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. l.

| ACC NRI AP6032534 | SOURCE CODE: UR/0413/66/000/017/0141/0141 | 8 |
|--|--|--------|
| | zanov, B. V.; Nistratov, A. F.; Gol'man, L. D.; S.; Fridman, A. Z.; Kitain, R. S.; Kurovich, A. N.; y, F. I.; Kozhevnikov, V. F.; Zonenko, V. V. | |
| ORG: none | | 1 |
| [announced by the All-Union Sc Design of Metallurgical Machin konstruktorskiy institut metal | preed with wire wrapping. Class 58, No. 185696 ientific Research Institute for the Planning and mery (Vsesoyuznyy nauchno-issledovatel'skiy i proyektn lurgicheskogo mashinostroyeniya)/ | 0- (|
| SOURCE: Izobreteniya, promysh | ilennyye obraztsy, tovarnyye znaki, no. 17, 1966, 141 | |
| TOPIC TAGS: hydraulic press, | reinforced hydraulic press, HUDRAULIC EQUIPMEN | ידין |
| ABSTRACT: This Author Certiff Fig. 1) with wire wrapping. | icate introduces a hydraulic press reinforced (see The press includes a cylinder, housing consisting of | 26 |
| which makes it possible to wi | and columns with a concave over shere the housing. To nd a reinforcing band or wire around the housing. To nomic characteristics and the reliability of the press the housing is provided with stiffenning ribs located | 5 |
| at the same main parameters, | | |
| C 1/2 | UDC: 621,226 | |
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KO2HEVNIKOV, Viktor Grigor'yevich; MILOV, Sergey Grigor'yevich; SELETSKIT, S.I., red.; MIKHAYLOVA, L.G., red.izd-va; PARAKHINA, N.L., tekhn.red. [Nechanization of log loading and sorting in lumber mille] Mekhanizatsia vygruzki i sortirovki brevon na losozavodakh. Moskva, Goslesbumizdat, 1961. 161 p. (Savmills) (MIRA 15:4)

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BUN'KO, V.A., kand. tekhn. nauk; PODOL'SKIY, V.A., kand. tekhn. nauk; KOZHEVNIKOV, V.L., inzh. Industrial testing of apparatus for increasing safety in contact networks of electric locomotive haulage. Vop. rud. transp. no.5:345-350 '61. (MIRA 16:7)

j.

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· 11-

KOZHEVNIKOV, V.M.

Development by wheat of additional spikelets in the same region of the axis of the ear. Sbor. trud. asp. i mol. nauch. sotr. VIR no.5:19-24 ¹64. (MIRA 18:3)



CIA-RDP86-00513R000825810009-8

S/598/61/000/006/001/034 D245/D30

AUTHORS: Ogurtson, S.V., Reznichenko, V.A., Ustinov, V.K., Kozhevnikov, V.N., and Dedkov, A.I.

TITLE: Basic conditions for the magnesiothermal process of producing titanium

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego splavy. no. 6, 1961 Metallotermiya i elektrokhimiya t**a**tana, 3 - 13

TEXT: A series of experiments was carried out in a laboratory reactor to study the distribution of reaction components in the formation and growth of Ti sponge and the factors governing the reaction of TiCl₄ with Mg. In all experiments, the following were recorded: Furnace temperature before insertion of retorts, furnace heating rate, Ar temperature and pressure in the retort at the beginning of the process, amount of MgCl₂ formed and pressure over the tanks containing TiCl₄. The Mg was completely fused prior to the process. An exponential relation was found between the feed Card 1/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825810009-8 Basic conditions for the ... rate of TiOl₄ and specific pressure. Detailed results are shown in diagrams. The authors conclude that automation of the process can best be effected by optimum programming of TiOl₄ feed. There are 4 figures.

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| daily aid | in completing this | flow. "In conclusion I consi te scientific guidance of Prof problem, and also to B. N. T | essor A. P. I | mbyuk for |
|-----------|--------------------|--|---------------|-----------------------|
| | N: Moskovskiy gos | Orig. art. has: 1 figure and udarstvenny#y universitet im. | | 19月1日において、日本の19月1日の開設 |
| SUBMITTED | Y GAVI | DATE ACQ1 20Sep63 | | ENCL: 00 |
| SUB CODE: | PH, AS | NO REP SOV: 011 | | OTHER: 008 |
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POBEDINSKIY, M.N., professor, redaktor; KOZHEVNIKOV, V.P., professor, redaktor; KISELEV, P.N., professor, redaktor; DOLGOV, A.F., redaktor; MARGULIS, U.Ya., redaktor; BEL'CHIKOVA, Yu.S., tekhnicheskiy redaktor.
[Use of radioactive phosphorus in the treatment of skin diseases]
Primenenie radioaktivnogo fosfora dlia lechenia kozhnykh zabo-levanii. Moskva, Gos.izd-vo meditsinskoi lit-ry, 1955. 171 p. (MLRA 8:10)
1. Chlen-korrespondent AMN SSSE (for Kozhevnikov).

