

BOGOYAVLENSKIY, Georgiy Pavlovich

[Throughout our land; concise bibliography on the geography of the U.S.S.R.] Po nashei strane; kratkii ukazatel' literatury po geografii SSSR. Moskva, Geografiz, 1954. 86 p. (MLRA 8:2)
(Bibliography--Geography)

BOGOYAVLENSKIY, G.P.

BOGOYAVLENSKIY, G.P.; FOMINA, Ye.N., redaktor; KHOVANSKIY, I.P.,
tekhnicheskiy redaktor.

[Russian geographers and travellers, list of recommended
literature] Russkie geografy i puteshestvenniki; rekomenda-
tel'nyi ukazatel' literatury. Vstup.stat'ia nauchnaia imeni
V.I.Lenina, 1955. 118 p. (MLRA 8:11)
(Bibliography-Explorers)

MARUASHVILI, Levan Iosifovich; ~~BOGOYAVLENSKIY, G.P.~~, redaktor; DOSHELEVA,
S.M., tekhnicheskiy redaktor

[Vakhushti Bagrationi, his predecessors and contemporaries;
geographical works and travels] Vakhushti Bagrationi, ego pred-
shestvenniki i sovremenniki; geograficheskie trudy i puteshestviia.
Moskva, Gos. izd-vo geogr. lit-ry, 1956. 135 p. (MIRA 9:9)
(Geographers, Georgian)
(Explorers, Georgian)

DREMLYUG, Valentin Valentinovich; ~~BOGOYAVLJENSKIY, G.P.~~, redaktor; KOSHCHENVA,
S.M., tekhnicheskij redaktor

[Secret of vanished lands of the Arctic] Taina ischeznuvshikh zemel'
Arktiki. Moskva, Gos. izd-vo geogr. lit-ry, 1956. 43 p. (MLRA 10:3)
(Arctic regions)

Bogoyavlenskiiy, G. P.

PHASE I BOOK EXPLOITATION 483

Dremlyug, Valentin Valentinovich

Tayna ischeznuvshikh zemel' Arktiki (Mystery of the Vanished Lands of the Arctic) Moscow, Geografiz, 1956. 43 p. 50,000 copies printed.

Ed.: Bogoyavlenskiiy, G. P.; Tech. Ed.: Kosheleva, S. M.;
Map Ed.: Golitsyn, A. V.

PURPOSE: The purpose of this booklet is to inform the general reader about drifting islands of the Arctic and to present a theory of their origin and development.

COVERAGE: Navigators and scientists have long noticed the existence in the Arctic of islands which after their discovery are either never seen again or else found later in a different location in the north polar region. Various theories have been

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advanced on the origin of these drifting islands. According to one widely accepted theory, they are gigantic floating ice islands originating in the vicinity of the Canadian Archipelago. They are fragments of fast ice broken off from the northern coasts of Ellesmere Island and drifting with the current along the American and Siberian coasts towards the Greenland Sea. N.N. Zubov believes that the drift of the islands is related to atmospheric pressures. He shows that the islands follow the isobars so that in the northern hemisphere the area of increased pressure is to the right and the area of decreased pressure to the left of the line of drift. The rate of drift is inversely proportional to the distance between the isobars.

Exploration in the Arctic, with emphasis on Russian participation, is described and a fairly detailed account is given of the discovery, make up, and location of some of the larger and better known islands, such as "Zemlya Sannikova", and "Zemlya Andreyeva" in the East Siberian Sea, which the author says are most probably very old giant ice packs formed in shallow regions of the East Siberian Sea, drifting from time to time due to the disruptive

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influence of relatively warm Summer currents on the submerged portion of the ice. Among other islands mentioned are "Zemlya Polyarnikov", "Zemli Tak-Puka" and "Ostrov Krestyanka." Other Soviet scientists who have contributed to this field are: B.F. Burkhanov, P.A. Gordiyenko, V.D. Dibner, Yu. Shokal'skiyy D. Karelin, V. Buynitskiy, and P.A. Kropotkin. The text is illustrated with maps and cross sections of some of the islands. There are 13 references, 12 Soviet and 1 English.

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AVAILABLE: Library of Congress
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MM/jmr
8-13-58

BOGOYAVLENSKIY, G.P.

LEONOV, Nikolay Ivanovich; ~~BOGOYAVLENSKIY, G.P.~~, redaktor; NOGINA, N.I.,
tekhnicheskii redaktor

[Petr Petrovich Semenov Tian-Shanskii; on the centenary of
the first journey into Tien Shan in 1856-1857] Petr Petrovich
Semenov Tian-Shanskii; k stoletiiu pervogo puteshestviia v
Tian'-Shan' v 1856-1857 gg. Moskva, Gos. izd-vo geogr.
lit-ry, 1957. 46 p. (MLRA 10:4)
(Semenov-Tian-Shanskii, Petr Petrovich, 1827-1914)

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Geografiia SSSR; annotirovannyi ukazatel' literatury v pomoshch'
uchiteliu. Moskva, Gos. uchebno-pedagog. izd-vo M-va Prosv. RSFSR,
1957. 167 p. (MIRA 11:10)

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PUZANOV, Ivan Ivanovich, professor; ~~BOGOYAVLENSKIY, G.P., redaktor;~~
NOGINA, N.I., tekhnicheskiy redaktor

[In the Swiss Alps. Between the Nile and the Red Sea] v Shveitsar-
skikh Al'pakh, Mezhdu Nilom i Krasnym morem. Moskva, Gos.izd-vo
geogr.lit-ry, 1957. 276 p. (MLRA 10:7)

(Switzerland--Description and travel)

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red.kart; GIZYKH, D.A., tekhn.red.

[The earth and its people; a geographical calendar for 1958]
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Geografiz, 1957. 290 p. (MIRA 11:1)
(Geography)

Bogoyavlenskiy) G.P.

PHASE I BOOK EXPLOTATION

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-Akademiya nauk BSSR. Institut ekonomiki.

Belorusskaya SSR (The Belorussian SSR) Moskow, Geografiz, 1957. 486 p. 5,000
copies printed.

SPONSORING

AGENCY: Akademiya nauk Belorusskoy SSR. Institut ekonomiki.

RESP. EDS.: Kovalevskiy, G. T., Martinkevich, F. S.; Kuz'mina, N. G.,
Bogoyavlenskiy, G. P.; Tech. Ed.: Nogina, N. I.; Map Ed.:
Chentsova, V. A.

PURPOSE: The book is intended for geography teachers and university students;
it is also recommended to employees of Soviet planning organizations.

