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NAGORSKIT, V.D.

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Elektrooborudovanie samoletov, elektroprivod. Moskva, Izd. Voenno-vozdushnoi inzhenernoi Akademii im. N.E. Zhukovskogo, 1948.

Title tr.: Aircraft electrical equipment. electric drive.

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USSR/Physics	- Transfer function for magnetic amplifier case	FD-1395
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Author	Nagorskiy, V D. (Mescow)	
Title	Transfer function of an asynchronous motor regulated by magne fiers as a circuit link of an automatized electrical drive	tic ampli-
Periodical	Avtom. 1 telem , 15, No 6, 501-509, Nov-Dec 1954	
Abstract	The author presents expressions for the transfer function of motor regulated by magnetic amplifiers in the circuit of the shows that the properties of a motor regulated by magnetic an determined by four coefficients of linearization, for the fir he gives two methods. Values of the coefficients of lineariz given here for a typical system in the entire region of possi- states. The structural circuit scheme of an asynchronous mot by magnetic amplifiers can in the linear approximation for sm from equilibrium be represented as an inertia link connected a link that can be, depending upon the state of the system, if tegrating or negative-static; the circuit contains flexible f references.	stator. He splifiers are ding of which ations are ble equilibrial for regulated sall deviations in series with nertial, in-

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"Questions of the connection between fast action and power of a motor."

paper read at the Session of the Acad. Aci USSR, on Scientific Problems of Automatic Production, 15-20 October 1956. Automatika i telemekhanika, No. 2, p. 182-192, 1957

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KULEBAKIN, Viktor Sergeyevich: NACORSKIY, Valentin Duitriyevich; POPOV, Yu.A., kand.tekhn.nauk, dotsent, retsenzent, DARTOHOV, A.N., prof., retsenzent; SENKEVICH, A.M., dotsent, kand.tekhn.nauk, red.; TUBYANSKAYA, F.G., izdat. red.; ROZHIN, V.P., tekhn.red.

[Slectric drives for airplane power units and mechanisms] Elektroprivod samoletnykh agregatov i mekhanismov. Moskva, Gos. izd-vo (MIRA 12:1) ohor. promyshl., 1958. 386 p.

1. Zaveduyushchiy kafedroy aviatsionnogo elektrooborudovaniya Moskovskogo aviatsionnogo instituta imeni Ordzhonikidze (for Popov). 2. Chlen-korrespondent AN SSSR. Zaveduyushchiy kafedroy elektrooborudovaniya samoletov i avtomobiley Moskovskogo energeticheskogo instituta (for Larionov). (Electric drive) (Airplanes--Electric equipment)

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PHASE I BOOK EXPLOITATION SOV/1706

Kulebakin, Viktor Sergeyevich, and Valentin Dmitriyevich Nagorskiy

- Elektroprivod samoletnykh agregatov i mekhanizmov (Electric Actuator of Aircraft Components and Mechanisms) Moscow, Oborongiz, 1958. 388 p. (Series: Elektrifikatsiya samoletov) 10,000 copies printed.
- Reviewers: Yu. A. Popov, Candidate of Technical Sciences, Docent, Head,
 Department of Aviation Electric Equipment, Moscow Aviation Institute,
 and A. N. Larionov, Corresponding Member, USSR Academy of Sciences,
 Professor, Head, Department of Aircraft and Automobile Electric Equipment,
 Moscow Power Institute; Ed.: A.M. Senkevich, Candidate of Technical Sciences,
 Docent; Chief Ed.: A.I. Sokolov, Engineer; Ed. of Publishing House:
 F.G. Tubyanskaya; Tech. Ed: V.P. Rozhin.
- PURPOSE: This book for practicing engineers and students of aircraft mechanisms is a systematic treatment of the principles of operation and the design features of electric actuators used in aircraft control functions.
- COVERAGE: The book contains basic theory on aircraft electric actuators and gives analysis of the working processes of individual components and systems of electric Card 1/11

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actuators of aircraft elements and mechanisms. Methods of automatic con means of these systems are described. Data are presented on the static dynamic characteristics and design features of the most widely used form electric actuators. There are 9 Soviet references. No personalities are	end s of
TABLE OF CONTENTS:	
Preface	3
FIRST PART. PRINCIPLES OF THE ELECTRIC ACTUATOR OF AIRCRAFT MECHAN	ISMS
Ch. 1. Basic Information	7
Ch. 1. Basic Information	7 7
Ch. 1. Basic Information 1.1. Principles of the actuator of aircraft mechanisms	7 7 10
Ch. 1. Basic Information 1.1. Principles of the actuator of aircraft mechanisms 1.2. Development of an aeronautical electric actuator	7 7
Ch. 1. Basic Information 1.1. Principles of the actuator of aircraft mechanisms	7 7 10 12
 Ch. 1. Basic Information 1.1. Principles of the actuator of aircraft mechanisms 1.2. Development of an aeronautical electric actuator 1.3. Classification of aircraft working components and actuating mechanisms 	7 7 10 12 25
 Ch. 1. Basic Information 1.1. Principles of the actuator of aircraft mechanisms 1.2. Development of an aeronautical electric actuator 1.3. Classification of aircraft working components and actuating mechanisms 1.4. Requirements for actuators of aircraft operating mechanisms 	7 7 10 12
 Ch. 1. Basic Information 1.1. Principles of the actuator of aircraft mechanisms 1.2. Development of an aeronautical electric actuator 1.3. Classification of aircraft working components and actuating mechanisms 	7 7 10 12 25
 Ch. 1. Basic Information 1.1. Principles of the actuator of aircraft mechanisms 1.2. Development of an aeronautical electric actuator 1.3. Classification of aircraft working components and actuating mechanisms 1.4. Requirements for actuators of aircraft operating mechanisms 1.5. Comparative analysis of various actuators of aircraft mechanisms 	7 7 10 12 25 26

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135930003-6"

155-HOPPErsteiner SOV/1706 Electric Actuators of Aircraft (Cont.) 2.2 Electric motors used for driving aircraft mechanisms and components 36 46 2.3. General information on transfer systems 48 52 2.4. Reducers 53 55 2.5. Mechanical transformers of motion 2.6. Protective devices against mechanical overloads 56 2.7. Electromagnetic clutches 57 2.8. Braking systems 2.9. Energy losses in transfer systems 2,10. Basic forms of apparatus and equipment controlled by electric 60 aircraft actuators Ch. III. Artificial and Operating Characteristics of Electric Motors. 63 Characteristics of Electromagnets 63 3.1. Basic characteristics of electric motors 3.2. Artificial and operating characteristics of parallel and 63 Independently excited electric motors 3.3. Artificial and operating characteristics of series-excited electric 70 77 3.4. Operating characteristics of multiply excited motors Card 3/1

	ctuators of Aircraft (Cont.) SOV/1706		
ctric A	se of a system of relative units for expressing the characteristics		
35 II	se of a system of relative units for expressing and the	79	
• •ر•ر م	f direct-current electric motors		
		82	
י יייי	ields of application of differently excited motors	85	
ים א די די ד	'ields of application of differently excited metor- rtificial and operating characteristics of asynchronous motors rtificial and operating units for an asynchronous motor	91	
7 9 9	system of relative units for an asynchronous motor System of relative units of a two-phase motor with increased		
70	whipinial characteristics of a star	93	
_	ative registance of the root	98	
		99	
3.10.	Hysteresis-type electric meters Static characteristics of electromagnets		
		105	
	Dynamic Principles of Electric Actuators	105	
• <u>1</u> V• 1	Dynamic Principles of Alectric actuators On the dynamics of aircraft electric actuator	107	
4.1.	On the dynamics of antical construction actuator Basic equation of motion of an electric actuator Basic equation of motion of an electric actuator		
4.2.	Basic equations characterizing transient processes in Basic equations characterizing transient processes in	110	
4.3.	d-c electric actuators		
	-1-atmic actuator with a perturne	111	
		1 14	
	Power consumption for no-load starting Power consumption for no-load starting	115	
4.5.	Power consumption for no-load starting Starting an electric actuator with a series-excited motor		
4.6.	Starting an electric actuator with a series-excitote with a series- Power consumption in starting an electric actuator with a series-	118	

