s/560/62/000/012/011/014 1046/1246

3,5120.

AUTHOR:

Pokhunkov, A.A.

TITLE:

The variation of the average molecular weight of air in night-time atmosphere at altitudes of 100 to 210 km from mass-spectrometric

mensurements

SOURCE:

Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli, no. 12, Moscow. 7462, 133-140

Comparison of mass-spectrometric measurements in the 100 km €h ≤210 km stmospheric layer carried out on an analyzer with a long narrow inlot pipe (1959, recombination in the incoming O1 streem is equal to the recombination in the reflected stream) and on an analyzer with a short wide inlet pipe (1960, minimum recombination in the incoming strom) shows that the actual O1 concentration in the atmosphere is equal to the O1 concentration measured on the analyzer, multiplied by a corrective factor k = 1.60+0.25. Application of this result to the experimental data shows that the relative concentration of O1 increases fivefold between h=100 km and h=210 km (65+20% of N2 concentration at 210 km); the relative concentration of 02 at h=100 km is twice its concentration at

Card 1/2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341620009-5"

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341620009-5

3.5120

\$\\\7560/62/000/013/009/009 1046/1242

AUTHOR:

Pokhunkov, A.

TITLE:

Gravitational separation, composition, and structural parameters of the night-time atmos-

phere at altitudes from 100 to 210 km

SOURCE:

Akademiya nauk SSSR. Iskusstvennyye sputniki

zemli. no.13, Moscow, 1962, 110-118

A 5-stage radiofrequency mass-spectrometer, launched in a rocket on September 23, 1960, at 00:56 local time in intermediate latitudes in the USSR, recorded 101 mass spectra of atmospheric gases at altitudes from 100 to 210 km. The mini-mum registrable current was 4.10-14A. The mass spectra showed

card 1/3

١X

s/560/62/000/013/009/009 1046/1242

Gravitational separation....

peaks at 1,2,12,14,16,17,18,28,29,30,32,34,36,40 and 44 a.m.u., identified with H,H2,C,N,O,OH,H2O,N2,N14N15,NO,O2,O16O18,A36,A40 CO2, and N_2O , respectively. The $I(A)/I(N_2)$ ratio indicates gravitational separation of atmospheric gases at altitudes h> 100 km (at least in the intermediate and subpolar regions); the concentration of N does not exceed 1-2% of N2 at 100 km & h & 210 km; the concentration of N14N15 is (7.6±0.6).10-3 relative to N2 at 100 $km \le h \le 150$ km; the concentration of 016018 is $(4.1\pm0.6)\cdot10^{-3}$ relative to 02 at 100 km = h = 126 km; PH 0 = 3.10-7 mm Hg, i.e., 0.6% of the atmospheric pressure at h 3100 km (maximum partial pressure attained at h-115 km); in the night-time, free OH concentration at h>100 km does not exceed 6.10-3% of all gases; all OH registered by the apparatus is the dissociation product of H2O in

Card 2/3

EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pr-4 JD _S/0293/63/001/001/0147/0155 ACCESSION NR: AP3007344. AUTHOR: Pokhunov, A. A. nitrogen, and argon in the TITLE: On the distribution of helium, terrestrial atmosphere to the height of 430 km SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 1, 1963, 147-155 TOPIC TAGS: gas composition, upper atmosphere, mass spectrometer, spectral range, atomic mass unit, analyzer, rocket axis, mass spectrogram, molecular oxygen, molecular nitrogen, argon, gravitational distribution ABSTRACT: In 1961 the first measurements of gas composition in upper atmospheric layers to the height of 430 km were carried out in the USSR. The rocket was equipped with a MKh6401 mass spectrometer which was able to analyze gases of two spectral ranges: from 1 to 4 and from 12 to 60 atomic mass units. The analyzer of the mass spectrometer was erected parallel to the rocket axis and located beneath a conic cap on the rocket head. The cap was dropped by signal at a height of 100 km and the analyzer was exposed to the atmosphere. Card 1/4 *