COURAGE: The book is divided into a general description and a survey by oblasts.
The first part gives the historical background, a geographic descrip-
tion and an economic survey of the republic; the second part deals
with each of the seven Belorussian oblasts. The author makes reference

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The Belorussian SSR (Cont.)

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to the destruction inflicted by World War II and he states that in 1940 Belorussia had a population of 9,200,000 whereas today its population is only 8,000,000. The author does not account for the cession of the Bialystok region. Flax is the main technical crop of Belorussia and the republic boasts of a well-developed linen industry. Potato cultivation and the industrial use of potatoes along with pig breeding follow in importance in the Belorussian national economy. The main manufacturing industries are in order of their importance by ruble value: the food-processing industries, light industries, the metalworking and machine-building industries, including motor vehicles. Four-fifths of Belorussian manufacturing is carried on in four original Soviet oblasts (Minskaya, Vitebskaya, Mogilevskaya, and Gomel'skaya). Local power stations are predominantly peat-burning stations and are supplied from numerous peat bogs. Peat is the only domestic fuel in addition to wood. Over 7,000,000 metric tons of peat were mined in 1955. Coal and oil are imported. The development of electric power facilities is treated to a considerable extent but capacities of the power plants are seldom mentioned. The peat-burning Belorusskaya GRES im. Stalina is the largest of the plants. Considerable attention is paid to industrial enterprises of all-Union

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significance, e.g.; the Minsk Tractor Plant and the Minsk Motortruck Works. The Motortruck Works is the only producer of 25-ton dump trucks for the Soviet market. The Tractor Works makes 11 percent of Soviet tractors including the Belarus' type, a wheel tractor. The machine-tool plants of Belorussia build one-twelfth of all Soviet machine tools. Only the "Kirov" and "Voroshilov" plants at Minsk are specifically mentioned. There are altogether 6 machine-tool plants in operation and one more plant is under construction. Two other plants of all-Union importance are discussed, both of them in Minsk: a tractor plant and a motorcycle plant. The latter manufactures 10 percent of all Soviet motorcycles and 16 percent of all Soviet bicycles. Several plants making electric equipment are also mentioned but little information is given concerning equipment. Only seven photographs are related to Belorussian industries. These show: 1) an inside view of a tractor-assembly shop, 2) a 40-ton trailer built at the Minsk Motortruck Works, 3) a general view of the Osipovich Hydroelectric Power Station, 4) the Rechitsa Furniture Combine in Gomel'skaya Oblasts, 5) a Clinker kiln at the Krichev Cement Plant, 6) an inside view of the Minsk Worsted Textiles Combine, 7) inside view of the Vitebsk Rug and Velvet Combine. There are 100 photographs, 30 maps, 10 tables, and 200 Soviet references.

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May 26, 1958

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(White Russia--Economic geography)

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ROTOPAYEV, Pavel Sergeyevich; BOGOYAVLENSKIY, G.P., red.; KOSHELEVA, S.M.,
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[Conquest of the giants; history of the climbing of the highest
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shimi gornymi verшинami. Moskva, Gos. izd-vo geogr. lit-ry, 1958.
447 p. (MIRA 11:5)

(Mountaineering)

BOGCYAVIENSKIY, G.P.; DONAYEV, V.N.; NEDOSEKIN, D.V., Primaliuchastiye:
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ZABLIN, I.M., kand.geograf.nauk, nauchnyy red.; SAMSONENKO, L.V.,
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avtor kart; KEMMERIKH, A.O., avtor kart. Prinimal uchastiye
GALITSKIY, V.A.. GRIN, M.F., kand.ekonom.nauk, nauchnyy red.;
ZABELIN, I.M., kand.geograf.nauk, nauchnyy red.; SAMSONENKO,
L.V., nauchnyy red.; FRADKIN, N.G., kand.geograf.nauk, nauchnyy
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red.; GLEBYKH, D.A., tekhn.red.

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(Calendars)

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M.S., tekhn.red.

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Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 173 p.
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kart; BELEN'KIY, A.B., kand.istor.nauk; nauchnyy red.; GRIN, M.F.,
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lit-ry, 1960. 262 p. [___New construction projects, 1959-1965;
color map. Appendix to "Zemlia i liudi," the 1961 geographical
calendar] ___Novostroiki semiletki, 1959-1965; tsvetnaia karta.
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(MIRA 16:2)

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lei. Moskva, Uchpedgiz, 1963. 207 p. (MIRA 16:6)
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Reviewed by G.P.Bogoiavlenskii. Vest. AN SSSR 33 no.9:
102-103 S '63. (MIRA 16:9)
(Discoveries (In geography)—Russian)
(Berg, L.S.)

BOGOYAVLENSKIY, G.P.; SHISHKIN, I.B.; Primal uchastiye GALITSKIY, V.A.; MAL'CHEVSKIY, G.N., red.-sostavitel' kart; BELEN'KIY, A.B., kand. ist. nauk, nauchn. red.; GRIN, M.F., kand. ekon. nauk, nauchn. red.; ZABELIN, I.M., kand.geogr. nauk, nauchn. red.; SAMSONENKO, L.V., nauchn. red.; FRADKIN, N.G., kand. geogr. nauk, nauchn. red.; BELICHENKO, R.K., mlad. red.; KIR'YANOVA, Z.V., mlad. red.; VILENSKAYA, E.N., tekhn. red.

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BOGOYAVLENSKIY, I.B.; GRIGOR'YEV, V.M.; RUDENKO, N.S.; DOLGOPOLOV, D.G.

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(MLRA 10:11)

1. Fiziko-tekhnicheskiy institut AN USSR,
(Mercury--Isotopes)

BOGOYAVLENSKIY, I. F.

USSR/Medicine - Roentgenology

Card 1/1

Authors : Bogoyavlenskiy, I. F., Leningrad

Title : An experiment on laminar X-ray investigation on acute interstitial pneumonia

Periodical : Vest Rentgen i Radiol 1, 8-14, 1954

Abstract : Describes a method of tomographic investigation consisting of taking successive X-rays of layers of tissue. The results of the investigation indicate that the anatomical pathological substrata of acute interstitial pneumonia is a disease consisting of the inflammation of all layers of bronchial wall and the vascular wall. Acute interstitial pneumonia is the beginning phase of chronic interstitial pneumonia in many cases. Two references; both USSR. Seven photographs (X-rays).

Institution :

Submitted : Presented at the 17th scientific session of the Arkhangel'sk Medical Institute May 24, 1952.

BOGOYAVLENSKIY, I.F.