Card 4/11

SOV/1706 Electric Actuators of Aircraft (Cont.) 119 4.8. Starting an electric actuator having an asynchronous motor 4.9. Graphical method of solving the equation of motion of en 121 123 electric actuator 4.10. Method of series calculations 126 4.11. Transient processes in an electromagnetic actuator Cn. V. Methods of Regulating the Rotational Speed of Electric Actuators 131 131 5.1. Basic characteristics of the actuator to be regulated Having D-C Motors 5.2. Regulation of the rotational speed of independently or parallel excited motors by varying the resistance of an armature circuit 133 5.3. Regulation of the rotational speed of independently excited motors 135 by varying the excitation current 5.4. Regulation of the rotational speed of series-excited motors by 139 varying the resistance in the armature circuit 5.5. Regulation of the rotational speed of series-excited motors by 141 sounting the excitation coil 5.6. Basic layouts and characteristics of generator methods of 144 regulating the rotational speed of d-c servo actuators Card 5/11

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135930003-6"

ctric Actuators of Aircraft (Cont.) SOV/1706	
5.7. Transient processes in a servo actuator with independently excited	152
5.7. Transient processes in a comparent stratery using dynamoelectric	-
 5.6. Layouts and characteristics of servo actuators using dynamoelectric 5.8. Layouts and characteristics of servo actuator with a longitudinally 	157
5.9. Transient processes in a serve door	160
and transversely excited generation that for regulating speed	163
5.11. Regulation of separately and	165
the armature circuit characteristics of separately excited	169
motor with puises applied of	172
5.13. Heat losses in impulse regulation	173
motors 5 15. Regulation of the rotational speed of d-c motors with the	174
 aid of ion instruments 5.16. Use of rectifiers and saturation chokes for regulation of d-c 	176
electric actuators . VI. Methods for Regulating the Rotational Speed of Electric Actuators	189
Having Asynchronous notor by	189
6.1. Regulation of the rotational speed of an angle variation of the active resistance in the rotor circuit	103

Card 6/11

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135930003-6"

1 4 1 1

ectric Actuators of Aircraft (Cont.) SOV/1706	
6.2 Regulation of the rotational speed of asynchronous motors with the	aid 190
of magnetic amplificational speed of asynchronous motors by	19 6
6.3. Regulation of the focusion of pairs of poles switching the number of pairs of poles	199
 6.9. Regulation the number of pairs of poles switching the number of pairs of poles 6.4. Impulse regulation of the rotational speed of asynchronous motors 6.5. Losses in impulse control of asynchronous motors 	204
6.5. Losses in impulse contract of	205
1. VII. Tracking Electric Actuators. Synchronous Shaft Systems	205
7.1. General information 7.2. Tracking actuator with d-c motor controlled by electronic	206
7.2. TRECKING accurate and a second of the second s	210
amplifiers 7.3. Tracking actuator with d-c motor controlled by an amplidyne 7.3. Tracking actuators with asynchronous motors	213
 7.3. Tracking actuator with asynchronous motors 7.4. Tracking actuators with asynchronous motors having electric 7.5. Synchronous shaft system with asynchronous motors having electric 	215
7.5. Synchronous shall system along and	219
connection through a most with auxiliary asynchronous machines	221
7.6. Synchronous shaft system with d-c motors 7.7 Synchronous shaft system with d-c motors	
	222
h. VIII. Control of Electric Actuators 8.1. Control functions of electric actuators	222
Card 7/11	

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135930003-6"

STATISTICS IN THE

Electric Actuators of Aircraft (Cont.) SOV/1706	
3.2. Conventional symbols for automatic electric actuator layouts	224
and rules for indicating them 8.3. Methods for controlling the processes of starting, braking, and	227
 a.y. Methods for electric actuators b.y. Simple control configurations of irreversible d-c electric b.y. Simple control configurations of irreversible d-c electric 	235
actuators	238
 8.5. Simple control configurations actuators 3.6. Simple control configurations of a-c electric actuators 	242
8.6. Simple control configuration	246
ch. IX. Heat Regime and Power of the Motor	246
9.1. Heating of motors for continuous for high-altitude conditions	248
Q.3. Heating processes of motors for any	253
short-duration loads 9.4. General considerations regarding the choice of type and capacity	255
of an electric motor	27 (
of an electric motor 9.5. Optimum transfer number of a transfer system 9.6. Methods for selecting type and power of an electric motor for no	on- 260
 9.6. Methods for selecting ofference adjustable mechanisms 9.7. Example of selection of type and capacity of an electric motor 	264
9.7. Example of selection of type and capacity	

Card 8/11

ectric Actuators of Aircraft (Cont.) SOV/1706	
SECOND PART. SYSTEMS OF ELECTRIFIED AIRCRAFT ACTUATOR MECHANISMS	·
SECOND PART. SYSTEMS OF ELECTRIFIED ALLONG TIME	c
	215
Ch. X. Electric Starters for Aircraft Engines	273
Ch. X. Electric Starters for Alteral t inglice aircraft engines 10.1. Starting conditions for gas turbine aircraft engines	274
10.1. Starting conditions for gas turbine aircraft engines 10.2. Electric starters for starting gas turbine aircraft engines	•
10 3 Comparison of Various consist Louis	276
for god turning enkines	286
	292
10.5. Control system for direct-action trainer sincraft engines	297
10.5. Control system for direct-action starters aircraft engines 10.6. Starter-generators for starting turbojet aircraft engines	
10.6. Starter-generators for starting turbojet afford o eigenvalue and a starting of piston aircraft 10.7. General considerations regarding the starting of piston aircraft	3 02
engines and circuit diagrams of	
engines 10.8. Construction, principle of operation, and circuit diagrams of 10.8. Construction, for aircraft engines	304
10.8. Construction, principle aircraft engines electric starters for aircraft engines	309
electric starters for antitude there flywheel 10.9. Process of acceleration of a starter flywheel	
	313
10.10. Process of decentrating the aircraft engine in motion and setting the aircraft engine the selection of the parameters of an	
10.11 Considerations regarding the selection of	320
electrically inert starter electrically inert starter	
electrically inert starter 10.12. Special features of the working processes of combined-action	321
starters	
Card 9/11	

Electric	Actuators of Aircraft (Cont.) SOV/1706	
	Electric Actuator for Aircraft Control Surfaces	324
	Electric actuator for rudders and ailerons	324
11.2.	Electric actuator for trim tabs	328
11.3.	Electric actuator system for Fowler flaps and split flaps	332
11.4.	Individual electric actuator for split flaps	337
11.5.	Electromagnetic actuator for interceptor aircraft	340
Ch. XII.	Electric Actuator for Landing Gears	3 42
	Mechanisms of retractable landing gears	342
12.2.	Classification and special features of electric actuators for retractable-landing gear mechanisms	
12.3.		351
12.4.	Electromechanical individual actuator for landing gear	352
	retraction mechanisms	353
12.5.		363
12.6.	Electric actuator for prelanding spin-up of the wheels	3 65
12.7.	Electromagnetic actuator for the wheel brakes	369
Ch. XIII	- Electric Actuator for Gun Turrets	371

