1) increase of the stresses associated with the formation of various defects acting as stress-concentrators; 2) stress relaxation, the importance of which increases with temperature. Failure of coated test pieces below t, takes place by brittle fracture because the stresses associated with stressrisers reach a critical value determined by the magnitude of the

The effect of

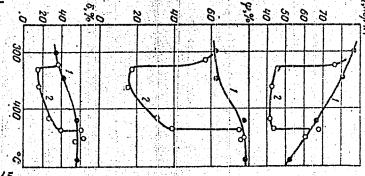
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surface tension at the steel/coating interface. At temperatures higher than the this critical level of stress is not reached owing to stress relaxation and the specimen fails in a ductile manner. There are 4 figures and 1 table.

SUBMITTED:

July 12, 1962

Fig. 1:



Card 3/5

ACCESSION NR: AP4029538

8/0149/64/000/002/0152/0154

AUTHOR: Pul'tsin, N. H.; Dityatkovskiy, Ya. M.; Pokrovskaya, V. B.; Vinogradov, V. A.

TITLE: On the character of the surface layer structure of VTS-1 titenium alloy during high-temperature heating

SOURCE: IVUZ. Tevetneya metallurigya, no. 2, 1964, 152-154

TOPIC TAGS: VT5-1 titanium alloy, surface layer, titanium structure, high temperature heating, hardness, titanium, nitrogen, oxygen, solid solution

ABSTRACT: As is well known, titanium alloys undergo substantial changes in the structure and hardness of the surface layer under heating. These changes are caused by the effect of oxygen from the air diffused in the metal at a high temperature. Nitrogen has some effect, although it has less capacity to diffuse in the titanium. As has been previously shown (N. M. Pul'tsin. Izv. VUZ, Tsvetnaya metallurghya, no. 5, p. 137 (1962)), substantial changes in the structure of the surface layer of alloys during their saturation with oxygen does not occur; only an increase in hardness is observed due to the effect of oxygen in these alloys. The authors present some results of investigating the structure of the changed layer of memorphisme titanium alloy VT5-1 during high-temperature heating. It is established that as a Cord 1/2

ACCESSION NR: AP4029538

result of oxygen saturation from the air at a high temperature, the surface laver undergoes a visible microscopic structural change of the ancill solution. An illustration containing 9 microphotographs is presented to show the various changes of the surface under various conditions. The change in the structure of the surface layer without a change of the phase composition of the alloy is established. The structure of the changed surface layer and the transitional zone is distinguished in appearance from the structure of the core, although in all three regions it consists of one phase, i.e., the solid a solution. A solid solution of the surface zone has an equivarial construction of the grains; however, the cores have a basket or fine-grained, nonequiaxial construction. This distinction in the surface is explained by the fact that the surface layer, strongly saturated with oxygen, does not undergo phase conversion in cooling after annealing, which cannot be said of the core and omly partially of the transitional layer. Orig. art. has: 4 figures.

ASSOCIATION: Voyennaya inchemennaya akademiya (Military Engineering Academy)

SUBMITTED: 03Jun63

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Card 2/2

ACCESSION NR: AP4037068

8/0129/64/000/005/0052/0054

AUTHOR: Andreyev, I. V.; Gorshkov, V. F.; Dityatkovskiy, Ya. M.

TITIE: The effect of a hot-metal medium on the mechanical properties of steal

Caracter 1

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1964, 52-54

TOPIC TAGS: not metal, none austemitic steel, deformation, Cd, Zn, Fb, Sn, intermetallic compound, brittle failure, stress relaxation, supercritical temperature, diffusion, hot dipping.

