

L 1560-66

ACCESSION NR: AP5018634

an asymmetric curve whose intensity decreases more slowly on the higher-frequency side of the peak. The Stokes shift depends on the temperature. The change of the half-width of the phonon band when $kT \gg \hbar\omega$ varies as $T^{1/2}$. It is found that the phononless line has the form of a quasi-Lorentz curve with the half-width depending on the temperature. The intensity of the phononless line decreases with temperature exponentially in certain temperature ranges. At high temperatures the shift of the phononless line is proportional to the temperature. The obtained results can be extended to the case of impurity centers with internal degrees of freedom (molecular impurity) or to systems in which local oscillations occur. Analogous results can be obtained for the emission spectrum, although it must be noted that in general the emission spectrum will not be a mirror image of the absorption spectrum; the deviation from mirror symmetry decreases with decreasing anharmonicity constants. Orig. art. has: 21 formulas.

ASSOCIATION: Instytut fizyki AN URSR [Institut fiziki AN UkrSSR]
(Physics Institute, AN UkrSSR)

Card 2/3

L 1560-66

ACCESSION NR: AP5018634

SUBMITTED: 26Aug64

ENCL: 00

SUB CODE: OP, 55

NR REF SOV: 017

OTHER: 006

Card 3/3



LQ1254-66 EWT(1)/T IJP(c) GG

ACCESSION NR: AP5020807

UR/0048/65/029/008/1394/1398

AUTHOR: ^{44,55} Lubchenko, A. F.; ^{44,55} Pavlik, B. M.

45
42

TITLE: Effect of anharmonism of the atomic vibrations in a solid on the spectra of absorption and emission of light by impurity centers Report, 13th Conference on Luminescence held in Khar'kov 25 June to 1 July 1964

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 8, 1965, 1394-1398

TOPIC TAGS: absorption spectrum, luminescence spectrum, phonon spectrum, mossbauer effect, impurity center, nonlinear vibration, scie. citation

ABSTRACT: The authors calculate the effect of nonlinear lattice vibrations on the absorption and emission of light by impurity centers, taking account of the non-linearity in both the initial and the final electron state. The calculation is performed by the Green's function method of N.N. Bogolyubov and S.V. Tyablikov (Dokl. AN SSSR, 126, 53, 1959), and the exposition leans heavily on previous publications of one or both of the present authors (Phys. stat. sol., 6, 319, 1964; 7, 29, 1964; Izv. AN SSSR. Ser. fiz., 18, 718, 1954; Ukr. fiz. zh., 1, 120, 265, 285, 1956). The anharmonicity is taken into account by including in the Hamiltonian terms containing products of three phonon creation and destruction operators.

Card 1/2

L01254-66

ACCESSION NR: AP5020807

3

The phonon part of the absorption spectrum is shown to be asymmetric, decreasing less rapidly on the high frequency side of the maximum than on the low frequency side. At sufficiently high temperatures the width of the phonon band is proportional to the square root of the temperature. The phonon-free line has a quasi-Lorentz shape near the maximum and is asymmetric in the wings, falling off less rapidly in the high frequency wing than in the low frequency wing. The width is proportional to the square of the temperature at high temperatures and is of the order of several reciprocal centimeters. The intensity of the phonon-free line decreases exponentially with increasing temperature, and its position depends on temperature. Impurity centers with internal degrees of freedom are discussed. For the higher overtones of the intramolecular vibration the corresponding phonon-free lines increase in width and become closer together; this circumstance can be employed for an experimental determination of the "width" of the corresponding vibrational level. Orig. art. has: 21 formulas.

ASSOCIATION: Institut fiziki Akademii nauk UkrSSR (Physics Institute, Academy of Sciences, UkrSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: 0P, 8S

NO REF SOV: 017

OTHER: 009

Card 2/2 *ny*

L 36261-66 T IJP(c)

ACC NR: AP6018337

SOURCE CODE: GE/0030/66/013/001/0037/0044

OK

38
B

AUTHOR: Lubchenko, A. F.

ORG: Institute of Physics of the Academy of Sciences of the Ukrainian SSR, Kiev

TITLE: Effect of anharmonicity on the optical activity of impurity centers in solids

SOURCE: Physica status solidi, v. 13, no. 1, 1966, 37-44

TOPIC TAGS: impurity center, absorption coefficient, Green function, ~~anharmonicity, host~~ crystal

ABSTRACT: The ^Poptical activity in the impurity-absorption region of solids, taking anharmonicity into account, has been investigated by the Green function method. The host crystal containing the impurity centers is assumed to be optically inactive. It has been shown that the dependence of the optical rotation on the frequency of the exciting

Card 1/2

L 36261-66

ACC NR: AP6018337

light is the same as that of the refractive index of the impurity centers, and the frequency dependence of the circular dichroism is the same as that of the absorption coefficient. Orig. art. has: 1 figure and 14 formulas. [Based on author's abstract] [NT]

SUB CODE: 20/ SUBM DATE: 13Sep65/ ORIG REF: 001/ OTH REF: 003

nd
Card

2/2

L 43934-66 EWT(1)/T IJP(c)

ACC NR: AP6028709

SOURCE CODE: UR/0185/66/011/008/0845/0856

AUTHOR: Lubchenko, A. F.; Dudkin, S. I. 50B

ORG: Institute of Physics, AN URSR, ... Kiev (Instytut fizyky AN URSR)

TITLE: Phototransitions in impurity centers in a weak electron-phonon coupling

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 8, 1966, 845-856

TOPIC TAGS: optic transition, phonon spectrum, absorption spectrum, light dispersion

ABSTRACT: Calculations were made of the absorption spectra and curves of light dispersion by the impurity centers of a solid body in which the distances between the electronic levels are of the order of the maximum phonon energy in a weak electron-phonon coupling. The method of two-particle Green functions was used in the calculations. It is shown that the absorption spectrum and the corresponding dispersion curve consist of phonon and non-phonon parts. The intensity of the non-phonon line and the refraction index decrease when the temperature increases. The non-phonon line and the corresponding dispersion curve have a shape similar to that of the dispersion and absorption curves of a classical oscillator. They vary when the temperature changes.

Card 1/2

L 43934-66

ACC NR: AP6028709

When the temperature increases, the half-width of the non-phonon line increases while intensity decreases. The phonon part of the absorption spectrum is a sum of quasi-Lorentz curves whose half-widths are determined by the electron-phonon interaction and by the anharmonicity. At high temperatures the half-width of each curve increases proportionally to the temperature. The intensity of these lines also simultaneously increases. The intensity of the phonon part of the absorption spectrum also depends on the energy structure of the impurity centers: at the same magnitude of electron-phonon interaction the intensity of the phonon part will be stronger for those impurity centers with smaller distances between the electronic levels. When the distances are greater, the intensity of the phonon part decreases. Orig. art. has: 26 formulas. [JA]

SUB CODE: 20/ SUBM DATE: 01Nov65/ ORIG REF: 007/ OTH REF: 004
ATD PRESS: 506/

Card 2/2 hs

ACC NR: AP7001977

SOURCE CODE: GE/0030/66/018/002/0853/0862

AUTHOR: Lubchenko, A. F.; Dudkin, S. I.