The Methodology of Intrathoracic Administration of penicillin and other Medicines
VOYENNO-MEDITSINSKIY ZHURNAL (Military Medical Journal), no. 2, February 1955, p. 60

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KRYLOV, A.A., kapitan meditsinskoy sluzhby; BOGOYAVLENSKIY, I.F., mayor
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Diagnostic value of initial hypoproteinemia in gastric ulcer.
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(PEPTIC ULCER, blood in,
hypoproteinemia, diag. value) (Rus)

(BLOOD PROTEINS, deficiency,
in peptic ulcer, diag. value) (Rus)

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Khirurgiia, Moskva 32 no.9:73-76 S '56. (MIRA 12:7)

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S.M. Kirova.

(PEPTIC ULCER blood)
(BLOOD PROTEINS)

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'60. (MIRA 13:12)

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on the function of the hand. Ortop. travm. i protez. 21 no. 10:31-
35 '60. (MIRA 14:1)

(WRIST--WOUNDS AND INJURIES) (HAND)

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1. Iz kafedr klinicheskoy anatomii i operativnoy khirurgii (zav. - prof. A.P. Nadein), rentgenologii i radiologii (zav. - prof. Sh.I. Abramov) Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey, ortopedii i travmatologii (nach. - prof. I.L. Krupko), rentgenologii i radiologii (i. o. nach. - prof. V.S. Vakhtel') voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

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1. Kazanskiy aviatsionnyy institut, Kazan'kiy gosudarstvennyy meditsinskiy institut i Blagoveshchenskiy-na-Amure gosudarstvennyy meditsinskiy institut.

BOGoyAVZENSKIY, I.V.

AUTHORS: Bogoyavlenskiy, I.V., Grigor'yev, V.N., Rudenko, N.S., 56-3-5/59
 Dolgoplov, D.G.

TITLE: Modification of the Mercury Isotope Composition in the Electric Field of a Constant Current. (Izmeneniye izotopicheskogo sostava rtuti v elektricheskom pole postoyannogo toka)

PERIODICAL: Zhurnal Eksperim.i Teoret.Fiziki, 1957, Vol. 33, Nr 3, pp. 581-587 (USSR)

ABSTRACT: In a capillary the dependence in the isotopic composition of liquid Hg on the time needed for the passage of a constant current at $41 \pm 2^\circ\text{C}$ and $-10 \pm 3^\circ\text{C}$ is investigated. The time of current passage varied from a minimum of 340 h to a maximum of 1800 h. Further, the concentration of isotopes along the electric field and the dependence of isotope composition at the cathode upon the amounts of the applied voltage were investigated. The following was found for the ion mobility $\Delta\mu/\mu$:

T in °C	$\Delta\mu/\mu$	($\beta = \Delta\mu/\mu \cdot m/\Delta m$)
45	$1,1 \cdot 10^{-3}$	$0,73 \cdot 10^{-1}$
115	$1,3 \cdot 10^{-3}$	$0,86 \cdot 10^{-1}$

There are 5 figures, 1 table and 4 Slavic references.

Card 1/2

43383

S/056/62/043/005/056/058
B125/B104

11.3120
AUTHORS:

Bereznyak, N. G., Bogoyavlenskiy, I. V., Yesel'son, B. N.

TITLE:

The curves representing the onset of solidification of helium isotope solutions

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1981-1982

TEXT: The method of thermal analysis was used to establish a correlation between the solidification pressure and the composition of the liquid phase in order to draw the diagram for the equilibrium between the solid and the liquid phase of solutions of He³ in He⁴. The temperature and pressure at which the solutions of He³ in He⁴ begin to solidify (10.3; 24.1; 53.0 and 76.4%He³) can be determined from the salient points of the curve representing the time dependence on temperature and pressure. A resistance thermometer was used to measure the temperature of the calorimeter, whilst the pressure inside the latter was determined from the elastic deformation of the calorimeter wall, using a strain gauge. Between 1.5 and 4.2°K, the

Card 1/4

The curves representing...

S/056/62/043/005/056/058
B125/B104

pressure at the beginning of liquefaction increases as the portion of He³ increases in the solution (Fig. 1). The dependence of the solidification pressure on the He³ portion in the solution is constructed from these data at various temperatures (Fig. 2). The shape of the isotherms, and the good agreement with the results obtained by blocking the capillary tubes, are indicative of a narrow "demixing region" in the above-mentioned equilibrium diagram. The present results agree satisfactorily with recent data obtained for the temperature range from 1.0 to 2.1°K. The point at which solutions of He³ in He⁴ cease to solidify is now being determined. There are 2 figures.

ASSOCIATION: Fiziko-tehnicheskii institut Akademii nauk Ukrainskoy SSR
(Physicotechnical Institute of the Academy of Sciences of the
Ukrainskaya SSR)

SUBMITTED: September 12, 1962

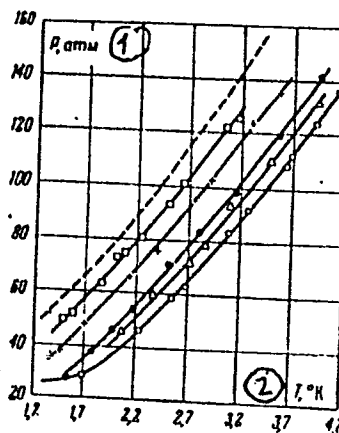
Card 2/4

The curves representing...

Fig. 1. Pressure at which the solutions begin to solidify as a function of temperature.

Legend: (o) 0% He³; (Δ) 10.3% He³; (●) 24.1% He³; (+) 53.0% He³; (□) 76.4% He³; dotted line: Pure He³; (1) pressure in atmospheres; (2) °K.

S/056/62/043/005/056/058
B125/B104



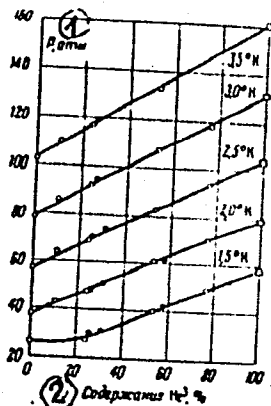
Card 3/4

The curves representing...

S/056/62/043/005/056/058
B125/B104

Fig. 2: The dependence of the solidification pressure of helium isotope solutions on the composition of the liquid phase: (o) the results of the present work; (e) the results obtained by the method of blocking of the capillary tubes; (o) data obtained by Grilly and Mills for pure He³.

Legend: (1) P, atm, (2) percentage of He³, %.



Card 4/4

BEREZNYAK, N.G.; BOGOYAVLENSKIY, I.V.; YESEL'SON, B.N.