ABSTRACT: The authors investigated the effects of low-melting metal on the mechanical properties of non-austenitic steels at different temperatures and rates of deformation. The specimens were standard threaded and had a 5 mm diameter. A 15 mu thick cadmium and zinc layer was deposited by sherardizing, lead and tin by hot dipping. At supercritical test temperatures the properties of plated and unplated steel were found to be almost identical. The critical temperature depends on the steel, the coating and the rate of deformation. As the latter increases, the temperature range of the brittle failure is extended while the relative value of the decrease of plastic properties is somewhat lowered. At a low deformation

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rate, the coating has an adverse effect on the steel giving rise to crack formation. Sherardizing conspicuously reduced plastic properties of "45", "40KhNMA" and "30KhGSA" steel within a narrow temperature range. As a result of the formation of intermetallic Fe-Zn compounds, the transformation of the brittle state into the plastic state is irreversible in zinc-plated specimens and reversible in Sn-, Pb-and Cd-plated steels. Stressrupture tests with Cd- and Zn-plated "30KhGSA" steel showed that during the application of low stresses, the time before failure coincides in Cd-plated and unplated specimens. At increased stress application, the time before failure decreases appreciably and deformation is greatly accelerated directly before rupture. Zinc-plating has a greater effect at lowered stress application and prolonged testing periods. A hot metal medium was found to lower the surface energy, inhibit formation of new surfaces and favor crack formation. Elevated temperatures or decreased deformation rates enhance the effects of stress relaxation. In applying supercritical temperatures for a predetermined deformation rate, stresses are inhibited and prevent brittle failure. The authors assume that diffusion processes are significant in the process of stress relaxation. Original art. has: 4 figures and 1 table.

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ASSOCIATION: None

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AUTHOR: Dityatkovskiy, Ta. N., Julitain, N. M., Pokrovskaya, V. B., Vinogradov, V. A.g.//

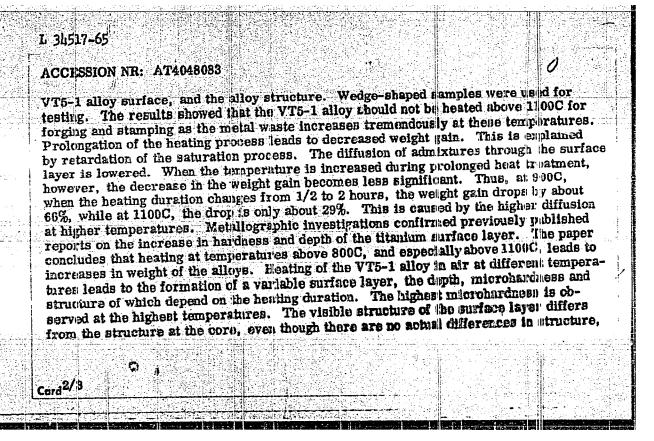
TITLE: Some investigations of the properties and structure of alloy VT5-1 during hot stamping

SOURCE: Soveshchaniye po metal birgii metallovedeniyu i primeneniyu titana i yego

solution of tital a yego splavov. 5th, Moscow, 1963. Metallovedeniye titana (Metallography of tital am; trudy* soveshchaniya. Moscow, Izd-vo Malka, 1964, 263-267

TOFIC TACS: titanium alloy, titanium alloy heating, titanium alloy structure, hot pressing, titanium oxidation, titanium alloy hardness/alloy VT5-1

ABSTRACT: Hot working of titarium alloys is hampered by their chemical activity at high temperatures. Titanium reacts with the oxygen of the air and the other air components are dissolved in the metal, forming scale and increasing the hardness and trittleness at the surface. The defects must be eliminated by turning on lathes. The problem of loss of metal during stamping requires special investigations to determine the optimal heating temperature which will insure the needed plasticity and minimum was te. The waste may be measured by the increase in billet weight during heating. The present paper investigated the added weight, The depth and properties of the changed layer of the



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non-equiaxial structure. This layer, which prevents phase tr though it is thin, causes crack	epilaxial structure, while the core has a fine-grain elifference is caused by oxygen saturation of the surface ransformations. The formation of the surface layer, even as to form in the material while working, and possibly has: 2 figures and 2 tables. "Ye. A. Bodrova tool: part atlons."
ASSOCIATION: none	
SUBMITTED: 15Jul84	ENCI: 00 SUB CODE: MM
NO REIF SOV: 002	OTHER; 000

DITYATKOVSKIY, Yefim Moiseyevich; KUTSENOVA, A.A., red, ind-ve; TEMKINA, Ye.L., tekhn.red.