Card 10/11

sov/1706 Electric Actuators of Aircraft (Cont.) 371 13.1. Special features of electric actuators for gun turrets 372 13.2. Electric actuator for turrets with direct control 13.3. Construction and principle of operation of electric actuators **3**75 for turrets with remote control 13.4. Structural layout of a tracker-type electric actuator with an 379 smpligyne for a turret 13.5. Dynamic characteristics of a tracker-type electric actuator for 380 a turret 384 References IS/gmp AVAILABLE: Library of Congress 6/29/59

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CIA-RDP86-00513R001135930003-6 "APPROVED FOR RELEASE: 03/13/2001 69638 s/024/60/000/02/006/031 Controlling d.c. Motors by High-Frequency Impulses VORUFOLLING U.C., RIUVUIS UY HIEH-FREQUENCY IMPULSES Dideleniye tekhnicheskikh UDICAL: Izvestiya Akademii nauk jS3R, 1960,Nr 2, pp 30-43 (UJSR) NRSTRACT. The Wee of transisters to control do meters mayre it The use of transistors to control d,C, motors makes lt which apply high frequency impulse control, which offers various advantages over ordinary methods of possible to apply nigh frequency impulse control, which offers various advantages over ordinary methods of impulse control. The simplest circuit is Hat of Fig impulse control. Simplest circuit by R.E. Morgan which is analogous to one described by R.E. 8.2000 AUTHOR: Impulse control, ine simplest circuit is that of fi which is analogous to one described by R.E. Morgan (Ref 2). It comprises a transistor in series with which is analogous to one described by R.E. Morgan the (Ref 2). It comprises a control notentiometer with a d.C. motor supply and a control notentiometer (**Met** 2). It comprises a transistor in series with a d.c. motor supply and a control potentioneter with a transistor in series with a d.c. frequency voltage. d.c. motor supply and a control potentiometer with a is source of high-frequency voltage. field, which is not shunted by a rectifier shown, may be independently supplied or derived from ABSTRACT: shunted by a rectifier. The motor field, which is no shown, may be independently supplied or derived ency permanent magnets. supply does not exceed one tenth of the e sctrical permanent magnets. The period of the high-frequency permanent magnets. The period of the high-frequency inputses not exceed one tenth of the e'sctrical time impulse control supply does not exceed one tenth of the e'sctrical time supply does not exceed one tenth of the eine winding, impulse supply does not exceed one tenth of the eine winding, impulse supply does not exceed one tenth of the eine winding, impulse supply does not exceed one tenth of voltage impulses anstant of the same as in of voltage main difference is, the duration of The main difference The main difference

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S/024/60/000/02/006/031 E194/E155

Controlling d.c. Motors by High-frequency Impulses

between the system described here and the usual ones lies in the selection of impulse frequency. With the above mentioned relationship between the impulse frequency and the time constant of the armature circuit, and with the use of a rectifier to shunt the armature, the current in the armature circuit does not have the characteristics of impulses but is practically constant. In Fig 2 curve 'a' shows the diagram of armature current, and curve 'b' a diagram of the current drawn from the supply source. The mean value of current drawn from the supply is less than the mean value of armature current. During the impulse, energy is stored in the inductance of the armature winding and discharges into the armature during the pause. The control frequency may be reduced if a choke is connected in series with the armature. The mechanical regulation characteristics of the drive are then considered, and Eq (6) is derived for the motor speed. This equation indicates that the characteristics are a series of parallel lines, as shown in Fig 3. Electrical losses in the circuit are then examined,

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s/024/60/000/02/006/031

Controlling d.c. Motors by High-Frequency Impulses neglecting the transistor current during current pauses and also neglecting the reverse current in the amplifier. Eq (10) emerges for the total electrical losses. Experimentally-determined mechanical characteristics are plotted in Fig 4 for two values of relative impulse time with an impulse frequency of 5000 c/s. The characteristics relate to a motor with a rated output of 35 W at a voltage of 27 V and a rated speed of 2300 r.p.m. It will be seen that the experimental results confirm the main theoretical conclusions. Fig 5 shows a similar circuit to that already considered but for a series motor. The controlling impulse circuit, which is not shown, may be the one already described. As before, expression (16) is derived for the speed. Mechanical regulation characteristics for a series motor are plotted in Fig 6. If it is necessary to reverse an independently-excited motor the circuit of Fig 7 may be used; Fig 8 gives its Card mechanical regulation characteristics. The circuits are not readily arranged for electrical braking, and

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135930003-6 69638 **s/**024/60/000/02/006/031 Controlling d.c. Motors by High-Frequency Impulses E194/E155 regenerative braking is impossible. disadvantages are avoided by using the circuit of These Fig 9, which employs the principle of cross-connection. A series of mechanical characteristics are plotted in Fig 10, and it will be seen that both motor and braking conditions are possible. Fig 11 gives a diagram of the armature current in this case. There are 11 figures and 2 references, of which 1 is Soviet and 1 is English. Card 414 SUBMITTED: November 30, 1959

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135930003-6"

PEROV, N.P.; SLLCHUX, G.A.; LA CLARE, V.D.

Technological system difference in the milled biturtinous peat. Trudy In t. (MIFA 14:2) (Practional () (Practional ()

23164 5/024/61/000/003/012/012 E140/E463

9.4310 Davidov, P.D. and Nagorskiy, V.D. (Moscow) AUTHORS : The overload capacity of germanium transistors TITLE: PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1961, No.3, pp.159-165

The article considers the efficiency of various types of TEXT: cooling for germanium triodes and their overload capacities when The thermal processes in the driven by identical short pulses. system are studied under the following assumptions: The collector junction and the transistor body constitute two homogeneous bodies with given heat capacities, coupled by a common surface and a given heat transmission factor; all points of the collector junction and the body of the transistor are at identical temperatures. Then the heat model of the transistor can be represented by a body with internal energy source where the power dissipated by the collector junction has two components, one which heats the collector junction and the second which is transferred to the body The latter, in turn, has two components, of the transistor. one of which heats the body of the transistor while the second is Card 1/3

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The overload capacity ...

dissipated in the surrounded medium. Assuming that the thermal time constant of the collector junction is much less than that of the body of the transistor, it is found that when the transistor is driven by pulses of duration of the order of the junction thermal time constant, the maximum power depends on the ambient temperature, the thermal resistance of the collector junction and the pulse duration. Under these conditions, it is further found that the transistor cannot be protected by any technical cooling method from such short-duration overload. The overload capacity for such short driving pulses is very high and breakdown of the transistor is practically impossible except under conditions of exceedingly high base current. The author concludes that transistors can be used directly for the control of dc electric motors since the armature current reaches its maximum value in several milliseconds and, therefore, breakdown of the transistor by the instantaneous value of the starting current is not very probable. The theoretical results have been verified experimentally and the circuits and results of this verification are described. There are 7 figures and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The two references to English language Card 2/3

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The overload capacity ...

S/024/61/000/003/012/012 E140/E463

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publications read as follows: Kennet E. Mortenson. Proced. I.R.E., April 1957, v.45, No.4; Strickland P.R. JBM Journal of research and development, January 1959, No.1.