Equilibrium diagram for the liquid - crystal system $\text{He}^3 - \text{He}^4$.
Zhur. eksp. i teor. fiz. 45 no.3:486-495 S '63. (MIRA 16:10)

1. Fiziko-tehnicheskiy institut AN Ukrainskoy SSR.
(Helium isotopes—Thermodynamic properties)

ACCESSION NR: AP4043620

S/0056/64/047/002/0480/0483

AUTHORS: Bogoyavlenskiy, I. V.; Bereznyak, N. G.; Yesel'son, B. N.

TITLE: Measurement of the liquid-crystal equilibrium diagram of helium isotope solutions

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 480-483

TOPIC TAGS: liquid helium system, binary phase diagram, polymorphism, solid phase, liquid phase

ABSTRACT: Continuing earlier work (ZhETF, v. 45, 486, 1963) on the determination of the liquid-solid diagrams of state of the isotope system $\text{He}^3\text{-He}^4$, the authors measured the curves of the start and end of solidification of solutions with molar concentration 53.6 and 76.5% He^3 and determined the width of the stratification region over the entire concentration interval. The temperature range covered was 1.4--4.0K. The coordinates of the triple points, con-

Card 1/2.

ACCESSION NR: AP4043620

ected with the polymorphic transition into the solid phase, were also determined for the investigated solutions. The equilibrium diagram between the solid and liquid phase of the system was constructed and was found to be of the peritectic type in the pressure range from 50 to 140 atm. "We thank B. G. Lazarev for interest in the work and I. A. Shapoval for help with the measurements, corresponding member AN SSSR N. Ye. Alekseyevskiy for providing the opportunity to carry out the mass-spectrometric analysis, and A. V. Dubrovin for participating in these measurements." Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Fiziko-tehnicheskiy institut Akademii nauk SSSR
(Physicotechnical Institute, Academy of Sciences UkrSSR)

SUBMITTED: 21Mar64

ENCL: 00

SUB CODE: GP, TD

NR REF SOV: 003

OTHER: 003

Card 2/2

BOGOYAVLENSKIY, I.V. [Bohoiavlens'kyi, I.V.]; BEREZNYAK, N.G.
[Berezniak, N.H.]

Establishment of concentration equilibrium in the crystallization
of solutions of helium isotopes. Ukr.fiz.zhur. 10 no.12:
1376-1377 D '65. (MIRA 19:1)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.
Submitted September 6, 1965.

L 32611-66 EWI(m)/EWP(+)/ETI IIP(c) JD

ACC NR: AP6014022

SOURCE CODE: UR/0056/66/050/004/0853/0855

42
40

B

AUTHOR: Berezhnyak, N. G.; Bogoyavlenskiy, I. V.

ORG: Physicotechnical Institute, Academy of Sciences, Ukrainian SSR (Fiziko-
tehnicheskiiy institut, Akademiya nauk Ukrainiskoy SSR)

TITLE: Visual observation of the solidification of helium isotope solutions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 4, 1966,
853-855

TOPIC TAGS: liquid helium, freezing, crystallization, *ISOTOPE*

ABSTRACT: In view of the fact that the results of numerous recent experiments with solutions of He³ in He⁴ have suggested that the crystallization of the solutions of isotopes should differ in its mechanism from the known simple mechanism for the solidification of pure He⁴, the authors have carried out direct experiments which permitted visual observation of the solidification of solution with 25.6% He³. The experiments were made in a glass ampoule (45 mm long and 8 mm in dia.), in which the crystallization was effected at constant volume. Depending on the relation between the pressure and temperature, the solidification was into a phase with hexagonal close packed structure (hcc), solidification with transition of the hcc structure into a body-centered cubic structure (bcc), followed with separation of bcc crystals, and solidification into bcc crystals directly. In all cases the crystallization mechanism was different from that of pure He⁴ in that the latter was initiated by solidification

Card 1/2

L 32611-66

ACC NR: AP6014022

of a transparent solid layer on the walls of the ampoule, which grew into a solid transparent crystal, whereas in the case of the solution the solidification began in the form of frost and minute crystals precipitating in a liquid. The results are interpreted from the point of view of the possibility of simultaneous existence of the liquid and solid phases in the form of a homogeneous mixture. The authors thank Academician of AN UkrSSR B. G. Lazarev and Professor V. S. Kogan for a useful discussion of the work. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 04Sep65/ ORIG REF: 004

Card 2/2 *So*

Bogoyavlenskiy K. A.

AUTHORS: Stepanenko, M.A., Soldatenko, Ye.M., Matusyak, N.I. 68-58-2-5/21
and Bogoyavlenskiy, K.A.

TITLE: X-ray Analysis of Pitch Cokes (Rentgenostrukturnyy analiz pekovykh koksov)

PERIODICAL: Koks i Khimiya, 1958, Nr 2, pp 31 - 35 (USSR)

ABSTRACT: Results of X-ray structural investigations of pitch cokes from Zaporozhe, Khanzhenskoy and Kemerovsk Coke Oven Works are described. In the evaluation of pitch coke as a raw material for the electrode industry, the most important is not so much its initial characteristics, but the dynamics of changes of the individual indices on thermal treatment and in particular the ability to increase the density. Therefore, not only initial samples were studied, but also samples which were submitted to ignition and graphitisation in industrial furnaces of the Dneprovsk Electrode Works. In addition to parameters of X-ray structural analysis, as indices characterising the coke substance and its structure, the chemical composition, specific gravity and specific electrical conductivity were determined. Copper radiation with a nickel filter was used for X-ray powder photographs. As a criterion of the degree of order, the sizes of "packets" along c and a axis were taken, i.e. the width of interference bands (002) and (10)

Card 1/2

X-ray Analysis of Pitch Cokes

68-58-2-5/21

The results obtained are assembled in the table.
There are 2 figures, 1 table and 7 Soviet references.

ASSOCIATION: UKhIN

AVAILABLE: Library of Congress

Card 2/2

1. Coke - Properties
2. Coke - Structural analysis
3. Coke - X-ray analysis
4. X-rays - Applications

SOV/68-58-12-8/25
AUTHOR: Tsynovnikov, A.S., Shemeryankin, B.V., Shvarts, S.A.
and Bogoyavlenskiy, K.A.
TITLE: The Determination of Size Analysis of Coke on Screens
with Square and Round Mesh (Opredeleniye sitovogo
sostava koksa na sitakh s kvadratnymi i kruglymi
otverstiyami)
PERIODICAL: Koks i Khimiya, 1958, Nr 12, pp 25-28 (USSR)
ABSTRACT: The relationship between the size analysis of coke on
screens with square and round mesh, namely the ratio of
D : S (diameter of square mesh to diameter of round mesh)
for cokes of various origin was investigated. The
experimental results are shown in figs 1, 2, and Tables
1, 2. Coefficients (K) for recalculating size
distribution from screens with round mesh to screens

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SOV/68-58-12-8/25
The Determination of Size Analysis of Coke on Screens with Square
and Round Mesh

with square mesh for various types of coke are given in
Table 3 and mesh sizes for round and square mesh screens
for various size fractions in Table 4.