(PHOSPHORUS--THERAPEUTIC USE) (SKIN--DISEASES)

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هد چ ۲

| んってわせ AUTHOR: TITLE: | KOZHEVNIKOV, V.P., UZIYENKO, A.M., KUSTOBAYEV, G.G. PA - 2379 Rise in Productivity of the No 2 Blooming Mill. (Uveliche- niye proizvoditel'nosti bluminge no 2, Russian). | ••• |
|----------------------------|---|-----|
| PERIODICAL: | Stal', 1957, Vol 17, Nr 1, pp 47 - 52 (U.S.S.R.). Received: 5 / 1957 Received: 5 / 1957 | • |
| ABSTRACT : | A research-party occupied itself with the study of the work of individual rolling mill train and aggregates, and visualized various measures in order to increase the productivity of the blooming mills. Here no 2 blooming mill is concerned. Recon- struction after 1946 and the therewith connected rise in pro- ductivity up to 1955 are described. In 1946, before reconstruction blocks of 6 - 6,6 t on ingots of 210 x 210 and 230 x 230 were bloomed. 9 groups of regeneration soaking pits existed, there followed shears for max 650 t and the billet rolling trains 630 and 450, each consisting of 6 roll stands. Investigations were carried out by the uninterrupted photographing of the rolling process, registering of operationsby means of a chrono- meter, and by determination of the productivity of the ag- gregates. It proved to be necessary to reduce the total rolling time, to increase the weight of the blocks to be rolled, to in- crease the permeability of the soaking pits, and to improve the quality of heating, to increase the rolling velocity on the billet rolling trains 450, and to increase the permeability of | |
| Card 1/2 | billet rolling trains 400, and to increase the pollocology | |
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PA - 2379 Rise in Productivity of the No 2 Blooming Mill. the cooling beds. After having carried out all these measures the rolling-velocity on the train 450 rises by 28 % and billets 97 x 97 mm were produced which are much more rational. 1955 two roll trains were put into operation. The one led from the blooming mill to the billet rolling train 630, and then to 450. On the second the material moves to 630 by means of a tractor, on the roll tables to the bench shears No 2, without moving the train 450, where they are cut up as billets for the sectional iron trains. The rise in productivity amounted to 86,5 % in 1955 as compared with 1946. (3 tables, 4 illustrations) ASSOCIATION: Metallurgic Combine of Magnitogorsk. PRESENTED BY: SUBMITTED: Library of Congress. AVAILABLE: Card 2/2

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CIA-RDP86-00513R000825810009-8

85530 8/133/60/000/009/008/015 A054/A029

18,5100

AUTHORS: _ Kozhevnikov, V.P. Shternov, M.M.

TITLE: About Rolling With Over-Reduction

PERIODICAL: Stal', 1960, No. 9, pp. 827-828

In recent years many experiments have been carried out to utilize TEXT: the "reserve" frictional forces in the rolling process in order to increase the rate of reduction. Several suggestions have been made to employ the optimum relation between the forces pushing and pulling the strip after the bite, for instance, to use tapered strips, special devices for the forced pushing of the strip, to press the rolls after the strip has been pushed in with a special mechanism, etc. According to experience in the Magnitogorskiy metallurgicheskiy kominat (Magnitogorsk Metallurgical Combine), these methods have certain drawbacks. In the first place, the increase in reduction did not always increase the output of the continuous, semi-continuous and cross country mills. When rolling with reductions which are near the limit of the bite conditions, certain difficulties arise. For instance, the bite becomes unreliable, thus slowing down the process speed, slippage also increases the time of the rolling process, breakdowns of the machine become more frequent, etc. Evidently, rolling with reductions be-Card 1/3

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85830 s/133/60/000/009/008/015 A054/A029

About Rolling With Over-Reduction

yond a certain limit will even aggravate these phenomena. The reserve of frictional forces in shaping mills appears to be slightly lower than in theory. Soft steel strips are nipped fairly easily at $\alpha = 19-22^{\circ}$, but soon after the grip they tug and skid interfering with the rhythm of the operation. Ine increase in the rate of reduction is suggested mainly for blooming mills by several research workers. However, for this kind of mills the limits set for the bite dc not correspond to the normal operation of the electric motor. The best way of increasing the output of shaping mills, as found in the Magnitogorsk Metallurgical Combine, is the differentiation of the dimensions of products, by which the reductions could be considerably decreased on shaping mills. However, according to the author the output of the mills can be raised more efficiently by working with 10 or even with 12 stands operating in the conventional manner than by using 8 stands and apply groeves or other measures to increase the rate of reduction. In some cases it is justified to increase reduction, for instance, on old-type shape mills with three-roller roughing stands. On these mills an increased rate of reduction resulting in a smaller number of passes, to some extent increases productivity. Also on some types of continuous sills good results can be obtained