L 18189-63 ACCESSION NR: AP3007344

special system telemetered the mass spectrograms to the earth. Analysis of the mass spectrograms showed the presence of ions of N^+ , 0^+ , $N0^+$ and 0^+_2 at heights of 130 to 430 km. The mass spectrograms showed (1.7 \pm 0.8) \cdot 10.3/cm³ He⁺ at a height of 370 km. concentration of these ions increased with height, reaching $(7 \pm 2) \cdot 10^3/\text{cm}^3$. No ion peak with the mass number 4 was recorded at heights from 130 to 370 km. The gases 0_1 , N_2 , 0_2 , and Ar were recorded at heights of more than 130 km. Molecular oxygen, 02, was found at a height of 200 km. Neutral N_2 was found up to heights of 300 km. The distribution of N_2 concentration is determined by the barometric formula, and atmospheric temperature is computed using transformed formulas. Numerical results are given in tabular form. Neutral nitrogen molecules make up a high percentage of the atmospheric contents and are there in the undissociated state. The gases in the upper layers form gravitational distribution layers. author thanks B. A. Mirtov and S. M. Poloskov for their unceasing concern with this work and the discussion of the results, M. N. Isakov for his useful criticism, and A. A. Perno, S. V. Vasyukov, G. I. Podsablyayeva, P. F. Starostina, and S. V. Gorbunov for their help in preparation of this paper. Orig. art. has: 1 table, 4 card 2/4

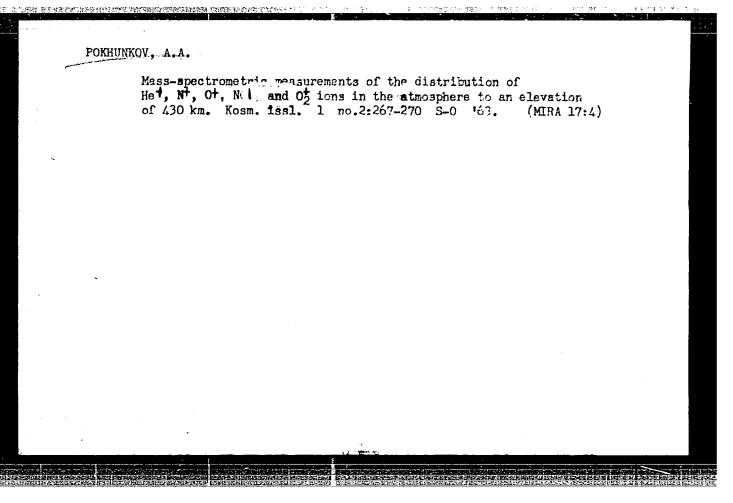
L 18189-63
ACCESSION NR: AP3007344

figures, and 15 formulas.

ASSOCIATION: none

SUBMITTED: 25Dec62 DATE ACQ: 210ct63 ENCL: 01

SUB CODE: AS NO REF SOV: 008 OTHER: 008



S/203/63/003/002/008/027 D207/D307

AUTHOR:

Pokhunkov, A.A.

TITLE:

On the possibility of measuring the absolute concentrations of atomic gases in the upper atmosphere

with a radio-frequency mass spectrometer

PERIODICAL:

Geomagnetizm i aeronomiya, v. 3, no. 2, 1963, 252-

When the absolute concentrations of atomic gases are measured at heights above 100 km it is necessary to correct for the possible recombination of atoms at the inner surfaces of the massspectrometer analyzer. The present paper gives a theoretical derivation of the correction coefficient which allows for this recombination. The calculated and experimental values of the correction coefficient were found to be in agreement. It is also shown that a radio-frequency mass spectrometer with an analyzer similar to MX6403 (MKh6403) can be used to investigate not only the composition of chemically inert gases (such as N2, Ar, CO2, O2, He, Ne, H2, H20)

Card 1/2

S/203/63/003/002/008/027 D207/D307

On the possibility of measuring ...

but also for accurate quantitative measurements on chemically active atomic components of air at high altitudes. Acknowledgements are made to B.A. Bagaryatskiy, B.A. Mirtov and S.M. Poloskov for valuable advice, and to G.I. Podsoblyayeva for carrying out the numerical calculations. There are 5 figures.