There are 4 tables and 2 figures.

ASSOCIATIONS: VUKhIN and UKhIN

Card 2/2

18 (7)

AUTHORS:

Bogoyavlenskiy, K. A., Soldatenko,
Ye. M.

SOV/32-25-5-14/56

TITLE:

Quantitative Determination of the Content of Cyclic
Polymerized Carbon in Coke (Kolichestvennoye opredeleniye
soderzhaniya v kokse tsiklicheski polimerizovannogo ugleroda)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 562-564 (USSR)

ABSTRACT:

It is shown that by the evaluation of the integral intensity of individual maxima in photometric recording curves of roentgenograms an approximately quantitative determination of the content of well structured carbon may be carried out in high-carbonized compounds. The roentgenogram (R) of a coke actually represents the sum of some (R) - 1. The (R) of the completely disordered substance, 2. The (R) of the dimetrically ordered lattice of the graphite type, 3. The (R) of "blocks" which consist of some parallel lattices. The maximum (002) is present in all (R) carbonized compounds, and is especially strongly marked in coke, for which reason the evaluation takes place according to this maximum in the present case. The method was applied, that had been worked out on the basis of phase analysis by the admixture of a

Card 1/3

Quantitative Determination of the Content of Cyclic
Polymerized Carbon in Coke

SOV/32-25-5-14/56

standard sample. Sodium fluoride served as standard sample. The calibration curves were plotted according to a mixture of Acheson graphite with NaF (Fig 2). The (R) were taken on an instrument VNIIO-5 (electron tube construction according to Dudavskiy and Chuprinin) and measured on the microphotometer MF-2. Mixing of the sample with NaF must be made very carefully, under certain conditions, as otherwise deviations may occur with different samples of the same composition. The integral density of blackening was determined as a surface lying between the curve of the maximum and the background line (Fig 1 photometric recording curve of (R) of a coke mixture of the Zaporozh'skiy koksokhimicheskiy zavod (Zaporozh'ye Coke Chemical Factory)). Results obtained from roentgenographic investigations of this type show that, for example, metallurgical coke types of the Donbass Factories differ in their fine structure, in which connection a considerable difference may be observed in the content of structured carbon. There are 2 figures, 2 tables, and 1 reference.

Card 2/3

Quantitative Determination of the Content of Cyclic
Polymerized Carbon in Coke SOV/32-25-5-14/56

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy uglekhimicheskiy
institut (Ukraine Scientific Research Institute of Coal
Chemistry)

Card 3/3

BOGOYAVLENSKIY, K.A.

Mechanical properties of coke of different size categories. Koks i
khim. no.11:30-32 '60. (MIRA 13:11)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke)

VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.;
 ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.;
 STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Primali
 uchastiye: TORYANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.;
 SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.;
 ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.;
 LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.;
 KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, G.G.; TARASOV, D.A.;
 GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.;
 PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye.

Effect of the length of coking on coke quality and the performance
 of blast furnaces. Koks i khim. no.12:26-32 '61.

(MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut (for Voloshin,
 Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Toryanik,
 Vasil'yev, Shemel').
2. Zhdanovskiy koksokhimicheskiy zavod
 (for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov,
 Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, Tsimbal).
3. Ural'skiy
 nauchno-issledovatel'skiy institut chernykh metallov (for
 Onopriyenko, Starshinov, Babiy, Sen'ko, Konareva, Solodkiy).
4. Zavod "Azovstal'" (for Savelov, Lukashov, Tarasov, Gorbanev,
 Suprun, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy,
 Ponomareva).

(Coke)

(Blast furnaces)

BOGOYAVLENSKIY, V. A., inzh.

Specific features of unsteady heat exchange in stopes of deep mines. Izv. vys. ucheb. zav.; gor. zhur. no. 9:85-91 '61.
(MIRA 15:10)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy rudnichnoy ventilyatsii.

(Heat—Transmission) (Mine ventilation)

BOGOYAVLENSKIY, K.A.; Prinimal uchastiyе SOLDATENKO, Ye.M.

Effect of the secondary thermal processing on the structure of the metallurgical coke. Koks i kham. no.8:23-27 '62. (MIRA 17:2)

1. Ukrainskiy uglekhimicheskii institut.

VOLOSHIN, A.I.; SKLYAR, M.G.; BOGOYAVLENSKIY, K.A.

Mechanical strength of coke and methods for its evaluation. Koks
i khim. no.9:29-33 '63. (MIRA 16:9)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke—Testing)

BOGOYAVLENSKIY, K. N.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 491-I

BOOK

CALL NO.: AF640208

Authors: SMIRNOV, V. S., BOGOYAVLENSKIY, K. N., PAVLOY, N. N.

Full Title: GROOVING OF ROLLS BY USING BARS OF EQUIVALENT CROSS-SECTION AREA

Transliterated Title: Kalibrovka prokatnykh valkov po metodu sootvetstvennoy polosy

PUBLISHING DATA

Originating agency: None

Publishing House: State Scientific and Technical Publishing House of Literature on Ferrous and Nonferrous Metallurgy (Metallurgizdat)

Date: 1953

No. pp.: 328

No. of copies: 4,500

Editorial Staff

Editor: Smirnov, V. S., Prof. Dr. of Tech. Sci.,

Technical Editors: Prokhorova, A. S. and Vecheruk, G. I.

PURPOSE: The book is intended for engineers and technologists of rolling mills and for graduate students specializing in rolling.

TEXT DATA

Coverage: This book discusses roll pass design on the basis of the theory of Prof. A. F. Golovin set forth in his book Prokatka, Ch. III.

Kalibrovka, ONTI, 1936 (Rolling, p. III, Grooving). According to the authors, Golovin suggests a new and original method of calculating the

Kalibrovka prokatnykh velkov po metodu
sootvetstvennoy polosy

AID 491-1

growing of rolls by using bars of equivalent cross-section area. In this method, a bar of a given section and a bar with a rectangular cross-section are called equivalent when their areas and the ratio between the basic dimensions of their cross section are equal. For precise calculation it was necessary to determine correction factors by means of experiments, taking into account the effect of the shape of grooves on the widening of the rolled bar. The widening is calculated by using the formula of S. I. Gutkin (Teoriya obrakotki metalla devleniyem (Theory of Pressure Metal Working), Metallurgizdat, 1947), corrected in conformity with the results of experiments in laboratories and rolling mills. The authors assert that the methods of calculating roll passes of Western scientists, e.g., Tafel, Geuze and Kirchberg, are obsolete. Generalizations from the experience of Soviet rolling mills are made, and the results of the authors' experimental investigations are described. Examples of calculations are given. The book contains tables, diagrams and nomographs.