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About Rolling With Over-Reduction

by an increased rate of reduction, because on these machines the forced feed can increase the degree of reduction without changes in the design of the equipment. The output can be increased best by mechanization and automation, by increasing the rolling speed, by adding more stands and lines, by using a successive instead of a linear arrangement of the stands, but in any case, the operation of the stand must be based on a normal (not forced) angle of bite.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (<u>Magnitogorsk Metallurgi</u>cal Combine)

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| I, 44005-66 EWT(m)/EWP(t)/T/ETI/EWP(k) IJP(c) JD/HW ACC NR: AP6029871 SOURCE CODE: UR/0413/66/000/015/0022/0022 |
|---|
| |
| INVENTOR: Voronov, F. D.; Filatov, A. D.; Gun, S. B.; Selivanov, N. M.; Nosov, |
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| |
| Kustobayev, G. G.; Polushkin, V. P.; Atknipov, V. H.; Grudev, P. I.; Aksenov, B. N.; Kozhevnikov, V. P.; Shapiro, B. S.; Kalugin, V. F.; Grudev, P. I.; Aksenov, B. N.; Khomyachkov, A. P.; Rudakov, Ye. A.; Kuzema, I. D.; Gomzhin, V. V.; Poydyshev, B. N.; |
| |
| Shternov, M. M. 58 |
| ORG: none |
| TITLE: Method of making high-strength steel plates by pack rolling. Class 7, |
| No. 184232 4 |
| |
| SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22 |
| TOPIC TAGS: high strength steel, high strength steel plate, high strength |
| steel sheet, steel plate rolling, steel sheet rolling |
| ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength |
| |
| I me Instant das standas Vosting, Making OF the Dack, Heduling, |
| rolling and subsequent heat treatment. To ensure an accurate thickness of the plates |
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| Card 1/2 UDC: 621.771.23 |
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Experiences in the transition to a shortened working day. KoZh.-obuv.prom. no.10:7-8 0 '59. (MIRA 13:2)

1. Nachal'nik otdela truda i zarplaty fabriki "Belka." (Leather industry--Labor productivity) (Hours of labor)

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CIA-RDP86-00513R000825810009-8

SOV/130-58-11-13/16 AUTHCR: Kozhevnikov, V.V. Automatic Detection of Strip Breaking in an Anodic TITLE: Electrolytic Cleaning Line (Avtomaticheskiy kontrol' obryva polosy na linii anodno-elektroliticheskoy ochistki) PERIODICAL: Metallurg, 1958, Nr 11, pp 40-41 (USSR) ABSTRACT: In the tinelate shop of the Magnitogorskiy metallurgicheskiy kombinat (Magnilogorsk metallurgical combine) an anodic cleaning line is installed in which breakage of the strip is liable to occur. The quicker such breakages can be detected and the line stopped the less the disruption of production. The author has developed an installation in which the distance of the strip from a set point is measured indirectly with the aid of induction transducers (type 1KV-10 made by the "Elektroprivod" trust): in the event of breakage the distance increases, and the resulting change in current from the transducer Card 1/2

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S/118/60/000/009/005/009 A161/A026

AUTHOR: Kozhevnikov V Engineer

TITLE: Automatic Thickness Control of Strip in Continuous Rolling Mills

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 9, pp. 18-9

TEXT: According to information by the central laboratory of Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine), the thickness difference between the front and rear end of a strip rolled in a continuous mill varies between 0.03 and 0.47 mm. The article describes the design and operation of an automatic strip thickness regulator developed by Laboratoriya elektroprivoda i avtomatiki (Laboratory of Electric Drives and Automation) of NIPIGORMASh for a five-stand rolling mill of the Magnitogorsk Combine thin sheet shop. The regulator works on the screwdown drive of the first mill stand. A contact micrometer of $\Im MK - \Im M$ (EMK- $\Im M$) type behind the first stand is used for indication of thickness deviations. A block diagram of the regulator is given (Fig. 1) (where M - the micrometer; $\oiint YB$ (FUV) - phase-discriminating amplifier-rectifier; HTT (NP) - nonlinear converter where the controllable insensitivity zone, work zone and blocking zone is formed (1,2, and 3, respectively, in Fig. 2). The blocking zone

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Automatic Thickness Control of Strip in Continuous Rolling Mills

is needed to prevent screwdowns displacement when the micrometer rollers are idling. Transformed voltage is amplified in the power amplifier YM (UM) (Fig. 1) and fed to the excitation windings of an electromechanical amplifier of quadratic generator-motor $\Gamma \mathcal{A}(GD)$ system that controls the screwdown drive. Stable negative generator-voltage feedback is fed to the input of the power amplifier. A tachometer generator T(T) matches the regulator with the strip speed. The screwdowns are returned into start position by the PBN (RVI) relay, switching the thickness control system from the micrometer over to the selsyn C (S) which is connected through an electromagnetic clutch ЭМ (EM) and a kinematic reducer directly to the screwdown. The system is in use for 8 months and proved reliable. The first step for elimination of uneven strip thickness in the "1,450" mill was the automatic system for holding down the rear strip end. Detailed description of its operation is given. It works in time function only. The additional compression of the rear strip end for 1 mm in one stand reduces the thickness unevenness by 0.1 mm. When such additional compression of the rear strip end was used in three stands, the thickness unevenness was reduced by 0.25 mm. There are 3 figures.