[Analysis of the fulfillment of the plan concerning construction costs] Analiz vypolneniia plana po sebestoimosti stroitel nykh rabot. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 71 p. (MIRA 13:9) (Construction industry--Costs)

DITYATKOVSKIY, Yefim Moissyavich; SMEKHUNOV, V.G., nauchnyy red.;
BOGINA, S.L., red.izd-va; NAUMOVA, G.D., tekhn. red.

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(Construction industry—Accounting)
(Architecture—Designs and plans)

DITYATKOVSKIY, Yefim Moiseyevich; LUNDEN, Ye.P., red.

[Analysis of the cost of construction and assembly work in construction organizations] Analiz sebestoimosti stroitel'no-montazhnykh rabot v stroitel'nykh organizatsiakh. Izd.2. dop. i perer. Moskva, Stroiizdat, 1965. 103 p. (MIRA 13:4)

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Practice in preparing and carrying out of the payment and receiving plan. Den.i kred. 18 no.6:48-50 Je '60.
(KIRA 13:6)

1. Upravlyayushchiy Idzhevanskim otdeleniyem Gosbanka ArmSSR (for Markaryan). 2. Benderskoye otdeleniye Gosbanka Moldavskoy SSR (for Dityuk).

(Idshevan-Banks and banking)
(Bendery-Banks and banking)

DITYUK, A.

Payment and receiving plan under the new conditions. Den. i kred. 21 no.11:29 N '63. (MIRA 17:2)

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VIDA, Miklos; KORANYI, Gyorgy, dr.; SZILAGYI, Antal; DESTEK, Endre; FERENCZ, Mihaly; LITZ, Erno; DICSZEGHY, Daniel, dr.; SCHUNK, Rudolf; SIKLOSI, Jozsef; RETEZAR, Arpad

Research, planning, and education in the gas industry. Energia es atom 13 no.3:112-116 Mr 160.

EWP(t)/FTI LJP(c) WW/JW/JD SOURCE CODE: CZ/0008/65/000/008/0972/0978 L 31757-66 TAP6021638 ACC NR 27 AUTHOR: Harecok, Josef; Ditz, Jiri 0 ORG: Research Institute for Inorganic Chemistry, Usti n. L. (Vyzkumny ustav anorganicke chemie) TITIE: Preparation of high purity hydrochloric, hydrofluoric, and mitric acids SOURCE: Chomicko listy, no. 8, 1965, 972-978 TOPIC TAGS: distillation, chemical purity, hydrochloric acid, hydrofluoric acid, nitric acid Methods proposed by the authors are described, and the ABSTRACT: analytical control of the product acids is discussed. For HCl the authors propose three methods: azeotropic distillation, giving concentrations of the product up to 7N; isothermal distillation; and the preparation of the acid by absorbing anhydrous HCl in pure water. For HF a method of isothermal distillation using polyethylene equipment is suggested. For nitric acid, redistillation from pure quartz equipment is proposed; concentrations up to nitrio acid, redistilla. 14 N may be obtained. The amount of impurities was lowered by 1 to 2 magnitude orders. The authors thank Z. Rezac and Dr. J. Dvorak for valuable advice and comments. Orig. art. has: 7 figures and 1 table. [JFRS] SUB CODE: 07 / SUEM DATE: 18Jul64 / ORIG REF: 003 / SOV REF: 008
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EMP(t)/ETI L 31476-66 IJP(c) JD/JH SOURCE CODE: CZ/0008/65/000/011/1357/1361 ACC NR: AP6023168 AUTHOR: Ditz, Jiri; Marecek, Josef; Dvorak, Josef; Rezac, Zdenek 36 ORG: Research Institute for Organic Chemistry, Usti (Vyzkumny ustav anorganicke chemi.e) TITLE: Determination of calcium and magnesium in high purity acids SOURCE: Chemicke listy, no. 11, 1965, 1357-1361 TOPIC TAGS: chelate compound, quantitative analysis, calcium compound, magnesium compound ABSTRACT: The method proposed by the authors is based on a chelatometric microdetermination of Ca in hydrochloric and nitric acids and on a semimicrodetermination of Ca and Mg in hydrofluoric acid. Ca in HCl and in HNO3 may be determined in concentration on the order of 10⁻⁵ with a relative inaccuracy of 4.25%; Ca and Mg in HF in concentrations of 10⁻³ and with an inaccuracy of 3.65% for Ca, and 2.26% for Ca. The described methods are more accurate and reliable than those used up to now. Orig. art. has: 2 tables. [JPRS] SUB CODE: 07 / SUBM DATE: 270ct64 / ORIG REF: 003 / SOV REF: 001 OTH REF: 003 Card 1/1 mc