SUBMITTED: January 24, 1960

Card 3/3

CIA-RDP86-00513R001135930003-6 "APPROVED FOR RELEASE: 03/13/2001

PETROV, B.N.; SOTSKOV, B.S.; LARIONOV, A.N.; CHILIKIN, M.G.; SYROMYATNIKOV, I.A.; BLAGONRAVOV, A.A.; FEUZHILIN, G.N.; IVAKHEENKO, A.G.; <u>NACORSKIY, V.D.;</u> CHELYUSTKIN, A.B.; DROZDOV, N.G., PETROV, I.I.

4011月9日日日日日日日日

Seventieth birthday of Viktor Sergeevich Kulebakin. Elektrichestvo no.10:90-91 0 '61. (Kulebakin, Viktor Sergeevich, 1891-)

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KULEBAKIN, Viktor Sergeyevich; <u>NAGORSKIY, Valentin Dmitriyevich;</u> VCSKRESENSKIY, Yuriy Yevgen'yevich; GESSEN, L.V., red. izd-va; ASTAF'YEVA, G.A., tekhn. red.

这种分词在这些新闻的资源

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[Semiconductors in automatic control] Poluprovodniki v avtomatike. Moskva, Izd-vo AN SSSR, 1963. 149 p. (MIRA 16:7) (Semiconductors) (Automatic control) (Transistors)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135930003-6"

VEDERNIKOV, I.N.; LYANDRES, I.L.; NAGORSKIY, V.K.; PASHKO, S.G.

Manufacture of sulfur in the form of scales. Khim.prom. (MIRA 15:12) no.10:773 0 162.

1. Volzhskiy sernyy kombinat. (Sulfur)

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NAGORYAUX 413, 14 EXCERPTA MEDICA Soc.14 Vol.12/4 Paddology April 50 756. THE INFLUENCE OF PREOPERATIVE RADIATION THERAPY UPON THE HEALING OF OPERATIVE WOUNDS (Russian text) - Nagoryanakaya V.P. - VESTN. RENTGENOL. RADIOL. 1957, 32/2 (15-21) Tables 4 The kind of local preoperative radiation therapy does not determine in any way the peculiarities of the postoperative healing of the wounds. The character of healing the wounds under the influence of X-ray therapy, radiotherapy or combined radiation therapy is almost the same. The total dose for each skin field, which did not exceed 1800 r. (in air) exerts no negative influence upon the healing of wounds. In the cases, when the dose exceeded 1800 r., healing by 2nd intention was often observed. The administration of pre-1. Iz otdeleniya luchevoy terapii (nach. A.N. Gehaleya) Glavnogo voyennogo gospitalys imeni akademika N.N. Burdenko

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operative radiation therapy for more than 30 days or the interval between the endiance operative radiation therapy for more than 30 days or the interval between the ending of the irradiation and the operative intervention being more than 60 days, unlowour day in-fluences the healing of wounds. A weak total radiation reaction, which charge ara at the time of the operative intervention, does not exert any special influence in this sense. The localization of the pathological focus, the irradiated region and the this sense. The localization of the pathological focus, the irradiated frequence in extent of the operative intervention, however, do have a definite effect. (XIV, 9^{+})

NAGORZANSKI, Jozef

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Certain problems of technological development in the metallurgic industry of Krakow Voivodeship. Przegl mech 21 no.9/10:258-260. 10-25 My 162.

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1611 - LIT WA DE

- AUTHOR: Nagovitsyn, D.F. and Rabinovich, D.M. 133-7-21/28
- TITLE: Research Work of the New Tagil Metallurgical Works. (Issledovatel'skiye raboty Novo-Tagil'skogo Metallurgicneskogo Zavoda)

PERIODICAL: Stal', 1957, NO.7, pp. 668 - 670 (USSR).

ABSTRACT: A. Operation of blast furnaces on fluxed sinter. The influence of increasing the basicity of sinter on its properties was investigated. The mechanical strength and the reducibility of sinter increase up to basicity 0.6; on further increase of basicity the above properties deteriorate. The coefficient of utilisation of the working volume of blast furnaces increased by 6.2%, coke rate decreased by 8.2%. In order to increase further the basicity of sinter, improvement in size distribution of materials sintered is required. B. The production of pig iron with oxygen-enriched thest.

Tests with oxygen-enriched blast (22, 23 and 24% 0,) were

carried out. Blast volume was decreased so as to obtain the same amount of top gas as with ordinary air. An increase in the output by 4.4, 6.7 and 7.7%, respectively, was obtained.
G. Smelting of ferro-manganese using oxygen-enriched blast.
Cardl/7

APPROVED FOR RELEASE: 03/13/2001

131-7-27/28

Research Work of the New Tagil Metallurgical Works.

D. A study of reducing processes and the distribution of ges flow in blast furnace stacks. The work was carried out on 4 levels of a furnace of 1386 m of working volume by vertical probing - lowering and retention of specimens of pinter and ores of a given size grading with simultaneous reduction in a laboratory apparatus. From the experimental results obtained (studies were started in 1952) the following conclusions were made: a) during operation with increased ore loads i.e. with low coke rates a more uniform distribution of materials and gases and widening of the zone of moderate temperatures is obtained; simultaneously, an increase in the CO_{\odot} concentration

in the upper third of the stack and slowing down of reduction processes in this part take place. This limits the possibility of improving the utilisation of gases with increasing height of the furnace. b) As with operation on low coke rates, the temperature in the middle levels of the furnace is determined by the thermal state of lower levels, it can be utilised as a sufficiently reliable indicator of the thermal state of the furnace in a scheme of automatic control of the furnace operation. c) Shift of the zone of active indirect reduction towards lower furnace levels indicates the necessity of a corresponding

Card2/7increase of the bosh diameter. There is no danger of the

Research Work of the New Tagil Metallurgical Works. 173-9-20/28

develorment of peripheral flow of (apes. d) An increase in the size of sinter does not cause any substantial decrease in its reducibility, but it considerably improves burder. permeability. e) The life of normal lining in the lower part of the stack in NTZM blast furnaces was usually 2 - 2.5 years. In June, 1956, this part of the stack (No.3 furnace) was lined with carbon blocks and filling of seams with carbon paste from foundry coke 0 - 0.5 mm fraction (50%), pitch (22.5%) and anthracene oil (27.5%). Cooling of the carbon lining (7.2 mm) was done by 3 rows of plate coolers. Chromel-alumel thermocouples were embedded in carbon blocks. After 6 months, the carbon lining retained its designed profile. Investigations indicated uset on transfer to carbon lining the following should be taken into consideration: 1) the thickness of lining can be reduced to 500 mm, 2) a temperature of 1 200 °C is safe for carton blocks and an intensive cooling is not required, 3) seams between blocks should be filled with rapidly-rardening paste and blocks should be ground to a curvature not exceeding 1 mm on a length of 500 mm. F.

Smelting practice of metal for wheels. In order to recrease defects the following conditions are recommended: ue-ixidation with silico-calcium instead of aluminium, metal temperature before Gard3/7 tapping 1 610 - 1 620 °C, ingots 3.6 tons should be cost in 4 - o

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Research Work of the New Tagil Metallurgical Works.