No. of References: 31 Russian (1929-1950)

Facilities: Leningrad Polytechnic School im. M. I. Kalinin; "Plastic Metal Working" Department; Leningrad plants, particularly the Kirov Plant.

Bogoyavlenskiy, Konstantin Nikolayevich
ZHOLOBOV, Viktor Vladimirovich; ~~BOGOYAVLENSKIY, Konstantin Nikolayevich;~~
ZUBTSOV, Mikhail Yefimovich; LANDIKHOV, Aleksandr Denisovich;
LEKARENKO, Yevgeniy Moiseyevich; POSTNIKOV, Nikolay Nikolayevich;
MILLER, L.Ye., inzhener, retsenzent; BAZHENOV, M.F., inzhener,
retsenzent; CHERNOV, A.N., redaktor; STARADUBTSEVA, S.N., redaktor;
ATTOPOVICH, M.K., tekhnicheskii redaktor.

[Working non-ferrous metals and alloys by pressure] Obrabotka
tsvetnykh metallov i splavov davleniem. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955. 486 p.
(Non-ferrous metals--Metallurgy) (MLRA 8:12)

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 92 (USSR) SOV/124-58-2-2153

AUTHORS: ~~Bogoyavlenskiy~~, K. N., Pavlov, N. N.

TITLE: Roll Pressures Arising in the Rolling of Copper and Its Alloys
(Davleniye na valki pri prokatke medi i yeye splavov)

PERIODICAL: Tr. Leningr. politekhn. in-ta., 1956, Nr 185, pp 123-128

ABSTRACT: Tests have yielded data on the specific pressures arising in the rolling of copper and its alloys, also data on the rolling temperature from pass to pass.

Reviewer's name not given

Card 1/1

Богой А В ЛЕНСКИЙ, К. В.

FRASE I BOOK EXPLOITATION 30V/3226
Mezhyusovskaya nauchno-tekhnicheskaya konferentsiya na temu:
"Sovremennyye dostizheniya prokatnogo proizvodstva."

Trudy... (Transactions of the Intercollegiate Scientific and Technical Conference on Recent Achievements in the Rolling Industry) Leningrad, 1958. 251 p. 1,000 copies printed.

Sponsoring Agencies: Leningradskiy politekhnicheskyy institut im. M. I. Kalinina, Nauchno-tekhnicheskoye obshchestvo khimostroitel'stvo metallurgov, Leningradskoye otdelemiyu, and Nauchno-tekhnicheskoye obshchestvo.

Resp. Ed.: V. S. Sadinov, Doctor of Technical Sciences, Professor; Ed.: E. M. Pavlov.

NOTE: These Proceedings of the conference are intended for specialists in the rolling industry.

COVERAGE: The articles of this collection cover various theoretical and practical problems of rolling, such as: pressure, spread, pass design, optimum determination of deformation, forces required, various plants, mode variation of equipment, experience of rolling of nonferrous metals. No personalities are mentioned. References appear after each article.

Benyakovskiy, M. A. [Ural'skiy nauchno-issledovatel'skiy institut Chernykh metallov] (Ural Scientific Research Institute of Ferrous Metals), Sverdlovsk] Forces of Deformation of Metal and Automation of Band Thickness Control in Cold Rolling 184

Molenskiy, V. I., and F. M. Sedykh, [Institut Chernoy metallurgii] (Institute of Ferrous Metallurgy, AS USSR) Investigation of Energy Consumption, and Action of Force in a Continuous Hot-rolling Sheet Mill 184

Ruzsa, I. D. [Zavod Imeni Il'icha (Plant Im. Il'ich)] Relation Between Geometric and Weight Tolerances of Plate Steel 197

Shchegolevskiy, E. M. [Leningradskiy politekhnicheskyy institut im. M. I. Kalinina] (Leningrad Polytechnical Institute im. M. I. Kalinin) Pending Forces in a Structural Mill 208

Chekmarev, A. F., Ya. L. Vatin, and D. M. Litnitskiy, [Dnepropetrovskiy metalurgicheskyy institut] (Dnepropetrovsk Metallurgical Institute) Wall Thickness Variation of Large Diameter Pipe 214

SOV/137-58-11-22349

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 72 (USSR)

AUTHOR: Bogoyavlenskiy, K. N.

TITLE: Stresses on Bending in a Multiple-roll Forming Machine (Usiliya pri gibe v profilirovochnom stane)

PERIODICAL: Tr. Mezhvuz. nauchno-tekhn. konferentsii na temu: "Sovrem. dostizh. prokatn. proiz-va. Leningrad, 1958, pp 214-222

ABSTRACT: In view of the complexity of the process and the fact that it has had little study, it is proposed that the problem of determination of the stresses in bending (B) on a multiple-roll forming machine be solved in semi-empirical fashion. A laboratory machine in the Leningrad Polytechnic Institute was used for experimental determination of stresses borne by the rolls in the B of channels and angles. If the additional angle of bend in each pass is uniform, the stresses will be the greater, the greater is the total angle of bend. Therefore, the first stands should be designed to bend at a larger angle, and subsequent stands should bend less. In braking of the strip and the machine, the stress is reduced by only 5 to 10%. Comparison of stresses in the B of a shape to a given total angle in various

Card 1/2

Stresses on Bending in a Multiple-roll Forming Machine

SOV/137-58-11-22349

numbers of passes shows that the stress rises comparatively little with substantial increase in bending angle. When a channel is B, stress rises as web height diminishes. Curves of the change in pressure between metal and rolls as a function of the total bending angle, number of passes, and strip thickness are presented for the B of channels and equilateral angles.

Ya. G.

Card 2/2

507/3546

PHASE I RDX EXPLOITATION

Leningrad, Politehnicheskoy Institut

Cherboha metallor davyleniya (Metal Forming) Moscow, Mashin. 1959. 175 p. (Series: 'Ist. Trudy', No. 20) Kriya slip inserted. 2,200 copies printed.

Sponsoring Agency: VSES. Ministerstvo vyzhogo i srednego spetsial'nogo obrazovaniya.