ORG: Institute of Physics, Academy of Sciences of the Ukrainian SSR, Kiev

TITLE: Effect of concentration on light absorption and dispersion by impurity centers in the case of weak electron photon coupling

SOURCE: Physica status solidi, v. 18, no. 2, 1966, 853-862

TOPIC TAGS: absorption spectrum, light dispersion, impurity center, Green function

ABSTRACT: An investigation has been made of the dependence of absorption spectra and light dispersion caused by impurity centers in a solid at a weak electron-phonon coupling on the concentration of impurity centers, using the Green's function method. It is shown that at low concentrations of impurity centers, the halfwidth of the zero-phonon line and its dispersion curve, as well as their position in the spectrum, vary linearly with the concentration. Orig. art. has: 23 formulas. [Authors' abstract] [NT]

SUB CODE: 20/SUBM DATE: 04Jul66/ORIG REF: 006/OTH REF: 009/
Card 1/1

L 14452-66 EWP(f)/EPF(n)-2/T-2/ETC(m)-6 WW

ACC NR: AP6002952

(A)

SOURCE CODE: UR/0286/65/000/024/0124/0124

INVENTOR: Strunge, B. N.; Belostotskiy, A. M.; Pesotskiy, V. Yu.; Lubchenko, M. I.; Turchak, Ye. V.; Epshteyn, A. V.

56
B

ORG: none

23,4455

TITLE: A device for improving the pickup of a diesel generator with gas turbine supercharging. Class 46, No. 177227 [announced by the Kharkov Plant of Transportational Machine Building im. V. A. Malyshev (Khar'kovskiy zavod transportnogo mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 124

TOPIC TAGS: generator, diesel engine, gas turbine

ABSTRACT: This Author's Certificate introduces a device for improving the pickup of a diesel generator with gas turbine supercharging. The device contains a mechanism for supplying additional air to the diesel cylinders from stand-by tanks. Operational reliability is improved by automatic valves mounted on each cylinder. The supply mechanism is made in the form of a valve with a controller which is operated by pulses from the generator.

Card 1/2

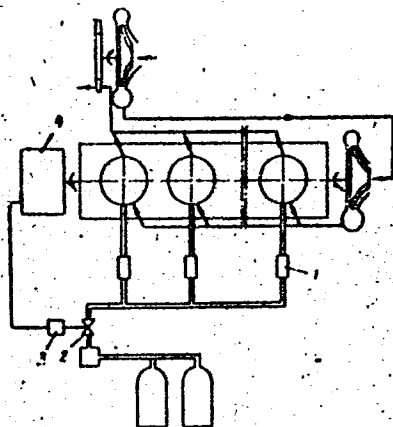
UDC: 621.436.052-443.2

2

L 14452-66

ACC NR: AP6002952

0



1 - automatic valve; 2 - gate valve; 3 - controller; 4 - generator.

SUB CODE: 21/
BVK
Card 2/2

SUBM DATE: 01Aug64

LUBCHIK, M

A

N/5

741.762

.L9

Apparaty avtomaticheskogo upravlniy ya elektricheskimi mashinami
(Apparatus Having Electric Automatic Controls) Uchebnyye tablitsy.
Leningrad, Gosenergoizdat, 1952.
19 plates in portfolio.

LUBCZYNSKA-KOWALSKA, Wanda

A febrile course of endocarditis lenta. Polski tygod. lek. 16 no.32:
1235-1236 7 Ag '61.

1. Z I Kliniki Chorob Wewnetrznych A.M. we Wroclawiu; kierownik: prof.
dr Z. Czezowska.

(ENDOCARDITIS SUBACUTE BACTERIA case report)

LUBCZYNSKA-KOWALSKA, Wanda

A case of associated allergic bronchial asthma with ulcerative colitis and ankylosing spondylitis. Pol. tyg. lek. 17 no.27:1074-1075 2 JI '62.

1. Z I Kliniki Chorob Wewnętrznych AM we Wrocławiu; kierownik: prof. dr Zofia Czezowska.

(ASTHMA) (COLITIS ULCERATIVE) (SPONDYLITIS ANKYLOSING)

LUBCZYNSKA- KOWALSKA, Wanda

Effect of bathing in an alkaline carbonated mineral water from the "Mieszko" spring in Szczawna-spa on pseudotuberculosis in guinea pigs. Gruzlica 31 no.12:1239-1242 D'63.

L. 2 I Kliniki Chorob Wewnetrznych AM we Wroclawiu. Kierownik: prof. dr.med. A.Kleczenski.

*

LUBCZYNSKA-KOWALSKA, Wanda

Protective effect on anaphylactic shock in guinea pigs of mineral water from the spring "Mieszko" in Szczawno spa. Pol. arch. med. wewn. 32 no.10:1257-1260 '62.

1. Z I Kliniki Chorob Wewnętrznych AM we Wrocławiu Kierownik: prof. dr Z. Czezowska.

(ANAPHYLAXIS)

(MINERAL WATER)

POLAND

KLECZYNSKI, A., JUZWIAK, I., LUDCZYNSKA-KOWALSKA, W., and SIENNICKI, W., I Internal Diseases Clinic, School of Medicine (I Klinika Chorob Wewnetrznych AM), Wroclaw. Prof. Dr. A. Kleczynski, Head; Department of Hygiene, School of Medicine (Katedra Higieny AM), Wroclaw. Dr. S. Przylecki, Acting Head.

"Investigation of the Role of Molds in Allergic Respiratory Tract Diseases in Textile Workers"

Wroclaw, Postepy Higieny i Medycyny Doswiadczalnej, Vol 20, No 2, 1966, pp 286-294.

Abstract: The article reports a study of the incidence of respiratory diseases in textile workers. Disease symptoms and the presence of various mold organisms in the individual textile plant departments are described. Preliminary investigations show a degree of coincidence between the incidence of allergic and other symptoms in the respiratory tract and the amount of dust in the atmosphere as well as the mold flora content. Contains 9 Tables and 25 references (14 Polish, 10 Western and 1 German-language). Received May 1965.

TRZANKOWSKI, Jerzy; LUBCZYNSKI, Andrzej

Idiopathic familial hypercholesterolemia with xanthomatosis.
Pol. arch. med. wewn. 35 no.7:1043-1046 '65.

1. Z Oddziału Chorob Wewnętrznych woj. Szpitala Ministerstwa
Spraw Wewnętrznych we Wrocławiu (Ordynator: lek. J. Trzankowski).

LUBE, E.L.; KHEYKER, D.M.

Automatic X-ray diffractometer with discrete recording and programmed control for the study of polycrystalline samples. Kristallografiia 8 no.3:440-445 My-Je '63. (MIRA 16:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy slyudyanoy promyshlennosti Gosstroya SSSR.

KHEYKER, D.M.; VOLKOV, O.S.; ZEVIN, L.S.; LUBE, E.L.