- 이 영제가 영상하는 것 같아요.

min, steel should contain not less than 0.20% of Si G. The control of temperature of liquid steel with immersion thermocouples. Some data on the rate of heating of the bath of open hearth furnaces and temperature changes caused by various additions were collected in tables for guidance as due to a shortage of thermocouples and silica sheaths measurements are carried out only during the production of the more expensive steels. H. Experiments in the application of sinter in open nearth furnaces. Tests indicated that using sinter, its consumption increases by 10 - 13% in comparison with ore, the consumption of lime decreases, de-phosphorisation improves the duration of heat decreases, the quality of metal and the durability of the bottom and banks does not change. I. The use of oxygen in open hearth furnaces. Oxygen addition to flame (oxygen-enrichment 24.5%) decreased the duration of heats by 14.6%; furnace output increased by 15.1%; consumption

of fuel decreased by 15.8%. An investigation of the operation of a 140 ton open nearth J.

furnace with an application of compressed air. Add.tisns of compressed air to flame 1 200 - 1 500 m³/hr increased the output by 9.5 - 11.5%; the durability of root increased ty 6%. Card4/7K. A study of the efficiency of washing checkers. Washing of

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133-7-27/28 Research Work of the New Tatil Metallurgical Works. calibration for F-4-6 that the rtion /i rejects due to hair cracks from 2.4% to 0.04%. Complete freedom from flakes was obtained by rolling rails from cold blooms which passed an intermediate cooling in piles in the reduction shop. N: A decrease in defects on beams of a large cross-section. An investigation of the technology of production of the pear 307310 indicated that defects of ingots cause corresponding defects on beams. The dressing of semis before final rolling decreased the proportion of rejects 2 - 3 times. 0: Some new schemes for rolling ingots on a mill 1150. Rolling of 6.7 ton and 5.58 ton ingots was speeded up by decreasing the number of passes from 15 to 13 (no details given). P. Hard-facing of rolling rolls by welding. Welding apparatus A-384 designed by the Paton Institute was used. Before welding, rolls are pre-heated to 300 - 350 °C for 4 - 6 hours with a multiflame gas burner. The results obtained indicated that welding with electrode wire O8A; 30XTCA and 3X2B8 produces an even welded-on layer. The use of OBA wire is possible without the preliminary pre-heating of rolls but the welded layer has a low hardness and is suitable only for non-working parts of roll passes. Card6/7 Welding with electrode 30XCA using flux AH-348 and the preliminary

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154-7-27/28

Research Work of the New Tagil Metallurgical Works.

pre-heating of the roll produces a layer of considerable hardness. Welding with powder wire requires special welding practice, a considerable pre-heating of rolls and subsequent slow cooling and should be used only for passes undergoing hard wear. R. An increase in the durability of ingot moulds. By blowing oxygen on the iron in the runner during tapping from the cupola, its temperature increases by 40 - 80 C. This treatment decreased the size of graphite inclusions and together with the application of cast reinforcing bands increased the stability of ingot moulds by 3 - 15%; using Khalil jig iron best results were obtained with a chromium content of 0.08 - 0.1%. The consumption of moulds

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CIA-RDP86-00513R001135930003-6

NAGOVITSYN, D.F.

Rapid built-up welding of furnace hearths. Metallurg 5 no.8: (MIRA 13:7) 18-19 Ag '60.

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat. (Metallurgical furnaces -- Maintenance and repair)

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CIA-RDP86-00513R001135930003-6

s/137/61/000/012/076/149 A006/A101 Privalov, I.I., Nagovitsyn, D.F., Lebedev, A.A., Rakevich, K.A., The effect of the weight and reduction of an ingot on the number Kondrat'yev, S.N. AUTHORS : Referativnyy zhurnal Metallurgiya, no. 12, 1961, 3-4, abstract of macro-inclusions TITIES 12D21 ("Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chern. PERIODICAL: metallov", 1960, no. 8, 22 - 32) Non-metailic inclusions in steel are composed of sulfides and oxy-NON-metallic inclusions in Special composed of Sullies and OXY-silicates (aluminum oxides Al_2O_3 and silicates SiO_2) which occur in the steel as macro-inclusions and impair its quality. Macro-inclusions are distributed over the beight berically in a modually decreasing amount from the better to the ter the height basically in a gradually decreasing amount from the bottom to the top Section, where the number of macro-inclusions increases again. The depth of occurrence of the macro-inclusions in a 2.5 ton ingot is on the average 4.75-95.75 mm from the lateral surface, and 15.5 - 21.3 mm in a 3.5 ton ingot; it is 2 - 5.25 mm in blooms of 440 mm size, obtained from a 6.7 ton ingot. The displacement of inclusions for different cases of rolling is discussed. Thus, when Card 1/2

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The effect of the weight and reduction

rolling the ingots on a blooming mill, the macro-inclusions are shifted towards the bloom surface. During the rolling of pipes, sheets and other articles directly from the ingot, macro-inclusions are shifted from the peripheral layers to those adjoining the butt surface. When rolling wheels directly from a 3.5 ton ingot, the macro-inclusions do not reach the peripheral layers during the shift. Tables and diagrams are given showing the occurrence depth of macroinclusions in ingots of different weight.

I. Getiya

A006/A101

[Abstracter's note: Complete translation]

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CIA-RDP86-00513R001135930003-6

S/137/61/000/012/076/149

S/133/60/000/012/002/015 A054/A027

AUTHORS: Rybakov, L.S., Khudyakov, N.A., Krivonosov, V.S., and Nagovitsyn, D.F.

TITLE: Producing Killed Steel With Oxygen Blown Into the Bath of the Open-Hearth Furnace

PERIODICAL: Stal:, 1960, No. 12, pp 1078-1080

TEXT: In view of the successful experience with oxygen in intensifying the firing of open-hearth furnaces and in the production of rimming steel (blowing oxygen through the bath) the NTMK investigated the possibilities of applying oxygen in the production of killed steel (rail,tube and other carbon steels), both for intensifying the burning and for blowing through the bath, in 1958. The main purpose of the tests was to establish the effect of blowing oxygen into the bath on the technology of melting and the quality of steel. The tests were carried out in high-capacity open-hearth furnaces, with cokeoven coke as fuel and the scrap-ore process. In one of the furnaces (λ) oxygen was introduced in the bath through the top, in the other (B) through an equipment arranged at the front. The charge for both furnaces consisted of 62-65% pig iron 35-38% steel scraps, about 5% lime, 8-10% iron ore and agglomerate, Card 1/4

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S/133/60/000/012/002/015 A054/A027

Producing Killed Steel With Oxygen Blown Into the Bath of the Open-Hearth Furnace

0.5% bauxite. In furnace A oxygen was blown into the bath a few minutes after the melting down of the charge, for 10-65 minutes, at 5-6 atm absolute pressures. For rail steel, the oxygen consumption was 1.71 cu m/t, for medium carbon tube steel 2.65 ou m/t and for low carbon tube steel 3.69 cu m/t. In furnace B oxygen was blown into the bath, 60-90 minutes after the pouring of iron, for 10-60 minutes, at 5-10 atm absolute pressures. The oxygen consumption was 2.75 cu m/t for killed steel and 3.98 cu m/t for rimming steel. The tests, generally, proved that blowing oxygen through the bath either during the melting period, or during the period of killing shortened the duration of melting (when having exygen during the killing period, the melting time is shortened by about 20-25 minutes) raises the furnace output and reduces the fuel and oxygen consumption. The velocity of decarbonization increased, when blowing during melting, by 0.6-1.52% and when blowing after melting down of the charge by 0.42-1.17%. Due to the acceleration of slag forming the dephosphorization and the desulfurization of the metal are quicker and more thorough. The phosphor content of steel produced with oxygen blown in was about 0,002-0.008% Card 2/4

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S/133/60/000/012/002/015 A054/A027

Producing Killed Steel With Oxygen Blown Into the Bath of the Open-Hearth Furnace

less than of the conventional types. In most cases the hydrogen content of the metal decreased without the acidity of the metal increasing. Improvement was found in the composition of slag, as a result of oxygen blowing and the quality of steel was also better. The output of railsteel (first class quality) was about 2% higher than with the conventional process, the waste of low-carbon tube steel produced by the new method was lower (0.32,0.385) than of the same type of steel produced without oxygen blowing (1.5 and 1.435). In this respect the best results were obtained when oxygen was blown into the bath during melting. It could also be established that when melting highcarbon steels, blowing oxygen into the bath after melting down is advisable for every kind of steel, irrespective of composition. In the tests G.A. Petrov, N.D. Korneyev, S.N. Golokhmatov, Ye.A. Trunov, B.S.Kanterman took part. There are 2 figures and 2 tables. ASSOCIATION: Ural'skiy politekhnicheskiy institut, Ural'skiy naucho-issledo-

vatel'skiy institut chernykh metallov, XXTK (The Ural Polytechnical Institute, The Jral Scientific Research Institute of Iron and Steel, XXTK).