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CIA-RDP86-00513R000825810009-8

S/118/60/000/012/002/009 A161/A033

AUTHORS: Kozhevnikov, V.V., and Shvartsgorn, M.A., Engineers TITLE:

Automatic Seam Detection in Steel Strip

Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 12, PERIODICAL: Pp. 7-8

TEXT: Two continuous sheet cold-rolling mills in the rolling shop No. 3 of the Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine) are rolling sheet from 2.2 mm strip hot-rolled from 3-ton slabs; 3-ton strips are being joined by butt-welding during pickling (or cleaning) into 15-ton coils. The mill must be slowed down to pass a seam for otherwise the strip may get torn apart and the rolls scarred. At present the mill operators have to watch, and they tend to decelerate too early and sometimes miss a seam despite this. The Automation Laboratory of the Combine has designed an instrument with a light source and two photo-heads that detects the seam at the right moment and decelerates the mill with a time delay. The seams are marked by paint. The instrument is placed in front

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Automatic Seam Detection in Steel Strip

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of the mill (Fig. 1) and measures light reflected from the strip and from the paint. The system is illustrated by block diagram (Fig.2). The P5 (RB) relay is the memory unit for commands from the photorelay $\phi P(FR)$, it gives commands to electronic time relay JPB to start counting time. Voltage proportional to rolling speed is supplied from tachometer generator $T\Gamma$ (TG) that is coupled with the work rolls of the first mill stand; an additional resistance switches into the excitation winding of the main drive generator, and the rolls decelerate. The operator has to press the "Copoc" ("off") push button when the seam has passed, to return the system to zero. The Φ CK-1 (FSK-1) cells in the comparing and amplifying unit of the photo-relay are high-sensitive. The comparing unit is a cathode follower with a 60K4 (6Zh4) tube. Signals from the comparing unit go to the input of the amplifier of the photo-relay \$PC-53. The output relay is of the P9-100 (RE-100) type. The electronic time relay (Fig.3) has a cathode circuit trigger receiving voltage from the tachometer generator. The seam passage signal opens the PE relay contacts, and the capacitor charges. When the grid voltage exceeds the closing potential, the trigger jumps over into the new stable

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Automatic Scam Detection in Steel Strip

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state. The capacitor-charging time determines the relay operation time, and the charging time depends on the tachometer generator voltage that is proportional to the work rolls velocity. The P_G contact closes after the passing of a seam, and negative voltage goes to the tube grid, and the trigger returns into stable state. There are 3 figures.

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S/133/62/000/008/003/003 A054/A127

AUTHORS: Knusid, S.Ye.; Kozhevnikov, V.V.

TITLE: The application of computers at the Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)

PERIODICAL: Stal', no. 3, 1962, 760 - 763

TEXT: The computers used at this combine operate either on non-heating transistor units or on electron tubes. Some of the computers operate continuously and are used to obtain information and to control the characteristics of a production process, while others operate discretely under current or voltage impulses. The computers and computer-systems have been designed by the Tsentral'nyy nauchno--issledowatel'skiy institut kompleksnoy avtomatizatsii (TsNIIKA) (Central Scientific Research Institute of Overall Automation), Nauchno-issledowatelskiy institut upravlyapushchikh vychislitel'nykh mashin (NIIUVM), (Scientific Research Institute of Control Computers), Leningradskiy institut inzhenerov zheleznodorozhnogo transports, (LIIZhT), (Leningrad Institute of Railway Engineers), Leningradskiy gormyy institut (Leningrad Mining Institute), Tbilisskiy nauchno-issledovatel'skiy institut sredsty avtomatizatsii (Tbilisi Scientific Research Institute of Means

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The application of

of Automation), Institut avtomatiki i telemekhaniki (IAT), (Institute of Automation and Telemechanics), TSNIICnM, etc. Computers were first applied by the combine for controlling flying shears which cut strips up to 10 mm thick on the 2,500 mm stand into sheets up to 2,350 mm wide and 2.5 - 12 m long. The schematic operation diagram of the shears which is given in a figure is based on the following algorithm: A

A - \sum_{0}^{A} n = 0, (A = represents the given sheet length with

correction, n = the number of impulses obtained from the path transmitter). In cutting the first sample sheet the following algorithm is used:

 $A + B - \sum_{i=0}^{C} n = 0$ (B = constant coefficient, C = A + B).