ASSOCIATION:

Institut prikladnoy geofiziki (Applied Geophysics

Institute)

SUBMITTED:

October 10, 1962

Card 2/2

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341620009-5

ACC NR: AT6023726

SOURCE CODE: UR/2831/65/000/014/0026/0040

AUTHOR: Pokhunkov, A. A.

4/5

ORG: none

B+/

TITLE: Mass-spectrometric measurements of the neutral composition of the earth's atmosphere at altitudes of 100-430 km

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. V razdel programmy MGG: Ionosfera. Sbornik statey, no. 14, 1965. Ionosfernyye issledovaniya, 26-40

TOPIC TAGS: geophysic rocket, atmospheric ion concentration, atmospheric sampling, mass spectrometry

ABSTRACT: Results are given of four experiments carried out to study the neutral composition of the atmosphere with mass-spectrometers launched on geophysical rockets. The measurements were made in the middle latitudes of European Soviet Union at altitudes of 94 to 211 km during July 1959, 100—210 km during September 1960, and 130—430 km in November 1961. An analysis of the results showed that gravitational separation of the Ar and N₂ gases occurs in the atmosphere above 105—110 km. The main component determining the density of the atmosphere up to heights of about 280 km is molecular nitrogen. Atomic

Card 1/3

L 00806-67 ACC NR: AT6023726

nitrogen up to 210 km is present in the atmosphere in a quantity less than 2% of the concentration of molecular nitrogen. The existence of atomic oxygen in the atmosphere above 100 km was confirmed experimentally; its distribution was obtained, and above 120 km it corresponds to gravitational separation between O₁ and N₂. It becomes the predominating atmospheric component with respect to density above about 280 km. Molecular oxygen is present in the atmosphere above 100 km, and its altitude distribution corresponds to gravitational separation between O_2 and N_2 . The altitude distribution of the absolute concentrations of N_2 . O2, and O1, of the average molecular weight, density, temperature, and pressure in the atmosphere in the 100-210 km range was obtained for middle latitudes in the experiment carried out at midnight in September 1960. The distribution of the N_2 concentration and temperature of the atmosphere in the 130-430 km range was derived. An increase of atmospheric temperature from 230K at 100 km to about 1500K at 325 km was experimentally confirmed. The limiting values of the concentrations of minor atmospheric admixtures (NO, H2O, OH, H1, H2, and He) were determined. The value of NO did not exceed 0.1% of the concentration of N2 in the 130-180 km range; the maximal value of the partial pressure of H₂O at 115 km did not exceed 3·10⁻⁷ mm Hg, or 0.6% of the total atmospheric pressure; the content of the hydroxyl OH above 100 km did not exceed 6.10-3% of the total atmospheric pressure; the concentration of H₁ had a value of the order of 10⁸ particles/cm³; the concentration of $\rm H_2$ above 100 km was $3\cdot 10^7$ particles/cm³; and the content of $\rm He^+$ ions in the 100—210 km range did not exceed 10^2 ions/cm³. At 100—130 km magnesium oxide of meteoric

Card 2/3

	Toninad halfun	n Ho ⁺ was de	tented abov	re 370 km	0 km. Orig. art. h		nas: 3 tables	
and 8 figures.	Tomzed neman	TITO MEDIC					•	
SUB CODE: 98/	SUBM DATE:	none/ ORI	G REF: 02	5/ OTH	REF: 014			
					#			•
						:		
		•						'
						11		
111-121-111-1		*				* • *		
							•	
							•	
	•						•	
Card 3/3 vlr		** : ·			Ph. 1		1	

POKHVALINSKIY, S.N.