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NAGOVITSYN, D.F.

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Efficient design of bloom ingot molds. Stal' 20 no. 7:602-667 (MIRA 14:5) Jl '60.

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CIA-RDP86-00513R001135930003-6 "APPROVED FOR RELEASE: 03/13/2001

REVEBTSOV, V.P.; ABRAMOV, B.A.; NAGOVITSYN, D.F.; LEBEDEV, A.A.; OSIFOV, G.V.; TANTSYREV, V.V.; ISUPOV, V.F.; ZAYTSEVA, Ye.I.

Constraints and

Quality of manganese ferroalloys from ores of the Polunochnoye deposit. Stal' 21 no.9:806-809 S '61. (MIRA 14:9)

1. Institut metallurgii Ural'skogo filiala Akademii nauk; Nizhne-Tagil'skiy metallurgicheskiy kombinat i Kombinat im. Serova.

(Ferromanganese) (Polunochnoye region---Manganese ores)

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ARNAUTOV, V.T.; BADANOV, V.M.; ONSKOY, J.A.; PAOTTEBEV, A.I.; BRIDLE, F.A.; TORSHILOV, Yu.L; TRED YAKOV, M.A.; ULOVENKO, V.G.; FORYEDDON, YE.Z.; SHCHEKALEV, Yu.S.; Frintrali uchastiye: MAKAYEV, J.V.; KOMPALIVET, G.M.; NAGOVITSYN, D.F.; NOVOLDISKIY, F.I.; VARSHAUSKIY, V.L.; KOROGODSKIY, V.G.; KLIBANOV, YE.L.: MELVELEVSKIKH, YG.; TALANDEVA, T.I.; DUBFOV, N.F.; DIEMYAN, S.K.; TOLYCHKANOV, B.I.; CHADUSHNIKEV, C.A.; KHARITONOV, YU.A.

Developing and mastering the technology of converting vanadium cast iron in oxygen-blown converters with a 100 ton (Mr) equality. Stall 25 ro. title-608 je 165.

1. Nizhne-Fagir'skiy metallan jakenkiy kombinet (for Concernant niyets, magovitsyn, Novoladskiy, Varshavskiy, Koropedarly, forfanne Medvedevskikh, Telantsever - 2. Spall kiy nabo to istoret of the institut enerykh metallavo for Lutrov, Excepte, Tapyotkanov nikov, Maaritanova.

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NAGOVITSYN, N. A.

NAGO/ITSYN, N. A .-- "Study of Efficiency Factors Characterizing the Losses in the Transmission and Undercarriage of the 3-39 Tractor." Dissertations For Degrees In Science and Engineering Defended at USSR Higher Educati nal Institutions) (29) Min Higher Education USSR, Leningrad Agricultural Inst, Leningrad, 1955

SO: Knizhnaya Letopis! No 29, 15 July 1955

* For the Pegree of Candidate in Technical Sciences

sov/123-59-16-66832 Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 420 (USSR) AUTHORS : Gurevich, A.M., Nagovitsyn, N.A., Bolotov, A.K. Investigations of the Wear of a Test Crankshaft of the D-54 Engine TITLE: PERIODICAL: Tr. Kirovskogo s.-kh. in-ta, 1958, 13, Nr 25, 42 - 48 The new "loop" lubrication system of the crankshaft reduced the wear of ABSTRACT: the crank journals of the shaft and of the bushings of the crank bearings The service life of the crankshaft without balance weights with the new lubrication system is determined by the oval journals of the connecting rod and the maximum clearance in the connecting rod bearings. Card 1/1

NAGOVITSYN, N. A.

Afforestition

Projecting and research work in afforest tion of sto res in 1959-1951. Les. khoz. 5 no. 2, 1950

9. Monthly List of Russian Accessions, Library of Congress, July 1952. Uncl.

- 1. NAGOVITSYN, N. A.
- 2. USSR (600)

出行社会的现在分词

- 4. Afforestation Volga-Don Canal Region
- 7. Frotective forest stands on the Volga-Don, Les. Khoz, 5, No. 11, 1952.

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

K-1+	
UCSR / Forestry. Forest Crops	
Abs Jour: Ref Zhur-Biol., No 13, 1958, 58422	
Author : NAgovitsyn, N. A., Lozovoy, A. A.	;
Inst : Not given	
Title : Problems of Forest Cultivation in the Chinese Peoples' Republic	
Orig Pub: Losn. kh-vc, 1957, No 10, 83-67	
Abstract: According to the data of 1957, the forest- covered area in China constitutes about & per- cent of the total surface of the country. Af- forestation on a vast scale has been conducted forestation on a vast scale has been conducted in the last ten years. Ten million ha. of forest area were planted, 941 forestries were organized, 1,700 forest nurseries were created, and so on.	
Card 1/2	-

CIA-RDP86-00513R001135930003-6 "APPROVED FOR RELEASE: 03/13/2001

BOCHAULESVIE-V.A.; NAGOVITSYN, V.V.; TARATYNOV, V.P.; TEYMIR, D.A.; FILYAND, H.A.

> Stainless free-cutting steel. Metallowed. i term. obr. met. (MIRA 14:12) no.11:41-43 N '61.

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. (Steel, Stainless) (Tool steel)

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30459 s/129/61/000/011/008/010 E073/E135

Bogulyubov, V.A., Nagovitsyn, V.V., Taratynov, V.P., **AUTHORS**: Teymer, D.A., and Filyand, M.A.

Stainless free cutting steel TITLE:

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no.11, 1961, 41-43

Machining of the steel 1X 18H 9 (1Kh18N9) can be TEXT: effectively improved by introducing 0.20-0.40% S. However, a content of over 0.20% S brings about a deterioration in the hotworking properties of the material. This difficulty can be largely overcome if the sulphur is added in the form of sulphides of zirconium or molybdenum. However, the presence of sulphur will always reduce the plasticity and the resistance-to-corrosion of the material. The machinability of stainless steel can also be improved by introducing selenium. A content of 0.15-0.30% Se has no appreciable influence on the mechanical properties of chromiumnickel stainless steel; the elongation, contraction and impact strength are higher than in the case of adding S; the decrease in the resistance-to-corrosion is insignificant. Since Se cannot Card 1/3
CIA-RDP86-00513R001135930003-6