Controlling this operation by computer saved 1 million rubles a year, mainly by eutting the deviation in sheet length from 300 to 30 mm. The instrument costs 1000 rubles. The CTAJB-1 (Stal-1) type computer controls the cutting out of sneets without losses by means of planetary shears on the 450 stand. The computer, which is mounted between the 630 stand and the shears controls with a

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The application of

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photorelay the length of sheets to be cut and registers on a punched card the theoretical weight of sheets turned out by the 630 and 450 stands, the number of slabs rolled, the number of sheets passing the shears, the number of heats, etc. The data are recorded by the standard NI -45-2 (PD-45-2) type punching machine. The apparatus consists of ferrite-diode cells, which are divided into measuring, cutting-out and weighing units. The Stal-1 computer increased the annual output of the stand by 22,000 tons and saved about 400,000 rubles. The YBY (UVU) computer is used in combination with a photoelectric flaw detector, radioactive thickness gauge, electro-magnetic switch-over devices and photorelays for the continuous elimination of defective sheets, 0.2 - 0.6 mm thick, which move at a 5 m/sec rate and are cut in sizes of 512 - 1500 mm. Sheets not coming up to the standard thickness or having holes are removed from the flow line and directed into the rejects receiver. The computer operates on the principle of the shift register and the following mathematical function: $x = A \cdot 2^n - \Delta - \Delta_1$ [where x = the coordinate of the position of defective sheet in relation to the flaw detector axis; A = measuring pitch of this coordinate which equals one sheet length; n = number of the cut sheets after the defect has been detected, $(n = 0, 1, 2...); \Delta = correction$ for the ratio of sheets, necessary because the distance between the flaw detector and switch-over is not the integral multiple of the number of sheets; Δ_1 = correction for the transit of the strip into the sheet]. The block diagram of UVU, which Card 3/5

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S/133/62/000/008/003/003 A054/A127

The application of

saves 400,000 rubles a year, is given in a figure. Computers are used in ore mining, to supply the dressing plants with ores of the prescribed composition. The algorithm governing this control process consists of two parts, one relating to the changes in the quality and quantity of the ore for every kind of ore mined, based on information obtained from the mining machines, regarding the actual conditions of ores. In the computer information is fed also on stocks in hand, the amounts required by the dressing plant, etc. Based on the information obtained the computer informs on the amount of ore dispatched, the iron content of the ore, the deviations from the standard composition. It makes any necessary corrections, determines the numbers of RR cars required for the dressing plant and where the cars are needed, moreover the place of discharge of the ores. The car trains are controlled by the transport algorithm, based on the distances of block sections, junctions, number of stations to be passed, etc. The collected data are transmitted to the central dispatcher board; the data on the required changes in the processes are produced in print. In 1961, a computer center was established at the Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine), based on the YPAJI-1 (URAL-1) type computer, with a capacity of 100 instructions per sec., consisting of 800 electron tubes and 3000 crystal diode-rectifiers; the computer covers an area of approximately 40 m². Information is fed in by means of punched films passing through a photoelectric instrument, the Card 4/5

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The application of

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memory device consists of a ferro-lacquer-coated rotating drum, the external storage element is a magnetic tape. The URAL-1 is applied, inter alia, for determining the pattern of rolled products, the natural gas consumption in open--earth furnaces, the weight of finished products, the output of the blooming and the slabbing mills, the load of the principal engines as to root mean square current, the parameters of blast furnace operation. Computer systems with light signals for the operator have been designed for the stripping shops and soaking pits. Apparatus controlling the transport systems operate on mnemonic schemes. For centralised control of blooming mills algorithms have been developed to determine heat conditions (temperature of soaking pits, fuel consumption, etc.); the coordination of blooming and soaking pits and the transport. If there are deviations from the schedules given for these units, the algorithm gives instructions for appropriate changes in the algorithms of heat conditions and transport. This unit of the computer system issues printed information on the time discrepancies between various shops involved, on the condition of soaking pits covering about 500 parameters. The transport algorithm commands the dispatching of slabs onto the blooming mill train and the setting of slabs into the soaking pits with a minimum of heat loss. There are 2 figures.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Card 5/5 Combine)

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KHUSID, S.Ye.; KOZHEVNIKOV, V.V.

Use of computer techniques at the Magnitogorsk Metallurgical Combine. Stal' 22 no.8:760-763 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat. (Magnitogorsk--Iron and steel plants) (Automation)

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SOV/4857

PHASE I BOOK EXFLOITATION

Kozhevnikov, Vasiliy Yakovlevich, Ivan Gavrilovich Ksenzhuk, and Ivan Ivanovich Khudyakov

Gorizontal 'no-kovochnyye mashiny; ustroystvo, elementy rascheta i obsluzhivaniye (Horizontal Forging Machines; Arrangement, Fundamentals of Designing, and Servicing) Moseow, Mashgiz, 1960. 236 p. 6,000 copies printed.