Diffractometric equipment for phase analysis. Trudy NIAsbesttsementa
no.16:25-42 '63. (MIRA 16:8)

(X-ray diffraction examination)

LUBE, E.L.; KSHNYAKINA, A.N.; KHEYKER, D.M.

Design of the control program and initial processing of experimental data of an automatic diffractometer by a multipurpose computer. Kristallografiia 10 no.1:99-104 Ja-F '65.

(MIRA 18:3)

1. Nauchno-issledovatel'skiy Fiziko-khimicheskiy institut imeni Karpova, Moskva.

L 07148-67

ACC NR: AP6035875

SOURCE CODE: UR/0413/66/000/020/0097/0097

AUTHOR: Lube, V. M.; Safonov, Yu. D.; Yakimenko, L. I.; Devochkin, I. V.; Donets, A. M.

24
B

ORG: none

TITLE: Device for studying cardiac activity. ²² Class 30, no. 187215

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 97

TOPIC TAGS: human physiology, cardiovascular system, bioinstrumentation

ABSTRACT: An Author Certificate has been issued for a device for studying cardiac activity consisting of an ultrasonic generator, a piezoelectric sensor with con-

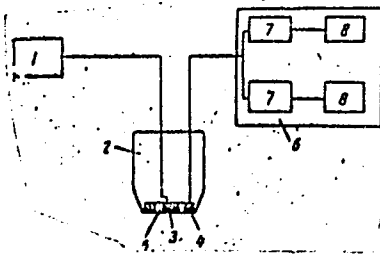


Fig. 1. A device for studying cardiac activity

- 1 - Ultrasonic generator; 2 - piezoelectric sensor;
- 3 - transmitting unit; 4 - receiving unit;
- 5 - annular gap; 6 - ultrasonic receiver;
- 7 - filters; 8 - recorders.

Card 1/2

UDC: 615.47:612.171.1

L 07448-67

ACC NR: AP6035875

centric transmitting and receiving units, and an ultrasonic receiver with a selection system and recorder (see Fig. 1). The selection system includes two filters at different frequencies for recording the character of cardiac muscle and heart valve movements. To increase sensitivity the concentric receiving and transmitting elements of the piezoelectric sensor are separated by an annular gap. Orig. art. has: 1 figure.

SUB CODE: 06, 14/ SUBM DATE: 15Apr65/ ATD PRESS: 5104

me
Card 2/2

POLAND

GORSKI, Ludwik, dr.; LUBECKI, Andrzej, mgr.

Institute of Nuclear Techniques, Academy of Mining
and Metallurgy, (Instytut Techniki Jadrowej Akademii
Gorniczo-Hutniczej), Krakow - (for both).

Warsaw, Chemia analityczna, No 2, March-April 1965,
pp 191-197.

"A rapid method of tungsten determination in steels
by measuring backscattering of beta particles."

... THE VARIOUS WAVELENGTHS THAT THIS OPER-
ation can be conducted only by means of optical in-
struments, and they describe the general principles

... OF THE TYPE
designed by the standard wave length of 0.8 μ and
for temperature range of 750 to 1300°C. A monthly
total to ...

538.821:821.383
✓ 6213
Labecki K., Machalski A. Photoelectric Monochromatic Pyrometer. ✓
"Pirometr fotoelektryczny monochromatyczny". *Pomiary-Automa-
tyka-Kontrola*. No. 1, 1959, pp. 2-5, 11 figs.

The action of the photoelectric pyrometer devised is based on a measurement of the strength of radiation emitted by a hot metal surface and falling on the objective of an optical system, then, upon agglomeration, on the diaphragm lying behind it. A disc with apertures is driven by a synchronic motor and, rotating behind the slit of the diaphragm, produces periodical interruptions of the light beam falling on it. This gives an alternating tension at the cathode of the photoelectric cell, the cycle of which depends on the strength of radiation — i.e. the temperature, and the frequency — on the angular velocity, and on the number of apertures in the disc. The cathode current is increased by an electronic alternating current amplifier, then rectified and directed to an electromagnetic moving-coil instrument or grapher. As compared with other types of pyrometers, the device presented by the authors has the following advantages: 1. It indicates the temperature almost immediately; 2. It requires no manipulation once installed; 3. It makes it possible to record the temperature; 4. It has a relatively simple electronic system; 5. Its mechanical construction is durable and resistant to detrimental effects.

2

1/1
23/2
96

BALASSY, Janosne, dr.; LUBECK, Gyorgyne

Should free shelves be established in trade-union libraries?
Remarks. Munka 12 no.8:24-25 Ag '62.

1. Koho- es Gepipari Miniszterium szakszervezeti könyvtarosa.
(for Balassy). 2. Pres- es Kovacsoltarugyar szakszervezeti
könyvtarosa. (for Lubeck).

DZIUNIKOWSKI, Bohdan; LUBECKI, Andrzej

Application of back-scattering of β - particles for determination
of heavy elements in samples of variable chemical composition.
Nukleonika 8 no.10:687-694. '63.

1. Instytut Techniki Jadrowej, Akademia Gorniczo-Hutnicza, Krakow.

LUBECKI, Kazimierz, inz.; DREWNIAK, Roman, inz.

The electronic strip chart recording potentiometer of the KET-250 type. Pomiar 7 no.10:401-402 0 '61.

1. Zakład Produkcji Doswiadczalnej, Instytut Metalurgii Zelaza, Gliwice.

(Recording instruments)

DREWNIAK, R., inz.; LUBECKI, K., mgr inz.; LACZNY, W., mgr inz.

Electronic charging scales. Biul inf inst metal zel no.2/3;
15-17 '63.

1. Institute of Iron Metallurgy, Gliwice.

LUBECKI, L.

"Control and Analysis of Production Costs During the Process of Building,"
P. 209. (PRZEGLAD BUDOWLANY, Vol. 26, No. 7, July 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

VDOVIN, L.A.; LUBEGIN, A.S.

Drilling of holes in glass. Energetik. 13 no.2:16 F '65.

(MIRA 18:6)

LUBEGINA, Z.P., starshiy nauchnyy sotrudnik

Analysis of the causes of ineffective surgical treatment of chronic suppurative osteomyelitis in invalids of the Patriotic War. Ortop. travm.i protez. 20 no.9:56-61 S '59. (MIRA 13:2)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (direktor - chlen-korrespondent AMN SSSR prof. F.R. Bogdanov).
(OSTROMYELITIS, surg.)

LUBEGINA, Z.P., kand.med.nauk

Use of a Filatov flap to fill cavities in chronic osteomyelitis.
Ortop.ed.travm.i protez. 21 no.3:3-7 Mr '60. (MIRA 14:3)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta travmatologii
i ortopedii (ispolnyayushchiy obyazannosti direktora - prof. T.S.
Grigor'yeva).