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Ratsionalizatsiia 13 no.1:18-22 163.

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Uncl.

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Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959 Uncl.

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SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

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BULGARIA / Chemical Technology. Chemical Products. H
Fermentation Industry.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68956.

Author : Dyul'gerov G.
Inst : Not given.

Title : Investigation of the Dimyat Vine Grown in the

Freslava Payon for the Production Cognac Alcohol.

Orig Pub: Lozarstro i vinarstvo, 1958, 7, No 1, 28-33.

Abstract: No abstract.

Card 1/1

90

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	Category	: Chemical Technology.
	Abs. Jour	: Ref Zhur-Khimiya No 14, 1959 No 51415
-	Author	
	Institute	
	Title	;
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	abstract	nerticularly of the second outlet, of the CP. was considerably rougher with a sharp bitter was considerably rougher were of aging in
	Con'd	taste, However, after the special sequenced. harrels, quality of all the alcohols equalized. It is concluded that the use of musts derived it is concluded that the use of the CP are
		from the first and second during materials suitable in the preparation of raw materials for cognac manufacture I. Skurikhin
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(INEUMOTHORAX, ARTIFICIAL

kymography of lungs in)

(LUNGS, radiography,

kymography in artif. pneumothorax)

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roentgenokymography of heart)
(HEART, radiography
roentgenokymography)

DZHENDOV, L.; DIULGEROV, IV.; ZLATEV, N.; POPOV, A.

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(PNEUMOTHORAX, ARTIFICIAL, complications,

pleurisy, suppurative. (Bul)) (PLEURISY, etiology and pathogenesis, pneumotherax, artif. (Bul))

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segmental aspects of infiltrations (Bul))

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(TETRA LOGY OF FALLOT, compl.

arcus aortae dexter, case report (Bul))

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2. Upravlyzyushchiy Yaroslavskoy oblastnoy kontoroy "Sortsemovoshch" (for Diunov). 3. Leningradskaya stantsiya zashchity zelenykh nasazhdeniy (for Myakemyaynen).

DYURKO ISHTVAN [DIURCO ISTVAN]

Range and factors determining the distribution of Chondrostom. Vop. ikht. 1 no.3:399-402 '61. (MIRA 14:11)

l. Universitet imeni Bahesh e Boyyai, Kluzh, Rumynskaya Narodnaya Respublika.
(Carp)

YUGOSLAVIA/Cultivated Plants - Fruits. Berries.

14-6

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30029

Author : Diurdjevic, Branislav, Misic, Petar

Inst : The Institute for Fruit Raising in Chachek

Title : A Study of the Possible Simultaneous Double Pear Graft

on the East Malling Type A Quince in the Hot-House of

Yugoslavia.

Orig Pub : Arhiv pojopr. nauke, 1956, 9, No 26, 113-122, (Serbo-

Croatian; res. Eng.).