Stainless free cutting steel

30459 s/129/61/000/011/008/010 E073/E135

be used in its pure form, experiments have been made to find Se-containing master alloys which would enable obtaining the required Se content, without generating excessively poisonous substances during the process of melting. The experiments were carried out in high-frequency furnaces of 35-50 kg and 0.5-1.5-ton capacity and in a 1.5-ton capacity arc furnace. It was found that Se-containing steel should be produced in high-frequency furnaces with acidic linings since in these the amount of selenium oxide generated is 5-10 times lower than in basically-lined furnaces (the selenium contamination of the air was evaluated by V.P. Yershov of the Institut gigiyeny truda i profzabolevaniy AMN SSSR (Institute of Hygiene and Industrial Diseases of AMN USSR). The selenium-generation from arc furnaces is higher. The ironbase master alloy should contain 20-25% Se; if the Se content is higher its evaporation increases appreciably. Forming of the steel was without special difficulty, the initial forging The temperature being 1150-1180 °C and the final one 900 °C. thus-obtained blanks were hot-rolled to 6.5 mm and 4.5 - 4 mm strip for further cold-rolling. The hot-rolled strip was quenched from Card 2/3

30459

Stainless free cutting steel

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1050 °C in running water; the Se and S contents did not affect the hardness of the metal after heat-treatment. The machinability and the corrosion-resistance were also tested and comparative tests were made on steel containing S additions. It was found that additions of S or Se to the steel under investigation improved its machinability so that it approaches that of carbon steels. It was also found that additions of S did reduce the resistance-tocorrosion of the material. Addition of Se in a quantity greater than 0.15-0.30% reduces the corrosion-resistance of this steel on exposure to a hot and humid climate, an atmosphere which is contaminated by sulphurous gases, human perspiration and sea mist. There are 2 figures.

ASSOCIATION: TSNIIChM

Card 3/3

的分词就是非常知道我们就是一些意思

5/130/52/000/002/003/005 A006/A1C.

Teymer, D. A., Nagovitsin, V. V., Afonina, V. M AITTHORS :

计学学生的 计学学学生 化

Hot drawing of hard-to-deform steel and alloys (From materials of TITLE: the Coordination Conference)

PERIODICAL: Metallurg, no. 2, 1962, 28 - 30

At the Moscow Conference on hot-drawing of hard-to-deform steels, organized in July 1961 by TsNIIChM, most of the reports were devoted to the prob-TEXT lem of selecting a method to heat the wire prior to drawing. Among various means, such as preheating in molten lead, in gas furnaces and salt baths, the Conference selected preheating by high-frequency current as the most advanced and efficient method. The experimental investigations were made with a 100 kw high-frequency valve generator for preheating up to 9 mm thick wire; for wire of greater thickness a generator of up to 8,000 cycles frequency was used. Subsequently, highspeed steel fire was successfully drawn to 12 - 35% partial and up to 80% total reduction. The drawing speed varied within 30 - 100 m/min. TSNIIChM recommended 230 - 320° C preheating temperature for P18 (R1c) grade steel. The properties of high-speed steel wire, drawn by the hot method, were not different from the pro-

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Hot drawing of hard-to-deform steel ...

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perties of cold-drawn wire. Surface defects can be eliminated by polishing the wire in bundles. This is nowever only effective in the case of wire not over 2.5 mm thick. The design of machines for polishing wires in bundles should be improved in such a manner that the polisning disk would rotate around the wire.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Perrous Metallurgy)

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<u>L. 17451-63</u>	EWP(a)/EWT(m)/BDS	AFFTC/ASD	RDW/JD		
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AUTHORS : Magovi	tain, V. V. J Taraty no	v, V. P.		. 6	2
TITLE: Teomolo	y of emolting steinle	85 89] <i>m</i> 1117-0	mteining en		
	g, no. 8, 1963. 15-16			CANER OT G 2 59 61	
	matic steel, stainles				
selenium, rolled	selenium steel	D 91441 381	AILUM BUGGL, 1	(erroselenium)	
ABSTRACT: The to	chnology of smelting	stainless, se	lonium-contai	lning automat	C
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meditsinskikh nat	k SSSR (Institute of	C gigiyenyt (ruda 1 profse	bolevaniy Ake	demli
plants. The first	t stop in the process	consists in	"Electrosta	and Chelys	binsk
chamber furnace	Exture of 255 pende	at 900-950C 1	n a well-vent	ilated gas-he	ated 27
THE REAL PARTY OF THE PARTY OF	cans. These cans are ion furnaces after the				A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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LUBENETS, P. A., NAGOVITSYNA, A.V.

Grasses

新創設

Use of seeds of wild-grown perennial grasses in Kuban. Korm. baza 3 No. 7, 1952

Monthly List of Aussian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

CIA-RDP86-00513R001135930003-6

NAGOVITSYNA, A. V.

"Wild Perennial Grasses of the Krasnodar Kray and Their dole in Grass-Field dotation." Cand Agr Sci, All-Union Inst of Plant Growing, Leningrad, 1954. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

SHCHERBAKOV, V.N.; NAGOVITSYNA, L.N.; OSIPOV, I.S.

X-ray investigation of structural changes and mutual arrangement of individual grains in specimens of low-alloy iron in the process of deformation by pure tension. Fiz. met. i metalloved. 9 (MIRA 14:5) no. 4:510-514 Ap '60.

1. Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut. (Iron alloys-Metallography) (Deformations (Mechanics))

NHEEN IT SINA, MIH MAKSIMOV, P.M., professor; NAGOVITSINA, M.A. Exchange transfusion in the treatment of hemolytic shock and of posttransfusion anuria. Khirurgiia no.3:51-53 Mr '55. (MLRA 3:7) 1. Iz gospital'noy khirurgicheskoy kliniki (zav. prof. P.M.Maksimov) Ivanovskogo meditsinskogo instituta. (BLOOD TRANSFUSION, exchange, ther. of post-transfusion hemolytic shock & anuria) (SHOCK. post-transfusion hemolytic shock, ther., exchange blood transfusion) (BLOOD TRANSFUSION, complications, shock & anuria, ther., exchange transfusion) (ANURIA, etiology and pathogenesis, blood transfusion, ther., exchange transfusion)

APPROVED FOR RELEASE: 03/13/2001

MAKSIMOV, P.M., professor; NEVSKIY, A.A., assistent; NAGOVITSINA, M.A., assistent; MARTYNOV, P.V., assistent; URLASHEVA, A.V., assistent

Substitution of blood in clinical practice. Vest.khir. no.5: 30-33 '61. (MIRA 15:1)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. P.M. Maksimov) i gospital'noy terapevticheskoy kliniki (zav. - prof. Ye.S. Myasoyedov) Ivanovskogo meditsinskogo instituta. (BLOOD PLASMA SUBSTITUTES)

APPROVED FOR RELEASE: 03/13/2001

世纪的中学的现象的状态。 在1990年年史的代表的大学的学校和**国际**和国家

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	USSR/Frr	Ani cli. The Swine	2-1.	·
•	Abs Jour	: Ref Zhur - Biol., No. 11, 1958, No. 500' 4		
	Inst	 Neverising Market Kirginich Scientific Recourch Institute of Anisel Husten and Veterinery Sciences. Characteristics of Early Maturity, Folder Oct, and Mont Lard Qualities of Londing Interrelated Breeds of Sows. 		
	Orig Fut	: Eyul. neuchno-takhn. inform. Kire. ni. in-se phivetnev Estvoli vat., 1956, No 1-2, 32-34	·c -	
	Abstract	: Experimental fattaning of 4 interrelated group of your was performed at the kolkhom isoni H. Marx in the Kirgin SSR. In the lateroup, the overall nutrient value, of Usily rations which consisted of 13.3 percent of roughed juicy facts, of 79.8 percent of concentr (a) fact, and 1.9 percent of anial arisin facts, asounds to 3.05 kg feed unit, in the and group to 3.00 kg, in the 3rt group 2.07 kg, and in the 4th group to 3.21 kg. At the age of conthe the highest live weight of 177 keyes found to a	te and Uf af f f ta f 10	
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in the let group. In the 2nd group it rounted to 170.1 k, in the 3rd group to 170.7 kg, and in the 4th group to 171.7 kg. Recording to group, the following feed units were the odd of the sum expended during the entire fottening-up period: 844.5 kg, 787.0 km, 721.2 kg, nm 790.0 kg. But result: word "chieved with your," as of the 3rd group in terms of face! esst; in torus of early esturity with the e of the lat group.