(OSTEOMYELITIS)

(SKIN GRAFTING)

LUBEGINA, Z.P., kand.meditsinskikh nauk

Bone surgery by A.K.Tychinkina's method in treating wounds of the lower extremities which are slow to heal. Ortop.travm.i protez. 21 no.4:80-81 Ap '60. (MIRA 13:9)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - Z.P. Lubegina). (BONE GRAFTING)

LUBEGINA, Z.P.

Treatment of non-healing ulcers of the lower extremities with skin transplantation. Vest.khir. no.3:81-84 '62. (MIRA 15:3)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - kand.med.nauk Z.P. Lubegina).
(EXTREMITIES, LOWER--ULCERS)
(SKIN--TRANSPLANTATION)

LUBEGINA, Z.P., kand. med. nauk; EYDEL'SHTEYN, B.M., kand. med. nauk

Bone chondromas. Ortop., travm. i protez. no.8:35-38 '62.

(MIRA 17:10)

1. Iz Sverdlovskogo instituta travmatologii i ortopedii (dir.-
kand. med. nauk Z.P. Lubegina).

LUBEGINA, Z.P., kand.med.nauk; SHADIN, M.Ya., kand.med.nauk; GUDUSHAURI,
O.N., kand.med.nauk

The 11th Congress of Orthopedists of the German Democratic
Republic. Ortop., travm. i protez. 24 no.4:92-94 Ap'63.
(MIRA 16:8)
(GERMANY, EAST--ORTHOPEdia--CONGRESSES)

LUBEGINA, Zoya Petrovna; SIVASH, K.M., red.

[Prevention and treatment of deformation of the feet following poliomyelitis] Profilaktika i lechenie deformatsii stop posle poliomielita. Moskva, Medgiz, 1963. 180 p.
(MIRA 17:12)

RAINS, A.; REIZIN, V.; EL'VIKH, P.[Elvihs, P.,deceased]; LUBEI, L.,
red.

[The Latvian Rezekne regiment in the air...; Latvian pilots
in the Great Patriotic War] V vozdukhe Latyshskii Rezhitski...;
latyshskie letchiki v Velikoi Otechestvennoi voine. Riga,
Izd-vo "Liesma," 1965. 267 p. (MIRA 18:6)

LUBEK, JANUSZ

Category : POLAND/Magnetism - General Problems

F-1

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4006

Author : Lubek, Janusz; Pudelewecz, Aleksandra
Title : Magnetic Sound Recording

Orig Pub : Wisdom. telekomun., 1954, 23, No 4, 74-81

Abstract : No abstract

Card : 1/1

LUBEK, J.

LUBEK, J. Stereophony. p. 200.

Vol. 24, No. 9, Sept. 1955.
WIADOMOSCI TELEKOMUNIKACYJNE.
TECHNOLOGY
Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

LUBEK, JANUSZ

Miernictwo radiotechniczna. (Wyd. 1.) Warszawa, Wydawn. Komunikacyjne, 1956

P. 243 (Measuring in radiotechnology. 1st ed. illus., diags., graphs)

SO: Monthly index of East European Accessions (AEEI) Vol. 6, No. 11, November 1957

LURELSKA, Felicja; WYGODZKA-LIPSKA, Jadwiga

Osseous changes in leukemia in children. *Pediat.polska* 30 no.1:39-46 Jan 55.

1. Z I Kliniki Chorob Dziecięcych Akademii Medycznej w Łodzi
Kierownik: prof dr med. St.Popowski. Z zakładu Radiologii Akademii
Medycznej w Łodzi Kierownik: prof. dr med. Wl.Trzetrzewinski.
Adres: Łódź, Armii Czerwonej 15.

(LEUKEMIA, in infant and child,
bone x-ray changes in)
(BONES, in various diseases,
leukemia, x-ray changes in child)

LUBELSKA F.

EXCERPTA MEDICA Sec.18 Vol.1/4 Cardiovascular Apr 57

1016. LUBELSKA F. I. Klin. Chor. Dziec. A. M., Łódź. Próba Landisa w chorobie reumatycznej u dzieci *Landis' test in rheumatic fever in children* *Pediat. pol.* 1956, 31/11 (1205—1220) Tables 6

Employing Landis' indirect method the author examined the degree of injury of the vascular barrier in the acute phases of rheumatic fever in 55 children. Six healthy children were used as a control group for comparison. On the basis of analysis of the results obtained the author came to the following conclusions: Landis' test is sufficient proof of pathological permeability of capillaries in the active phase of rheumatic fever in children with the exception of 'pure' chorea where the reaction is negative. Disturbance in the permeability of the wall of capillaries increases in such a way that no doubt is left to the course of the first rheumatic attack; during the first days of the disease Landis' test may still be negative. The degree of permeability of the walls of the capillaries to protein is the smallest in the purely articular form, and much greater in the myocardial forms. The degree of permeability of the wall of capillaries is undoubtedly greater in the next rheumatic attack (except chorea). The degree of protein loss through the wall of the capillaries decreases in a parallel manner to the clinical improvement. Therefore Landis' test is of importance in the evaluation of dynamics of the pathological process and to a certain degree in the prognosis. In cases treated by means of ACTH the return to normal permeability of capillaries takes place sooner than in cases treated by means of salicylic compounds and is generally in advance of the clinical improvement. Recurrences of rheumatic fever may sometimes lead to persisting disturbance of physiological permeability of capillary vessels. The state of permeability of the capillaries during the quiet phase after the first and the next rheumatic attack requires further studies on a larger scale. (XVIII, 7)

HANKIEWICZ, Maria; HEWELKE-GRABOWSKA, Jadwiga; LUBELSKA, Felicja

Observation of children after splenectomy for congenital hemolytic anemia and spontaneous thrombopenia. *Pediat. polska* 33 no.2:129-144 Feb 58.

1. Z Kliniki Chirurgii Dziecięcej A.M. w Łodzi Kierownik: prof. dr med. A. Maciejewski i z I Kliniki Pediatricznej A.M. w Łodzi Kierownik: doc dr. med. E. Wilkoszewski. Adres: Łódź, ul. Armii Czerwonej 15.

(SPLEEN, surg.

excis, in congen. hemolytic anemia and Werlhof's dis
statist. (pol))

(PURPURA, THROMBOPENIC, in inf. & child

surg., splenectomy in Werlhof's dis. statist (Pol))

(ANEMIA, HEMOLYTIC, in inf. & child.

congen., surg., splenectomy & statist. (Pol))

LUBELSKI, Adam

Data on the significance of colposcopy in cases of cancer of the cervix uteri. Gin. polska 25 no.1:15-20 Ja-Mr '54.

1. Klinika Poloznicza i Chorob Kobietych Akademii Medycznej w Krakowie. Kierownik: prof. dr St.Schwarz.
(CERVIX, UTERINE, neoplasms,
*diag., colposcopy)

LUBELSKI, Karol

Graphic transformation of the star of resistances into a complete polygon and vice versa. Przegl elektrotechn 38 no.2:63-65 '62.

LUBELSKI, Karol

A graphic and analytical method of determining the equivalent impedance of a parallel circuit. Przegl elektrotechn 40 no.7: 320-323 J1 '64.