Author: V.G. Fedorchenko, Candidate of Technical Sciences, Doctor Ed.; V.S. Saitnov, Doctor of Technical Sciences, Professor; Tech. Ed.: L.V. Sobol'minov, Managing Ed. For literature on the Design and Operation of Machines (Leningrad Division, Mashgiz); P.I. Fetisov, Engineer.

PURPOSE: This book is intended for students taking advanced engineering courses, production engineers, and personnel at schools of higher technical education and scientific research establishments studying rolling and other metal-forming processes. It contains a summary of the results of a series of investigations conducted by the metal-forming department of the Leningrad Politehnicheskoy Institut imeni M.I. Kalinina (Leningrad Polytechnical Institute imeni M.I. Kalinin). The subjects covered include problems in the theory and practice of rolling, tube drawing, extrusion and making of compound dies. The first paper complements the work of M.I. Tsellikov and Ye. P. Dubonov. References accompany most of the articles.

BOGOYAVLENSKIY, K.N.

4. Saitnov, V.S., and P'sechik, N.A. Angle of Bite in Rolling as Determined by the Cross of Surface Roughness of Rolls and Strip Dependence of the angle of bite and coefficient of friction in rolling on the surface roughness of work and rolls was investigated.	38
5. Duronov, M.B. Longitudinal Rolling of Periodic Shapes of Variable Cross Section in The Grooves	49
6. Saitnov, V.S., and M.F. Verishin, Effect of the Shape of Piercing Mandrel and Milling Mandrel Parameters of the Piercing Process	58
7. Verishin, M.F. Dependence of the Coefficient of Axial Slip and the Quality of Tubes on Piercing Speed and the Roll-Inclination Angle	76
8. Chang Shun-T'ien, Investigating Plastic Deformation in the Cross Rolling of Discs	81
9. Saitnov, V.S., and Chang Shun-T'ien, State of Stems in Cross and Helical Rolling of Discs	89
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Bogoyavlenskiy, Konstantin Nikolayevich, and Grigoriy Ivanovich Zverev

Mekhanicheskoye oborudovaniye dlya obrabotki davleniyem tsvetnykh metallov i splavov (Mechanical Equipment for Pressworking Nonferrous Metals and Alloys) Moscow, Metallurgizdat, 1959. 359 p. Errata slip inserted. 4,200 copies printed.

Ed.: G.A. Smolyanov; Ed. of Publishing House: M.R. Lanovskaya;
Tech. Ed.: V.V. Mikhaylova.

PURPOSE: This book is intended as a textbook in tekhnikums for a course on "Mechanical Equipment in Metallurgical Plants". It may also be of value to technical personnel in metallurgical establishments.

COVERAGE: This book is a continuation of the book by V.V. Zholobov, K.N. Bogoyavlenskiy, M.Ye. Zubtsov, A.D. Landikhov, E.M. Lekarenko, N.N. Postnikov: Obrabotka tsvetnykh metallov i splavov davleniyem (Pressworking of Nonferrous Metals and Alloys). Metallurgizdat, 1955. The theoretical assumptions of pressworking and the fundamentals of rolling, drawing, pressing, and forging are discussed. Methods
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Mechanical Equipment (Cont.)

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of determining the pressure of metal in plastic pressworking are presented. Equipment for pressworking of nonferrous metals and alloys is described and examples of rolling mills, die presses, and foundry equipment are given. Cold rolling methods for tubular stock are described in some detail. Information on auxiliary equipment and off-line mechanisms is included. The text contains numerous drawings, photographs, and diagrams. Authors of books given in bibliography are mentioned in the foreword. There are 47 references, all Soviet.

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S/137/60/000/011/022/043
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 11, p. 120,
26170

AUTHOR: Bogoyavlenskiy, K.N.

TITLE: Surface of Roll Contact With the Strip and Additional Forces From
Traverse Bending in a Profilebending Mill

PERIODICAL: Tr. Mezhvuz. nauchno-tekhn. konferentsii na temu: "Sovrem. dostizh.
prokatn. proiz-va", Vol. 2, Leningrad, 1959, pp. 308 - 315

TEXT: A method is proposed to determine the contact surface of rolls with
the strip when bending angle iron and channel bars. It was established by ex-
periments that: a) the lower roll (when bending upward the shelves) contacts
the strip prior to the upper roll; as a result, an additional bending by the
lower roll in respect to the upper roll takes place; b) contact of the strip
with the upper roll takes place on a small area whose axis of symmetry is lo-
cated in the plane passing through the axis of the roll; c) besides the longi-
V

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Surface of Roll Contact With the Strip and Additional Forces From Traverse Bend-
ing in a Profilebending Mill

tudinal bend, transverse bending of the strip occurs, causing additional plastic
deformation in the rectilinear shelves of the profile. As a result, cold harden-
ing of the surface layers spreads over the whole widths of the shelves.

A.N.

Translator's note: This is the full translation of the original Russian abstract.

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KRAUZE, G.N.; BOGOYAVLENSKIY, K.N., kand.tekhn. nauk, retsenzent;
KARPYSHEV, M.S., kand. tekhn. nauk, red.; VASIL'YEVA, V.P.,
red.izd-va; YURKEVICH, M.P., red. izd-va; SPERANSKAYA, O.V.,
tekhn.red.

[Equipment of rolling mills; design, assembly and operation]
Oborudovanie prokatnykh stanov; iz opyta proektirovaniia,
montazha i ekspluatatsii. Moskva, Mashgiz, 1963. 266 p.
(MIRA 16:10)

(Rolling mills--Equipment and supplies)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Stresses during plastic bending with hardening. Trudy LPI
no.222:113-123 '63. (MIRA 16:7)
(Sheet-metal work) (Deformations (Mechanics))

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Investigating metal deformation on a shape bending machine. Trudy
LPI no.222:124-131 '63. (MIRA 16:7)
(Sheet-metal work) (Deformations (Mechanics))

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Initial prerequisites for an efficient grooving of shape-bending
machine rollers. Trudy LPI no.222:140-147 '63. (MIRA 16:7)
(Sheet metal working machinery)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.; POPOV, Ye.B.

Manufacture of thin-walled shapes from titanium and its alloys on
a shape-bending machine. Trudy LPI no.222:148-150 '63.