Reviewer: I. I. Girsh, Candidate of Technical Sciences; Eds.: A. V. Sivay, Docent, and D. B. Rikberg; Chief Ed. (Southern Department, Mashgiz): V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for technical personnel in factories, design bureaus, and scientific research organizations.

COVERAGE: The book contains detailed descriptions of Soviet-made horizontal forging machines (upsetters). The design calculations of these machines are also given. Basic operational problems (setting-up, control, servicing) are examined, and brief comparative data on non-Soviet upsetters are presented. New

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Horizontal Forging Machines (Cont.)

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constructional solutions of the subassemblies of machines, based on experience gained during their design, manufacture, operation and repair are given special attention. The upsetters built by the Novo-Kramatorskiy mashinostroitelinyy waved (New Kramatorsk Machine-Building Plant) have been used to illustrate design calculations, and machine operation and servicing. Chs. II, III, V, IX, and Secs. 1 and 3 of Ch. I were written by V. Ya. Kozhevnikov; Chs. IV, VI, VII, VIII, X, XI, XII, and Sec. 2 of Ch. XIII were written by I. G. Ksenzhuk; I. I. Khudyakov wrote Chs. XIV, and XV, Sec. 2 of Ch. I, and Sec. 1 of Ch. XIII. The theoretical material of Chs. II, III, IV and V pertaining to the construction of kinematic diagrams of the clamping mechanism, the construction of the cycle diagram and the determination of the angles of action of cams were taken primarily from works published during 1946-1956 by I. I. Girsh,Candidate of Technical Sciences, (TSNIITMASh). The authors thank Engineers B. S. Karasev, Yu. N. Lyubimov, and A. I. Shilo for their help. There are 21 references, all Soviet.

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APPROVED FOR RELEASE: 06/14/2000

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KOZHEVNIKOV, V.Ya.

Introduced and projected forging and pressing equipment. Innovations in the design of NKM3 forging machines. Sbor. Novo-Kram.mashinostroi. zav. no.383-12 '59. (MIRA 17:1)

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KOZHEVNIKOV, Ye. F.

Raising industrialization standards and lowering costs of construction for the transportation industry; report by E.F. Kozhevnikov, Minister of Construction for the Transportation Industry at the session of the section of construction for the transportation industry of the All-Union Conference on Building. Transp. stroi. 8 no. 5:1-8 My '58. (MIRA 11:7)

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Toward new successes in the construction of transportation systems during the fifth year of the seven-year plat. Transp. stroi. 15 nc.121-4 Ja 163 (15Ra 18:2)

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KOZHEVNIKOV, Ye.M., veterinarnyy vrach po boleznyam ptits; GQLYSHKIN, I.M., veterinarnyy vrach po boleznyam ptits; DMITRIYEVA, P.M., veterinarnyy vrach po boleznyam ptits; BABKINA, A.A., veterinarnyy vrach po boleznyam ptits; TAYTLER, Ya.N., veterinarnyy vrach; TACHANOV, A.T., veterinarnyy fel'dsher

Eliminating pasteurellosis in poultry. Veterinariia 42 no.8:8-10 Ag ¹65. (MIRA 18:11)

1. Voronezhskaya oblastnaya veterinarnaya laboratoriya (for Khozhevnikov, Golyshkin, Dmitriyeva, Babkina). 2. Sovkhoz "Buda-Koshelevskiy" Gomel'skoy oblasti (for Taytler, Tachanov).

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| USSR / Zooy Abs Jour Author Inst Title Orig Pub Abstract | carasitology - Mites and Insects as Disease Vectors. G-3 Ref Zhur - Biol., No 18, 1958, No. 81778 Kozhevnikov, Yu. A. Molotov Med. Inst. Epidermomembrane Method in Experiments with Fleas Tr. Molotovsk. med. in-ta, 1957, No 26, 211-216 So as not to have to pick each flea by pincers when they are removed from insectaria, an ordinary glass funnel was used which was submerged to the edge of the insectarium fall down into the fluenel and accumulate in its tube, which had been proviously corked at the end. With the same purpose in view a sieve in tubular form was used for purpose in view a sieve in tubul | |
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| Card 1/3 | had been provided, the intubular form was used for purpose in view a sieve in tubular form was used for removing fleas from test tubes with sand, the tube teing fastened down with a fine metallic net. In examining live fleas microscopically, the author used a homemode 20 | |
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USSR / Zooparasitology - Mites and Insects as Disease Vectors. G-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, No. 81778

chamber consisting of a piece of glass tube pasted onto a glass plate; fleas within this chamber were fixed by a cellophane membrane: Attachments are suggested in the form of rubber rings for fastening a glass tube, needed for feeding the fleas, to the Pshenichnov apparatus or to the animal (in the latter case the floas were fed by a melnichny (?) gas). The skins of mice used as epidermomembranes should be storilized by chloroform vapors for 1-2 days. Through epidermomembranes Xenopsylla choopis woro successfully infocted by a rickettsia of spotted and rat typhus. By this method it was ostablished that the infective dose has an effect on the duration of the incubational process in fleas, but does not reflect on the intensity and accumulation of rickettsia in their bodios. The great effect of temperature at which the insects woro kopt was noted: at 31-32° rickettsia in fleas

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CHERNOGOROV, I.A., prof.; KOZLOVSKAYA, I.A., kand.med.nauk; KOZHEVNIKOV, Yu.A.