1. Department of General Electrical Engineering B, Technical University of Silesia, Gliwice.

Country : RUSSIA II
Jab. no. : Chemical Technology. Chemical Products (Part 3).
Abn. Jour. : Ref. Mon. Ind. 1958, No 7, 2136
Author : Luben, S. H.
Instit. : -
Title : Improvement in the Technique of Seasonal
Tobacco Fermentation
Orig. Pub. : Rev. ind. aliment. prol. vegetale, 1958, No 3,
6-10
Abstract : No abstract.

Date: 1/1

LUBELSKI, S.; SCHOGT, C. (Amsterdam)

Unpublished results on number theory. II. Composition theory of binary quadratic forms. Acta Arithmetica 7 no.1:9-17 '61.

1. Mathematisch Centrum, Amsterdam (for Schogt).

(Numbers, Theory of) (Forms, Quadratic)

MACIK, Ivo, Technicka spoluprace: M. Hampl, J. Lubena, J. Svab

Prevention of untoward reactions following the administration of
antitetanus serum. Rozhl. chir. 39 no.1:34-38 Ja '60

1. Vyzkumny ustav traumatologicky v Brne, reditel prof. MUDr.
Vl. Novak.

(ALLERGY exper)
(TETANUS immunol)
(IMMUNE SERUMS, eif. inj)

LUBENESCU, D.

Classification of Rocks Relative to Technical Standardization.
Revista Minelor (Mining Journal), #4:113:Apr 55

LUBENESCU, D., conf. ing.; TEICH, I., aspirant

Aspects of the development of the mining industry in Rumania during the 20 years since the liberation, in the light of Statistical data. Rev min 15 no.8:424-428 Ag '64.

LUBENESCU, D.

Soviet Methodology for the Determination of Quantitative and Qualitative
Ore Losses in Mining Operations. Revista Minelor (Mining Journal), #5:177: May 55

LUBENESCU, Dan

A rapid method of transposing geological data from photocopies on maps. Dari seama sed 49 pt.1:157-160 '61-'62 [publ. '64].

1. Submitted March 30, 1962.

LUBENESCU, T.; TEICH, I.

Methods of computing the indexes of labor productivity in the mining industry.
p. 487.

REVISTA MINELOR. (Ministerul Minelor, Ministerul Industriei Petrolului si
Chimiei, Directia Exploatarilor Miniere si Asociatia Stiintifica a Inginerilor
si Tehnicienilor din Romania) Bucuresti, Rumania. Vol. 10, no. 11, Nov. 1959

Monthly list of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960

Uncl.

✓ Gas-Pressure Blasts for Casting Amorphous Alloys
(Markov, G. A. Kaplunovskiy, I. I. Pavlov, and A. P.
Lebedev, Zhurnal Fizicheskoi Khimii, 1963, 37, 1, 1-4)
the first object is gas pressure...
in the form of a ball, the side of which contained a mixture

DUKHNETS, A.P., insh. (Bryansk)

D

Reducing the weight of freight car trucks. Zhel.dor.transp.
42 no.7:58-59 J1 '60. (MIRA 13:7)
(Railroads--Freight cars)

MININA, V.S.; USMANOV, Kh.U.; ISHMUKHAMEDOVA, M.S.; LUBENETS, A.T.

Effect of ionized radiations on polysaccharides. Khim. i fiz.-
khim. prirod. i sint. polim. no.1:53-60 '62 (MIRA 18:1)

1. Chlen-korrespondent AN UzSSR (for Usmanov).

LUBENETS, B. S.

Replacement of a defect of the femoral artery with a venous segment. Vest. khir. no.12:86 '61. (MIRA 15:2)

1. Iz Irkutskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - prof. Z. V. Bazilevskaya)

(FEMORAL ARTERY--SURGERY)
(VEINS--TRANSPLANTATION)

LUBENETS, B.S. (Irkutsk, Volzhskaya ul., d.17, kv.1)

Open dislocation of the foot with skeletization of the tibio-
fibular bones. Ortop. travm. i protez. 24 no.5:49-50 My '63.
(MIRA 17:9)

1. Iz Irkutskogo instituta travmatologii i ortopedii (dir.-
prof. Z.V. Bazilevskaya).

LUBENETS, B.S. (Irkutsk, Volzhskaya, ul.,d. 17, kv.1)

Preservation of the extremity in a crushing injury of the leg. Vest. khir.
91 no.11:121-122 N '63. (MIRA 17:12)

1. Iz Irkutskogo nauchno-issledovatel'skogo instituta travmatologii i
ortopedii (direktor - prof. Z.V.Bazilevskaya).

LUBENETS, G.K., inzhener.

Experience in the manufacture and installation of precast reinforced concrete construction elements. Stroi.prom. 32 no.10:2-6 0 '54.
(MIRA 7:11)

1. Treat Zaporozhstroy.
(Precast concrete construction)

LUBENETS, G.K., inzh.

Industrialization of industrial construction in the Donets Basin.
Prom. stroi. 37 no.6:15-21 Je '59. (MIRA 12:8)

1. Stalinskiy sovnarkhoz, Stalinskaya oblast'.
(Donets Basin--Elast furnaces) (Northern Donets-Donets Basin Canal)



^{K.}
LUBENETS, G., Geroy Sotsialisticheskogo Truda

Raise the construction of industrial buildings to the level of modern problems. Prom. stroi. i inzh. soor. 5 no.3:1-3 My-Je '63.
(MIRA 16:7)

1. Ministr stroitel'stva UkrSSR.
(Construction industry)
(Industrial building—Design and construction)

LUBENETS, G. S.

LUBENETS, G. S. "Experiment in Growing and Preserving Seeds of Vegetable Crops and Root Fodders in Sverdlovsk Oblast." Moscow Order Of Lenin Agricultural Academy imeni K. A. Timiryazev. Moscow, 1955. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN AGRICULTURAL SCIENCE).

Knizhnaya Letopis',
No. 27, July 2, 1955.

LUBENETS, G.S.; LARIONOVA, I.P.

Using solid domestic wastes as biological fuel. Nauch. trudy
AKKH no.24:63-68 '64 (MIRA 18:2)

SOV/137-58-7-14387

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 64 (USSR)

AUTHOR: Lubenets, I.A.