(MIRA 16:7)

(Titanium) (Sheet-metal work)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Coiling rolled strips on reels. Trudy LPI no.222:196-200 '63.
(MIRA 16:7)

(Rolling mills—Equipment and supplies)

BOGOYAVLENSKIY, Konstantin Nikolayevich; ZHALOBOV, Viktor
Vladimirovich; DERGACHEV, Vladimir Ivanovich; ZUBTSOV,
Mikhail Yefimovich; LANDIKHOV, Aleksandr Denisovich;
POSTNIKOV, Nikolay Nikolayevich; MILLER, L.Ye., red.;
EL'KIND, L.M., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Working nonferrous metals and alloys by pressure] Obra-
botka tsvetnykh metallov i splavov davleniem. [By] K.N.
Bogoiavlenskii i dr. Izd.2.; perer. i dop. Moskva, Me-
tallurgizdat, 1964. 564 p. (MIRA 17:3)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Determining the mechanical properties of sheet materials for the
calculation of cold deformation processes. Trudy LPI no.222:
135-139 '63. (MIRA 16:7)

(Metals—Testing) (Sheet-metal work)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Reducing strip thickness during plastic bending on a shape bending
machine. Trudy LPI no.222:132-134 '63. (MIRA 16:7)
(Sheet-metal work) (Deformations (Mechanics))

BOGOYAVLENSKIY, K.N.; KHOROSHAYLOV, V.G.

Investigating the deformability of the TSAM 10-5 alloy. Trudy LPI
no.234:96-103 '64. (MIRA 17:11)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.; BORISOV, V.G.; ROGACHEV, Yu.D.

Cross stretching of strip in the manufacture of large cold-bent
shapes. Trudy LPI no.238:64-67 '64. (MIRA 17:11)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Calculating the pressure limit on the rolls of a shape bending machine,
Trudy LPI no.238:68-69 '64. (MIRA 17:11)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.; BORISOV, V.G.

Experimental investigation of surface deformations during plastic bending. Trudy LPI no.243:112-117 '65.

(MIRA 18:6)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.

Determining the course of shape forming starting from the plastic properties of the blank and the permissible deformation of the section's side edges. Trudy LPI no.243:118-125 '65. (MIRA 18:6)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.; MEL'NICHUK, O.Ya.; IVANOV, N.P.

Investigating power parameters of rolling on mills with swivel bearings. Trudy LPI no.243:126-131 '65.

(MIRA 18:6)

V L 11218-66 EWP(e)/EWT(m)/EWP(w)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(g)

ACC NR: AT6000927 IJP(c) JD/JG SOURCE CODE: UR/2563/65/000/251/0028/0030

AUTHOR: ^{44 55} Khoroshaylov, V. G.; ^{44 55} Bogoyavlenskiy, K. H.; ^{44 55} Rossomakho, Ya. V.

67
66
61

ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politekhnicheskiy institut)

TITLE: Effect of the annealing temperature and medium on the properties of molybdenum

SOURCE: Leningrad. Politekhnikheskiy institut. Trudy. no. 251, 1965. Metallove-deniye (Metal science), 28-30

TOPIC TAGS: molybdenum, sintered ^{metal} molybdenum, annealing, molybdenum annealing, ~~annealed molybdenum~~ property ^{metal}

ABSTRACT: Cold-rolled strips of 99.9% pure ^{18,44} sintered ^{18,44,55} molybdenum, 150-180 x 0.2 x 400-800 mm, were annealed in a vacuum of $1.5-1.4 \cdot 10^{-2}$ mm Hg or in dry hydrogen ^{27,44,55} at 800-1400C for 45 min to determine the optimum conditions for heat treatment. In the as-delivered condition, molybdenum had a hardness HV of 275-300, a tensile strength of 100-130 kg/mm², and an elongation of 0.5-2%; the microstructure was typical for a cold-worked metal. Annealing lowered the hardness and strength and increased the ductility (see Fig. 1). The decrease in tensile strength and hardness by annealing at 800-950C is associated with the relieving of stresses caused by cold working. The texture disappeared completely after annealing at 1100C; grain growth began at 1200C. Annealing at 1200C for more than 45 min had no additional

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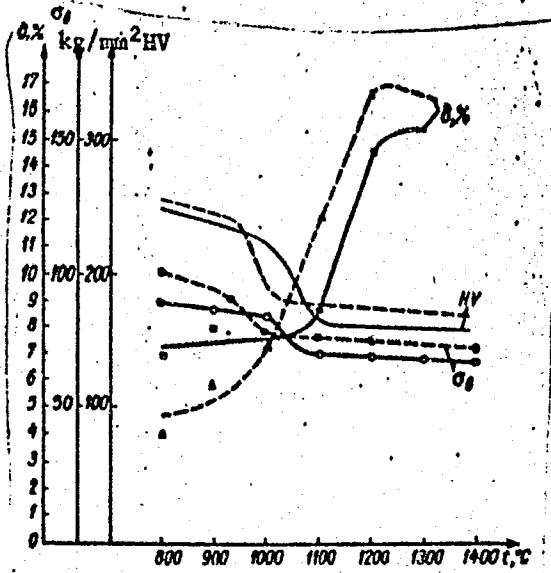


Fig. 1. Effect of the annealing temperature and medium on the properties of molybdenum

— Annealing in hydrogen
 — Annealing in vacuum

effect on the strength and ductility. The temperature of recrystallization for vacuum-annealed metal was 100—150C higher than that for metal annealed in hydrogen; this was attributed to some leak of air through the walls of the quartz ampules at high temperatures. Orig. art. has: 1 figure. [MS]

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L 11248-66

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Card 3/3

L 00867-66 EWT(d)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(c)
LTP/C JD/HW
ACCESSION NR: AT5013065

UR/2563/65/000/243/0132/0137

AUTHOR: Bogoyavlenskiy, K. N., Mel'nichuk, O. Ya., Grigor'yev, A. K.

TITLE: Force patterns in the rolling of foil on a continuous two-stand rolling mill

SOURCE: Leningrad. Politeknicheskii institut. Trudy, no. 243, 1965. Obrabotka metallov davleniyem (Metalworking by pressure), 132-137

TOPIC TAGS: aluminum foil, rolling mill, aluminum rolling, foil production

ABSTRACT: At the Leningradskiy zavod po obrabotka tsvetnykh metallov (Leningrad Nonferrous Metal Works), the rolling of aluminum foil is being carried out for the first time in the Soviet Union in a continuous manner by means of a two-stand rolling mill. A suitable operation of the mill and the correct control and adjustment of its entire system require the knowledge of the various pressures on the rolls. The determination of these pressures was the object of this work. It was found that when the foil is rolled from 0.09 mm to 0.048 mm (width 480 mm), the pressure on the rolls is 47 - 48 t, the specific back tension being 3 - 4 kg/mm², and the specific front tension, 2.5 - 3 kg/mm². When the foil is rolled from 0.048 to 0.025 mm (width 480 mm), the pressure on the rolls is 46 - 47 t, the

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