> Hffect or reserpine on hypertension of the pulmonary artery. Terap.arkh. 32 no.9:15-19 '60. (MIRA 14:1)

1. Iz kafedry vnutrennikh bolezney (zav. - prof. I.A. Chernogorov) Moskovskogo meditsinskogo stomatologicheskogo instituta. (RESERPINE) (FUIMONARY ARTERY-DISEASES) (HYPERTENSION)

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KOZHEVNIKOV, S.A.

Pathogenesis of arrhythmia. Pat. fiziol. 1 eksp. terap. 8 no.4:60-61 J1-Ag '64. (MTRA 18:2)

1. Kardiologicheskoye otdeleniye (zav.- prof. I.A. Chernogorov)
Instituta terapii (dir. - deystvitel'nyy chlen AMN SSSR prof.
A.L. Myasnikov) AMN SSSR, Moskva.

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| AUTHOR: TITLE: PERIODICAL: | KOZHEVNIKOV,YU.N. At the Swediah Metallurgists. (U metallurgov Shvetsli, Russian) Metallurg, 1957, Vol 25, Nr 4, pp 42-44 (U.S.S.R.) Received: 5 / 1957 Reviewed: 7 / 1957 |
|----------------------------------|---|
| ABSTRACT: | Steel Productions The Siemens Martin steel production of Sweden re- mained on the same level as in previous years owing to the shortage of own fuel; the output of electro- and converter steel was, however, raised considerably. In 1955 26% more basic and 11% more acidous Martin steel in relation to the total production were melted. Alloyed and not alloyed steels of different brands are produced in the acidous Martin furnaces, among them also steel for ballbearings. The opinion prevails that for the latter the best quality has to be taken from the acidous furnace. In some works acidous steel is blown through with oxygen. Ball-bearing steel is produced by a reduced silicon method and is finally neutralized with aluminum. This promotes plasti- city. In one plant half the nitrogen quantity obtained in the case of Bessemer steel is produced by blowing horizontally through the con- verter during half of the time. The production of steel in electric are furnaces and induction electric furnaces is widely in use. The bottom of the furnace consists of non-magnetizable steel for the purpose of a later use of the electromagnetic mixing device. In Sweden the delivery of converter metal for orude sheet iron and rails is forbidden although a |
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At the Swedish Metallurgists.

high-quality steel with a low content of nitrogen can be produced in Thomas converters. The conviction, however, prevails that converter steel blown through with oxygan is by no means inferior to Martin steel, but the necessary tests have not yet been carried out. In some plants special pressed thermit packets are pushed into the block moulds in order to heat the upper part of the blocks. They form a sort of a feed head and increase the output. According to its principle the Electromagnetic Trough Stirring: electromagnatic mixer is analogous to a nonsynchronic motor. An aro stator is installed under the furnace and fixed to the bottom part of the shell to mix the trough which acts as a rotor. The winding of the mixer acts in a manner similar to that of the stator. The magnetic field produced during passage of the current through this part of the furnace causes currents by induction in the trough which move the metal in rising and falling flows. Low frequency currents are used in order to avoid greater losses by vortex flows. Control of the plant is easily arranged by means of press buttons. Plant for Continuous Steel Casting: A plant that produces rolled sheet iron and tubes of stainless steel is arranged according to the American Rossii-Junghans type. Square semifinished steel is cast of stain- and carbon-less steel, round bar steel of 180 mm for pressed

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At the Swedish Metallurgists.

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tubes and sheet bars of 330×55 mm for sheet iron and cold rolling bands. The surface quality of the billets and sheet bars of the carbon steel were satisfactory, that of the stainless steel a little inferior, so that the semifinished steel for tubes had to be ground. Structure was mostly good. The plant which is of light construction, is built against the front wall of the steel smelting plant, partly above and partly below the ground level. Casting is carried out from a platform 18 m above the ground, were the casting vessel, which is of the tea-pot type, is mounted without a stopper rod. An intermediate device is used for casting which directs the metal into a fully cast copper crystallizer. It is cooled with water through an inner cavity and it is covered by a copper plate (20-25 mm thickness). The lubricant enters by means of a grove that is placed in between. The second cooling of the semifinished steel is carried out by means of sprayed water. The out-off casts fall into a basket, are turned on edge on a roller conveyor, and lifted on to the level of the working-floor level by means of a hoisting apparatus. ASSOCIATION: Not given PRESENTED BY: Library of Congress