Abstract : Investigations made at the Institute for Fruit Raising in

the city of Chachek in 1954-1955 have shown that the inoculation of the pear on the quince had only 31% viability. Grafting by means of a graft had 70.7% taking, and with an internediary stock only 20%, although the sapling output

from the hothouse was then speeded up by 1 year.

Card 1/1

DIVAC, O.

The new fair of Belgrade. p. 1249.

(TEHNIKA. Vol. 12, No. 8, 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 0, No. 10, October 1957. Uncl.

DIVAK, E.

Losses are reduced, p. 2. (Technicke Noviny, Praha, Vol 2, No. 20, Oct 1954)

SO: Monthly list of East European Accessions (EEAL), IC Vol. 4, No. 6, June 1955, Uncl

Divak, E.

Problems of the maintenance of electric equipment in metallurgic ps.lnts. p. 282. HUTNIK. (Ministerstvo hutniho prumyslu a rudnych dolu) Praha. Vol. 4, no. 9, Sept. 1954.

Source: EEAL IC Vol. 5, No. 10 Oct. 1956

DIVAK, E.

Compensation of the power factor of electric motors in metallurgic plants. p. 62. ENERGETIKA. (Ministerstvo paliv a energetiky. Hlavní sprava elektraren) Praha. Vol. 5, no. 2, Feb. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

DIVAK, Evzen, inz.

Cooperation between producer and user of electric motors is a guarantee of success. El tech obsor 52 no.3:142 Mr '62.

1. Vitkovicke zelezarny Klementa Gottwalda, Ostrava.

DIVAK, Evzen, inz.

Electrical engineering, a condition of technical development of mining, mechanical and power operations of the Vitkovicke zelezarny Klementa Gottwalda. Elektrotechnik 18 no.8: 2 of cover Ag 163.

L 35490-55 ENT(1)/ENT(m)/ENP(w)/ENA(d)/T/ENP(t)/ENP(b)/ENA(h) P2-5/Peb ACCESSION NR: AP5007839 1 P(b) JD/AT S/0288/64/000/003/0091/0095

AUTHOR: Kravchenko, A.F.; Kot. K.N.; Divak, M.I.

TITLE: Microbardness of gallium arsenide SOURCE: AN SSER. Sibirskoye oldeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 3, 1964, 91-85

TOPIC TAGS: gallium arsenide, gillium arsenide hardness, single crystal hardness microscope hardness, semiconductor hardness, semiconductor crystal structure

ABSTRACT: Only a few papers deal with the microstructure of GaAs (see e.g., G.A. Wollf, L. Toman, F.I. Field, J.C. Clavk, Semiconductors and Phosphers, New Jerney, 1958 for polycrystalline samples). The present paper reports on measurements of the microhardness of oriented monocrystals baving a free electron concentration of n 1017cm and a dislocation density in the [1113] plane between 2:104 and 5:105 cm 2. Samples were polished by etching (1 part HF, 3 parts HNO₃, and 2 parts H.). The microhardness in the [1111] plane is H = 650 kg/mm²; in [110] - 510 kg/fnra 2. Annealing at temperatures not higher than 400C increases the microhardness. which the depends on the orientation of the indenter with respect to the crystallographic direc is no Cord

and is determined by the distribution and mobility of dislocations. There is a proportionality between the microhardness and the heat of formation of AIIBV. The viscosity of the samples with in the {111} plane is equal to 3.4·10 ⁻³ g·cm. Orig. art. has: 2 formulas, 5 figures, and 1 table. ASSOCIATION: Institut fiziki tverdogo tela i poluprovodnikovoy elektroniki (Institute or Solid State Physics and Semiconductor Electronics)	
SUBMITTED: 10 Jane4 ENCL: 00 SUB CODE: SS, EC	
NO REF SOV: 004 OTHER: 003	
마이트 전통 전기 전 경험 등 보는 사람들이 되었다. 그런 경험 등 경험	وحدو