TITLE: Improving Open-hearth Furnace Design (Uluchsheniye konstruktsiy martenovskikh pechey)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 220-228

ABSTRACT: The following changes were made in 90-t open hearths (OH). The thickness of the division wall between slag pockets and checker chambers was increased from 1115 to 1380 mm with simultaneous removal of the chrome-magnesite interlayer; the tie-rod roofs of the checker chambers were replaced by semi-circular design; the slag-pocket and checker-chamber-roof skewbacks were raised, the slope of the rear wall was increased from 55° to 43° , the rigidity of the shell of the combustion space was increased, and 2 furnaces were rebuilt to take 180-t batches, hearth area being increased from 38 to 52 m^2 in one case, and to 45 m^2 in the other, the gas-checker volume being increased from 68.7 to 87 and 85 m^3 , and the air-checker volume from 90.5 to 114 and 110 m^3 , respectively. A

Card 1/2

SOV/137-58-7-14387

Improving Open-hearth Furnace Design

multiple type of division wall is used in the 185 and 370-t OH (middle of silica brick and faces of chromium-magnesite waste). Other design features are skewback-type burner arches in the uptakes, differences in skewback height between gas and air slag pockets, an increase (from 1200 to 1350 mm) in the rise of arch of the main roof, and an increase (from 6 to 15) in the number of suspensions in the center portion of the roof. The gas-port area was increased from 0.38 to 0.44-0.46 m², and the cross section of the dog house to 4.0x3.4 m in 185-t OH and 4.2x3.5 m in 370-t OH. The knuckle height was raised to 2000-2100 mm for single-batch, and to 2150-2250 mm for double-batch types. When 500-650 m³ blower air was blown into the end of the chamber, the temperature of the flame rose from 1870 to 1910°C and the speed of emission of the jet from 36-38 to 50-52 m/sec. The length of the flame was shortened. Injection of hot air increased the flame temperature to 1920°, and when the discharge rate of blast-furnace gas was reduced (from 6000 to 4000 m³/hr), to 1940°.

1. Open hearth furnaces--Design

N.I.

Card 2/2

KOROLEV, A.I.; BLINOV, S.T.; LUBENETS, I.A.; KOBURNEYEV, I.M.; TURUBINER, A.L.; VASIL'YEV, S.V.; CHERNENKO, M.A.; BELOV, I.V.; TELESOV, S.A.; MAZOV, V.F.; MEDVEDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.; TRUBETSKOV, K.M.; SHNEYEROV, Ya.A.; SLADKOSHTSEYEV, V.T.; PALANT, V.I.; KUROCHKIN, B.N.; ZHDANOV, A.M.; BELIKOV, K.N.; SABIYEV, M.F.; GARBUZ, G.A.; PODGORETSKIY, A.A.; AL'FEROV, K.S.; NOVOLODSKIY, P.I.; MORZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MALAKH, A.V.; VERKHOVTSSEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHOV, A.I.; BORODULIN, A.I.; VAYNSHTEYN, O.Ya.; ZHIGULIN, V.I.; DIKSHTEYN, Ye.I.; KLIMASENKO, L.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.; ZHIDETSKIY, D.P.; MIKHAYLETS, N.S.; SLEPKANEV, P.N.; ZAVODCHIKOV, N.G.; GUDEMCHUK, V.A.; NAZAROV, P.M.; SAVOS'KIN, M.Ye.; NIKOLAYEV, A.S.

Reports (brief annotations). Bial. TSNIICM no.18/19:36-39 '57.

(MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshteyn). 2. Kuznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Borodulin, Klimasenka). 3. Chelyabinskiy metallurgicheskiy zavod (for Lubenets, Vaynshteyn). 4. Zavod im. Dzerzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Turubiner, Mazov, Podgoretskiy, Marakhovski, Savos'kin). 6. Makeyevskiy metallurgicheskiy zavod (for Vasil'yev, S.V., Mal'kov, Zhidetskiy, Al'ferov). 7. Stal'proyekt (for Chernenko, Zhdanov, Zavodchikov). 8. VNIIT (for Belov). 9. Stalinskiy metallurgicheskiy zavod (for Telesov, Malakh).

(Continued on next card)

KOROLEV, A.I.--(continued) Card 2.

10. Nizhne-Tagil'skiy metallurgicheskii kombinat (for Medvedev, Novolodskiy, Vecher).
 11. Zavod "Azovstal'" (for Bul'skiy, Slepkanov).
 12. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Trubatskov).
 13. Ukrainskiy institut metallov (for Samoylov, Sladkovskiy, Kotin).
 14. Zavod "Krasnyy Oktiabr'" (for Palant).
 15. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Kurochkin).
 16. Zavod im. Voroshilova (for Sabiyev).
 17. Chelyabinskii politekhnicheskii institut (for Morozov).
 18. Giprostal' (for Garbuz).
 19. Ural'skiy institut chernykh metallov (for Pastukhov).
 20. Zavod im. Petrovskogo (for Zhigalov).
 21. Ministerstvo chernoy metallurgii USSR (for Molotov, Siverskiy).
 22. Glavspetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev).
- (Open-hearth process)

SOV/137-59-3-5127

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 31 (USSR)

AUTHOR: Lubenets, I. A.

TITLE: The Fifteenth Anniversary of the Chelyabinsk Metallurgical Plant
(Chelyabinskomu metallurgicheskomu zavodu-15 let)

PERIODICAL: Tekhn.-ekon. byul. Sovnarkhoz Chelyab. ekon. adm. r-na, 1958,
Nr 4, pp 38-39

ABSTRACT: A brief survey of the development of the Chelyabinsk metallurgical
plant during the fifteen years of its existence.

D. P.

Card 1/1

LUBENETS, I. A.

115

PHASE I BOOK EXPLOITATION SOV/5411

Konferentsiya po fiziko-khimicheskim osnovam proizvodstva stali. 5th,
Moscow, 1959.

Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii
(Physicochemical Bases of Steel Making; Transactions of the
Fifth Conference on the Physicochemical Bases of Steelmaking)
Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted.
3,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni
A. A. Baykova.

Responsible Ed.: A. M. Samarin, Corresponding Member, Academy
of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg.
Tech. Ed.: V. V. Mikhaylova.

Card 1/16

Physicochemical Bases of (Cont.)

SOV/5411

PURPOSE: This collection of articles is intended for engineers and technicians of metallurgical and machine-building plants, senior students of schools of higher education, staff members of design bureaus and planning institutes, and scientific research workers.

COVERAGE: The collection contains reports presented at the fifth annual convention devoted to the review of the physicochemical bases of the steelmaking process. These reports deal with problems of the mechanism and kinetics of reactions taking place in the molten metal in steelmaking furnaces. The following are also discussed: problems involved in the production of alloyed steel, the structure of the ingot, the mechanism of solidification, and the converter steelmaking process. The articles contain conclusions drawn from the results of experimental studies, and are accompanied by references of which most are Soviet.

Card 2/16

Physicochemical Bases of (Cont.)	SOV/5411	
Regime and the Gas Content in Metal		94
Povolotskiy, D. Ya., I. A. Lubenets, M. I. Kolosov, D. Ya. Vaynshteyn, and A. N. Morozov. Desiliconizing With Oxygen for Pig Iron Open-Hearth Furnaces		99
Shalimov, A. G., and A. K. Petrov. Investigating the Effectiveness of Treating the Molten Electric Steel by Synthetic Lime-Alumina Slag		106
[The investigation was conducted under the guidance of S. G. Voinov, Candidate of Technical Sciences, with the participation of staff members of TsNIChM (Central Scientific Research Institute of Ferrous Metallurgy) A. I. Osipov, Candidate of Technical Sciences, Ya. M. Bokshitskiy, Engineer, A. G. Shalimov, Candidate of Technical Sciences, L. F. Kosoy, Engineer, A. I. Polyakov, and staff members of the Zlatoustovskiy metallurgicheskii zavod		

Card 6/16

BOGATENKOV, V.F.; VAYNSHTEYN, O.Ya.; ZVEREV, B.F.; KOLOSOV, M.I.; LUBNETS,
I.A.; MOROZOV, A.N.; POVOLOTSKIY, D.Ya.; STROGANOV, A.I.