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CIA-RDP86-00513R001135930003-6 "APPROVED FOR RELEASE: 03/13/2001

IZOKH, E.P.; KOLMAK, L.M.; NAGOVSKAYA, G.I.; RUSS, V.V. KUREK, N.N., red.; GODOVIKOVA, L.A., red.izd-va; AVERKIYEVA, T.A., tekhn.red.

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[Pozdnemezozoiskie intruzii tsentral'nogo Sikhote-Alinia i sviaz's nimi orudeneniia. Moskva, Gos. nauchn.-tekhn. izd-vo (MIRA 11:4) soiuznyi geologicheskii institut. Trudy, vol.21). (Sikhote-Alin' Range--Mineralogy)

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NAGR, J.

Autumn work in the fields must be finished in time. p.21/

MECHANISACE ZEMEDELSTVI. (Ministerstvo zemedelstvi a lesniho hospodarstvi) Praha, Czechoslovakia. Vol.9, no.10, Oct.1959

Monthly List of East European Accessions (EEAI) LC, Vol.3, no.12 Dec.1959 Uncl.

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APPROVED FOR RELEASE: 03/13/2001

NAGRADOVA, N.K.

Effect of carnosine on glycolytic oxidation-reduction reaction associated with phosphorylation [with summary in English]. Bio-(MIRA 12:3) khimiia 23 no.4:511-522 Jl-Ag '58. 1. Chair of Animal Biochemistry, The Moscow State University, Moscow. (CARNOSINE, effects,

on glycolytic oxi-reduction with phosphorylation (Rus)) (PHOSPHATES, metabolism, eff. of carnosine on phosphorylation with glycolytic oxi-reduction (Rus)) (OXIDATION REDUCTION, same)

APPROVED FOR RELEASE: 03/13/2001

NAGRADOVA, N.K.

Studying the properties of 3-phosphoglycereldebyde dehydrogehase and soluble X-glycerophosphate dehydrogenase. Biokhimiia 24 no.2:336-344 Mr-Ap 159 (MIRA 12:7)

1. Chair of Animal Biochemistry, the State University, Moscow. (DEHY DROGENASES, 3-phosphogyceraldehyde dehydrogenase & soluble of glycerophate dehydrogenase (Rus))

CIA-RDP86-00513R001135930003-6

Severin, S Ye . Corresponding Member, SOV/20 121 3-34/47 AUTHORS: Academy of Sciences, USSR, Nagradova, N. K. Characteristic Features in the Action of Dehydrase of Phospho-TITLE: glycerin Aldehyde (Ob osobennostyakh deystviya degidrazy fosfoglitserinovogo al'degida) Doklady Akademii nauk SSSR, Vol. 121, Nr 3. PERIODICAL: pp 519 522 (USSR) 1918 Among all factors determining the velocity of the enzymic ABSTRACT : reaction those effects which influence the suppression or the activation of the ferment are most important. We know from publications that not only substances of non-physiological nature (poisons, various synthetical compounds) but also natural transformation products may act as inhibitors. The effect of those natural products may be used to regulate the velocity of biochemical prodesses The authors noticed that the activity of the dehydrase PGA depends to a great extent on the type of buffer used in connection with the reaction of the glycolytic oxide reduction. The glycine buffer had the most favorable effect on the ferment. In the veronal and phosphate buffer the dehydrase Card 1/3

CIA-RDP86-00513R001135930003-6

SOV/20-121-3-34/47

Characteristic Features in the Action of Dehydrase of Phosphoglycerin Aldehyde

> was suppressed. This suppression could be eliminated by the addition of amino acids and dipeptides. The reaction in the bicarbonate buffer which contained different amounts of phosphate enabled the authors to find out that the bicarbonate buffer suppresses the dehydrase PGA This problem is treated in detail in the paper. The authors used a bicarbonate phosphate buffer without special activators; they did use, however, redistilled water Table 1 A shows that the reaction depends on the concentration of inorganic phosphate. The impression is gained that higher phosphate concentrations bind the active dehydrase centers and thus prevent the reaction. An addition of histidine leads to the release of any reactive groups. Thus there is an increase of the enzymic activity and subsequently the amount of organic phosphorus necessary for the reaction. The activating effect of the amino acid does not completely eliminate the inhibiting effect of phosphorus. Its importance may lie in the protection of dehydrase against the action of other inhibitors. As can be seen from figure 1 a part of this action apparently consists of interaction between phosphate histidine and the active dehydrase centers Various amino acids have different protecting

Card 2/3

APPROVED FOR RELEASE: 03/13/2001

SCV/20-121 3 34/47 Characteristic Features in the Action of Dehydrase of Phosphoglycerin Aldehyde

> effects. Furthermore, the nature of the mentioned inhibition was determined Figure 3 shows that competitive reactions between the reaction substrate and the phosphate exist. The higher the substrate concentration the stronger the inhibition. Apparently phosphoglycerin aldehyde competes with phosphate for the possession of some active centers in the protein. The activating effect of the amino acids may be due to the protection of those centers against phosphate and to the guarantee of a more rapid interaction between ferment and substrate. Figure 4 reveals that the effect of the amino acids decreases with in creasing concentration of phosphoglycerin aldehyde. There are 4 figures and 15 references. 1 of which is Soviet.

ASSOCIATION Moskovskiy gosudarstvennyy universitet im M.V.Lomonosova (Moscow State University imeni M V Lomonosov)

January 22 1958 SUBMITTED: Card 3/3

2. 资料系统服用的处理的复数

NAGENDOVA, N.K.

iffect of first fine and other coelecting egents of the actually of phosphogly.evel there decydrosee trom the varies of a rabbit. Brokruine ? A 155057 Jans 165. (MPA 1996)

NAGREBETSKIY, V., polkovnik

The principal instrument of imperialist aggression. Komm.Vooruzh.Sil 1 no.3:75-79 F '61. (MIRA 14:8) (North Atlantic Treaty Organization)

NAGRINYAK, Ye.A.; KATS, G., red.; GORYACHENKO, F., tekhn. red.

[Thirty-seven centners of winter barley per hectare] 37 chentnere de orz de toamne la khektar. Kishineu, Editura pentru literature agrikulturii al RSS Moldovenesht', 1962. 11 p. [In Moldavian] (MIRA 15:6)

(Moldavia-Barley)

MOROZOV, A.I.; NAGRODSKAYA, A.Z.

rena rotan

Prevention of radiation injuries to the eyes in radiotherapy. Vest. rent. i rad. 31 no.4:48-51 J1-Ag '56. (MLRA 9:10)

1. Iz radiologicheskogo otdeleniya (zav. - prof. A.V.Kozlova) TSentral'nogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M.Molotova (dir. - dotsent I.G.Lagunova) (FACE, neoplasma radiother., prev. of eye inj. with x-ray) (RADIOTHERAPY, in various dis.

cancer of face, prev. of eye inj. with x-ray) (EYE, wounds and inj. x-ray inj. prev. in radiother. of cancer of face)

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