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| | ACCESSION NR: AP4036578 S/0139/64/000/002/0173/017 |
| | AUTHOR: Kozhevnikov, Yu. P. |
| | TITLE: Solution of 4-contact method for measuring electrical resistivity of thin semiconducting films |
| | SOURCE: IVUZ. Fizika, no. 2, 1964, 173-175 |
| 1 | TOPIC TAGS: electric conductivity, semiconductor film, substrate, current strength bipolar coordinate |
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| | ABSTRACT: An expression has been derived for the electric conductivity σ of thin semiconductor films on nonconducting substrates, relating the conductivity to the potential V between contact points, current strength I, and film thickness t. The problem is treated as two-dimensional and Ohm's-law is used to determine in birolar |
| | semiconductor films on nonconducting substrates, relating the conductivity to the potential V between contact points, current strength I, and film thickness t. The problem is treated as two-dimensional and Ohm's-law is used to determine in binclar |
| | semiconductor films on nonconducting substrates, relating the conductivity to the potential V between contact points, current strength I, and film thickness t. The problem is treated as two-dimensional and Ohm's law is used to determine in bipolar coordinates, or $\int_{a=0}^{a=0} \frac{I}{4\pi \ell V} \ln \frac{[(2a-\ell_1)^2 + y_1^2]}{(\ell_1^2 + y_1^2)(\ell_2^2 + y_2^2)}$ |
| | semiconductor films on nonconducting substrates, relating the conductivity to the potential V between contact points, current strength I, and film thickness t. The problem is treated as two-dimensional and Ohm's law is used to determine in bipolar coordinates, or $\int_{a=0}^{a=0} \frac{I}{4\pi \ell V} \ln \frac{[(2a-\ell_1)^2 + y_1^2]}{(\ell_1^2 + y_1^2)(\ell_2^2 + y_2^2)}$ |
| I I T | semiconductor films on nonconducting substrates, relating the conductivity to the potential V between contact points, current strength I, and film thickness t. The problem is treated as two-dimensional and Ohm's-law is used to determine in bipolar coordinates, or $\int_{a=1}^{a=1} \frac{1}{4\pi/V} \ln \frac{[(2a-l_1)^2 + y_1^2][(2a-l_2)^2 + y_1^2]}{(l_1^2 + y_1^2)(l_2^2 + y_1^2)}$ |

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PETYUNIN, P.A.; KOZHEVNIKOV, Yu.V.

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Reactions of magnesylamines. Part 7: Synthesis and properties of aryl (alkyl) amides of anthranilic acid. Zhur. ob.khim. 30 no.6:2028-2030 Je '60. (MIRA 13:6)

1. Permskiy farmatsevticheskiy institut. (Anthranilic acid)

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PETYUNIN, P.A.; KOZHEVNIKOV, Yu.V.

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Chemistry of heterocyclic compounds. Part 33: Synthesis of quinazolone compounds based on aryl amides of anthranilic acid. Zhur.ob.khim. 30 no.7:2352-2357 Jl '60. (MIRA 13:7)

1. Permskiy farmatsevticheskiy institut. (Quinazolinone) (Anthranilic acid)

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PETYUNIN, P.A.; KOZHEVNIKOV, Yu.V.

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Reactions of magnesyl amines. Fart 8: Synthesis and properties of aryl amides of N-aryl (Alkyl)- and N-acyl-substituted anthranilic acids. Zhur.ob.khim. 30 no.8:2453-2457 Ag '60. (MIRA 13:8)

1. Permskiy farmatsevticheskiy institut. (Anthranilic acid)

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KOZHEVNIKOV, Yu. V.

Cand Pharm Sci - (diss) "Substituted amides of anthranilic acid and their transformations into quinazoline compounds." Moscow, 1961. 11 pp; (Ministry of Public Health RSFSR, First Moscow Order of Lenin Med Inst imeni I. M. Sechenov); 250 copies; price not given; (KL, 7-61 sup, 263)

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PETYUNIN, P.A.; KOZHEVNIKOV, Yu.V.

Heterocycles. Part 35: Use of polyphosphoric acid for the synthesis of quinazolone compounds. Zhur. ob. khim. 34 no. 3:854-856 Mr '64. (MIRA 17:6)

1. Permskiy farmatsevticheskiy institut i Khar'kovskiy farmatsevticheskiy institut.

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known functions of time: X₁₆ are the specified random values; $A_{1k} \cdot B_{1k} \cdot R_{1} \cdot F_{1}$ are the known random functions of time. The (1, 1) case happens when the actual values of $A_{1k} \cdot B_{1k}$, etc., are not measured but rather guessed at from a probabilistic (mathematical expectations, dispersions, etc.) model. In such cases, the system can be optimized only "on the average." The initial stochastic equations are transformed in such a way that the problem is reduced to synthesizing an optimal control for an auxiliary determinate system which probabilistically simulates the initial system. The solution of the above problem is obtained for linear systems and also for systems reducible to linear with respect to their centered random functions. Orig. art, has: 63 formulas.

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