Desiliconization of open-hearth pig iron in the mixer. *Izv. vys.*
ucheb. zav.; chern. met. 4 no.8:32-36 '61. (MIRA 14:9)

1. Chelyabinskiy metallurgicheskiy zavod, Chelyabinskiy nauchno-
issledovatel'skiy institut metallurgii i Chelyabinskiy politekhnich-
eskiy institut.

(Cast iron--Metallurgy)

BOGATENKOV, V.F.; VAINSTEIN, O.I. [Vavnshteyn, O. Ya.]; ZVEREV, B.F.; KOLOSOV,
M. I.; LUBENET, I. A. [Lubenets, I.A.]; MOROZOV, A. N.; POVOLOTKY, D.I.
[Povolotskiy, D.Ya.]; STROGANOV, A.I.

Desilicification of Martin iron in mixers. Analele metalurgie 16 no.1:
21-27 Ja-Mr '62.

LUBENETS, I. A.

AID Nr. 990-4 14 June

PROGRESS IN CHELYABINSK METALLURGICAL PLANT (USSR)

Lubenets, I. A. Metallurg, no. 4, Apr 1963, 1-3.

S/130/63/000/004/001/004

The arc-furnace shops of the Chelyabinsk Metallurgical Plant are using oxygen in melting almost all of the steels produced at the Plant. New mold lubricants have made it possible to roll ingots of high-alloy steels, including stainless, without conditioning. In 1957, a highly mechanized shop-combine (arc-furnace, conditioning, and forging shops) for high-grade steels and alloys was put into operation. The Plant also has vacuum-arc and electroslag furnaces. The first furnace in the USSR for melting synthetic slags is under construction. Synthetic slags will be used for the final refining of steels melted in conventional arc furnaces. The central laboratory of the Plant has developed a method of ultrasonic quality control of as-forged and as-rolled metal. [DV]

Card 1/1

ALYM, L.A., inzh.; VAYNSHTEYN, O.Ya., inzh.; KEYS, N.V., inzh.; LUBENETS, I.A.,
inzh.; SMIRNOV, Yu.D., inzh.; FIRSOV, S.G., inzh.

Production of St. 5ps semikilled steel for concrete reinforcements.
Stal' 23 no.4:320-321 Ap '63. (MIRA 16:4)
(Steel, Structural--Metallurgy) (Concrete reinforcements)

S/133/63/000/004/001/011
A054/A126

AUTHORS: Lubenets, I. A., Morozov, A. N., Galyan, V. S., Khizhnichenko, A. M.

TITLE: Melting electrosteel with the use of liquid cast iron

PERIODICAL: Stal', no. 4, 1963, 323 - 325

TEXT: Liquid cast iron (containing 4.2 - 4.3% C; 0.75 - 1.15% Si; 0.70 - 1.40% Mn; 0.025 - 0.050% S; 0.13 - 0.16% P) is used in an electric melting plant in amounts of 30 - 50% of the charge and is fed into the furnace in 4 - 6 minutes, 50 - 70 minutes after the current was switched on. The difficulties encountered in deslagging after the cast iron had been fed were eliminated by feeding the total amount of lime required after tapping the first acidic slag. When establishing the technology for electric melting with the use of liquid cast iron it had to be considered that iron ore has a lower oxidizing effect in electric smelters than in open-hearth furnaces. The liquid cast iron melting method can only be used for high-carbon instrument steel (Y12/U12 - Y7/U7) and ШХ15 (ShKh15) ball bearing steel. Advantages of the new method are a reduced power consumption (by 20%) and a higher (by 2%) output of flawless products. Best re-

Card 1/2

Melting electrosteel with the use of liquid cast iron

S/133/63/000/004/001/011

A054/A126

sults were obtained when adding 35 - 40% liquid cast iron. Still better results might be expected if the liquid cast iron is refined prior to being fed into the furnace, as the silicon and manganese and a greater part of the carbon content could then be removed by the duplex process. In electric melting shops this could be done by a steam-oxygen treatment. However, the latter proposals by the authors are not yet sufficiently supported by test results. The tests described were carried out in co-operation with N. V. Keys, M. Ya. Yartsev, T. I. Malinovskaya, S. T. Ushakov, M. I. Shatalov, M. A. Bornovalov, I. Ya. Loyberg, A. F. Kozlov, G. K. Fekego, V. I. Berdnikov, and R. M. Khayrutdinov. There are 2 figures.

Card 2/2

L 35031-65 EWT(m)/EWP(b)/EWP(t) JD

18c
8/0286/65/000/005/0034/0034 35
34
B

ACCESSION NR: AP5008155

AUTHOR: Paton, B. Ye.; Dudko, D. A.; Medovar, B. I.; Latash, Yu. V.; Maksimovich, B. I.; Shevchenko, A. I.; Stupak, L. M.; Goncharenko, V. P.; Grigor'yev, L. F.; Petukhov, G. K.; Chudin, N. I.; Lubnets, I. A.; Yartsev, M. A.; Keys, N. V.; Tulin, N. A.; Kapel'nitskiy, V. G.; Privalov, N. T.; Pis'mennov, V. S.; Kholodov, Yu. A.; Bystrov, S. N.; Bastrakov, N. F.; Donets, I. D.; Silayev, A. Ya.

TITLE: Method of electroslag casting of ingots. Class 18, No. 168743

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 34

TOPIC TAGS: ingot casting, ingot electroslag casting, electroslag melting, steel melting, alloy melting, metal melting

ABSTRACT: This Author Certificate introduces a method of electroslag casting of ingots in an open or protective atmosphere or in vacuum, in which slag is first melted in a mold with a nonconsumable or consumable electrode arc or plasma jet. To improve the metal quality and the ingot surface and to raise the yield, the molten metal or, if needed, the slag is poured into the mold through a hollow consumable or nonconsumable electrode (see Fig. 1 of the Enclosure). Orig. art. has: 1 figure. [ND]

Card 1/3

L 35031-65

ACCESSION NR: AP5008155

ASSOCIATION: Chelyabinskiy metallurgicheskiy zavod (Chelyabinsk Metallurgical Plant)

SUBMITTED: 06Feb63

ENCL: 01

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3215

Card 2/3

L 42972-65 EWT(m)/EWA(g)/EWP(v)/EWP(z)/EWP(S) JD
ACCESSION NR: AF5008709 S/0133/65/000/003/0232/0235

AUTHOR: Lubenets, I. A.; Zhukov, D. G.; Voinov, S. G.; Shalimov, A. G.; Kosoy, L. P.; Kalinnikov, Ye. S.; Chernyakov, V. A.; Yartsev, M. A.; Golikov, Ye. S.; Mysina, G. Ye

TITLE: Synthetic slag refining of steel from large-capacity arc ovens

SOURCE: Stal', no. 3, 1965, 232-235

TOPIC TAGS: steel refining, synthetic slag, ball bearing steel, chromium steel, low impurity steel, arc oven steel

ABSTRACT: During the second half of 1963, one of the electrical steel-smelting enterprises started introducing the refining of steel by means of synthetic lime-alumina slag into industrial use. The present article reports on the preliminary findings concerning the efficiency of this new process. Tests were carried out with a slag-melting OKB-284 oven having an interior diameter of 5350 mm and a 2000 kVA transformer. The wall and cover were made of chromomagnesite while the floor was lined with carbon blocks; the smelting chamber had a diameter of 3000 mm and was 800 mm deep. All pertinent conditions and operational data are given.