Standardization at the "Krasnoe Sormovo" Plant. Standartizatsiia

29 no.3:56-58 Mr 165.

l. Nachal'nik otdela standartizatsii i normalizatsii na zavode "Krasnoye Sormovo".

POKHVALENSKIY, V.F.

POKHVALENSKIY, V.P.: Investigation of a farm continuous milking line". Moscow, 1955. Joint Academic Council, All-Union Sci Res Inst for the Mechanization of Agriculture; and All-Union Sci Res Inst for the Electrification of Agriculture. (Dissertations for the Degree of Candidate of Technical Sciences).

SO: Knizhnava letopis' No 45, 5 November 1955. Moscow.

BREMER, G.I., doktor tekhn.nauk, prof.; GALDIN, M.V., inzh.; DEMIN, A.V., kand.tekhn.nauk; ZYABIOV, V.A., kand.tekhn.nauk; KAPLUNOV, M.M., inzh.; KASHEKOV, L.Ya., inzh.; KOROLEV, V.F., kand.tekhn.nauk; KRASHOV, V.S.; KULIK, M.Ye., kand.tekhn.nauk; MAKAROV, A.P., inzh.; NOVIKOV, G.I., kand.tekhn.nauk; NOSKOV, B.G., inzh.; OLENEV, V.A., kand.vet.nauk; OSTANKOV, V.P., inzh.; PERCHIKHIN, A.V., inzh.; POKHVALENSKIY, V.P., kand.tekhn.nauk; SERAFIMOVICH, L.P., kand.tekhn.nauk; SWIRNOV, V.I., kand.tekhn.nauk; URVACHEV, P.N., kand.tekhn.nauk; FADEYEV, N.N., inzh.; FATEYEV, Ye.M.; KRYUKOV, V.L., red.; VESKOVA, Ye.I., tekhn.red.

[Reference book on the mechanization of stock farming] Spravochnaia kniga po mekhanizatsii zhivotnovodstva. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 678 p. (MIRA 10:12)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Krasnov, Fateyev).

(Farm equipment) (Stock and stockbreeding)

POKHVALIN, fnu

Physicians

Aleksandr Anatol'evich Martinkevich; an obituray. Pokhvalin and others., Vest. ven. i derm., No. 1. 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1952. 1953, Uncl.

SPERANSKAYA, Ye.F.; POKHVALITOVA, T.G.

Conditions for the formation of H2W. Zhur.neorg.khim. 10 no.11:2393-2395 No. 65. (MIRA 18:12)

1. Kazakhskiy gosudarstvennyy universitet. Submitted May 5, 1964.

Fortieth anniversary of the Soviet Red Cross. Zerr. Kos. Feder. 2 no.11:3-9 H '58 (MIR 11:12)

1. Predsedstel' TSentral'nogo komiteta Obshchestva Krasnogo Kresta RSFSR. (RED CROSS)

PORHVALIN, V.P. (Moskva)

Sanitation group in the factory. Sov.zdrav. 17 no.11:27-31 M*58
(MIRA 11:10)
(INDUSTRIAL HYGIENE,
in Russia (Rus))

POKHVALOV, Yu. Ye.; KRONIN, I. V.; KURGANOVA, I. V.

"Investigation of single-phase convective heat transfer in tube with high heat fluxes (to 21 x 10^6 kcal/m² hr) for water and ethyl alcohol."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

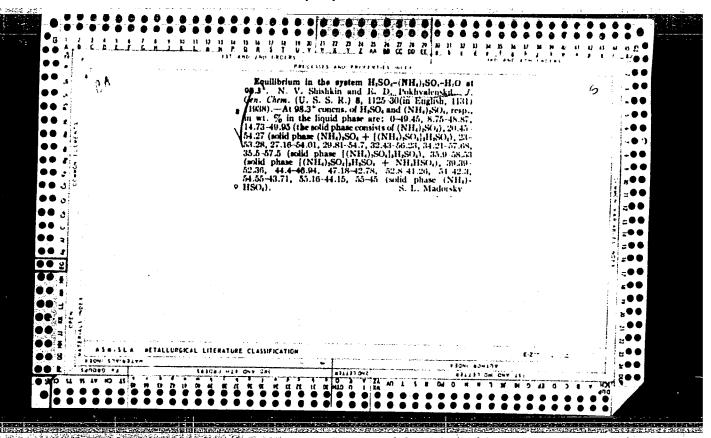
Moscow Engineering & Physical Inst.