Card 1/2

L 42972-65

ACCESSION NR: AP5008709

in considerable detail. Specifically, 1) the oven produced 2.5 metric tons/hr. of slag; 2) during production of ball-bearing and construction chromium steel, the slag consumption amounted to 2.8-5.0% of the mass of processed metal; 3) the oven consumed about 1420 kWh per metric ton of slag produced; 4) the shortened refining operation decreased the consumption of electrical energy by 30-40 kWh per metric ton of metal, which compensated fully for the energy requirements for production of slag; and 5) the productivity of the large-capacity electrical furnaces increased by 11-15%. The text contains several tables, as shown in the original tables presenting the results of the work. In addition, the amount of metallic impurities and improved mechanical properties of the finished steel. The technological procedure for the production of the steel. The authors improve the quality of the above-mentioned special steels even more and reduce the impurity content even further. "In this work, carried out in conjunction with TANIICHM, N. V. Keys, V. G. Pegov, Ye. B. Men'shenin, M. A. Barnovalov, G. B. ... M. I. Shatalov, A. A. Malchanova, M. Ye. Anisimova, and others also took part." Orig. art. has: 5 tables.

ASSOCIATION: None

SUBMITTED: 00

NO REF SOV: 001

ENCL: 00

OTHER: 000

SUB CODE: MM

Card 2/2 B/j

LJIBENETS, I.A.; ZHUKOV, D.G.; PEGOV, V.G.; GOLIKOV, Ye.S.

Refining steel by synthetic slag. Metallurg 10 no.7:25 71:65.
(MIRA 28:7)

LUBENETS, I.A.; ZHUKOV, D.G.; VOINOV, S.G.; SHALIMOV, A.G.; KOSOY, L.F.;
KALINNIKOV, Ye.S.; CHERNYAKOV, V.A.; YARTSEV, M.A.; GOLIKOV, Ye.S.;
MYSINA, G.Ye.; Primali uchastiye: KEYS, N.V.; PEGOV, V.G.;
MEN'SHENIN, Ye.B.; BARNOVALOV, M.A.; SHIRER, G.B.; SHATALOV, M.I.;
MOLCHANOVA, A.A.; ANISIMOVA, M.Ye.

Refining steel with synthetic slag from large-capacity arc
furnaces. Stal' 25 no.3:232-235 Mr '65. (MIRA 18:4)

LUBENETS, I.A.; LUKIN, P.G.; GAVRILYUK, L.Ya.; PROKHOROV, V.N.

Results of the use of natural gas in blast furnaces. Metallurg 10
no.9:5-7 S '65. (MIRA 18:9)

1. Chelyabinskiy metallurgicheskiy zavod.

VERNIKOVSKIY, K.B.; LUBENETS, I.P.; ORLOV, V.S.; SHCHELKANOV, V.A.;
DENISOV, Ye.M.

Induced block caving at the Gora Blagodat' mine. Gor. zhur.
no. 12:29-32 D '65. (MIRA 18:12)

1. Goroblagodatkoye zhelezorudnoye mestorozhdeniye (for
Vernikovskiy, Lubnets, Orlov). 2. Institut gornogo dela,
Sverdlovsk (for Shchelkanov, Denisov).

LUBENETS, L. G.

Cand Tech Sci - (diss) "Study of possibilities for use of hydraulic amplifiers of "valve-nozzles" /Бопло-заблонка in metal-cutting machine tools." Kiev-Minsk, 1961. 23 pp; (Ministry of Higher, Secondary, and Professional Education Belorussian SSR, Belorussian Polytechnic Inst imeni I. V. Stalin); 170 copies; price not given; (KL, 6-61 sup, 220)

S/124/62/000/006/015/023
D234/D308

AUTHOR: Lubenets, L. G.

TITLE: Investigation of the hydraulic nozzle-shutter amplifier

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 6, 1962, 74, abstract 6B481 (Sb. nauchn. tr. aspirantov Kiyevsk. politekhn. in-ta, Kiev, 1961, 48-58)

TEXT: The results are described of an investigation of the characteristics of a hydraulic nozzle-shutter amplifier, used in modern automatic control systems. The investigation was carried out on an installation of which a diagram is given. Flow rate characteristics of the nozzle are given; it is shown that the flow rate coefficient is practically independent of the nozzle diameter. An example is also given of the diagram of a hydraulic tracking system with a differential hydraulic nozzle-shutter amplifier, and equations for calculating its static velocity and traction characteristics. Formulas for calculating the amplification coefficients of the

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system are quoted. It is shown that the system in question possesses very high sensitivity and static accuracy. [Abstracter's note: Complete translation.]

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ACCESSION NR: AR4003201

S/0277/63/000/009/0082/0082

SOURCE: RZh. Mashinostr. materialy*, konstr. i raschet detaley mashin, Abs. 9.48.489

AUTHOR: Sidorko, I. V.; Lubenets, L. G.

TITLE: Utilization of the frequency method in determining stability and control factors in hydraulic stabilized tracking systems

CITED SOURCE: Tr. Kiyevsk. politekhn. in-ta, v. 37, 1962, 41-59

TOPIC TAGS: frequency method, tracking system stability, tracking system control, stabilized tracking system, hydraulic tracking system, stabilized hydraulic tracking system, hydraulic stabilized tracking system, successive stabilization, consecutive stabilization, tracking system successive stabilization, tracking system consecutive stabilization, successive tracking system stabilization, consecutive tracking system stabilization, balance equation, liquid consumption balance equation, valve motion equation, hydraulic engine motion equation, nonhomogeneous linear differential equation, tracking system

TRANSLATION: The dynamic calculation of systems with tracking stabilization is

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given. A method is given of compiling and solving a system of equations describing the behavior of the hydraulic tracking drive system. The system of equations consists of fuel balance equations through the operational slots of the installations, and the resistances of the hydraulic contacts, equations of movement of the valve of the control and regulation equipment, and the equation of the movement of the hydraulic motor. The equations are set up in a system of nonuniform linear differential equations in an operative form.

SUB CODE: DC

ENCL: 00

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