SOLOMAKHIN, I.S., kandidat tekhnicheskikh nauk; POKHVISHEV, A.H., professor, doktor tekhnicheskikh nauk. Some problems of the kinetics of iron ore reduction. Shor. Inst. stali no.35:376-388 '56. (MIRA 10:00) (MLBA 10:8) 1. Kafedra metallurgii chuguna. (Iron-Metallurgy) (Iron oxides)

POKHVISHEV, A.N., doktor tekhn. nauk, prof.; SAVEL'YEV, B.A., inzh.

Mechanism of pellet hardening during the roasting process [with summary in English]. Stal' 18 no.2:105-109 F '58. (MIRA 11:3)

1. Moskovskiy institut stali. (Sintering)



POKHVALIN, V. In the governmental manner. Voen. znan. 41 no.1:16-17 Ja '65. (MIRA 18:2) 1. Predsedatel' TSentral'nogo komiteta Obshchestva Krasnogo Kresta RSFSR.

POKHVALIN, V.P.

For joint operations. Zdrav. Ros. Feder. 1 no.1:10-14 Ja '57.

(MIRA 11:2)

1. Fredsedatel' TSentral'nogo komiteta obshchestva Krasnogo Kresta RSYSE.

(RED CROSS)

POKHVALIN, V.P.

Permanent committees of public health and social security of local soviets of workers' deputies. Sov. zdrav. 18 no.3:63-64

(MIRA 12:3)

(SOVIETS) (PUBLIC HEALTH)

KOBO ORTS, Kh. [Cobo Orts, J.]; PIKUS, Z.R.; POKHVALINA, I.M.;

TSIMMERMAN, M.G.; TURBIN, T.N., retsenzent; VOSKOBOTNIK, D.I.,
doktor tekhn.nauk, nauchnyy red.; PUTCH-TORRES, Kh. [Puig Torres, J.],
insh., red.; SOBOLEVA, N.M., tekhn.red.

[Concise Spanish-Russian and Russian-Spanish scientific and technical dictionary] Kratkii ispansko-russkii i russko-ispanskii nauchno-tekhnicheskii slovar'. Hauchn.red. D.I.Voskobolnik. Red.K.Puich-Torres. Moskva, Akad.nauk SSSR, In-t nauchn.informatsii, 1960. 438 p.

(MIRA 13:10)

(Spanish language--Dictionaries--Russian)
(Russian language--Dictionaries--Spanish)
(Technology--Dictionaries)

POKHVALINSKANA, E.P.,
E. V. BRITZKE, (Trans. Sci. Inst. Fertilisers, Moscow, 1928,
No. 51, 5-79)

POKHVALINSKAYA, E. P.,
E. V. BRITZKE, (Fertilisers and Yields, Russia, 1929, 69-71)

POKHVALITOVA, T.G.; SPERANSKAYA, Ye.F.

Reaction of compounds of the sixth group of elements with mercury. Part 1: Molybdenum. 1zv. vys. ucheb. zav.; khim. i khim. tekh. 8 no.1:11-16 '65. (MIRA 18:6)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, kafedra analiticheskoy khimii.

ACC NR: AP7012428

SOURCE CODE: UR/0075/66/0217009/1033/1041

AUTHOR: <u>Pokhvalitova</u>, T. G.; Speranskaya, Ye. F. -- Speranskaya, E. F.; Nasonkina, N. M.

ORG: Kazakh State University im. S. M. Kirov, Alma-Ata (Kazakhskiy gosudarstvennyy universitet)

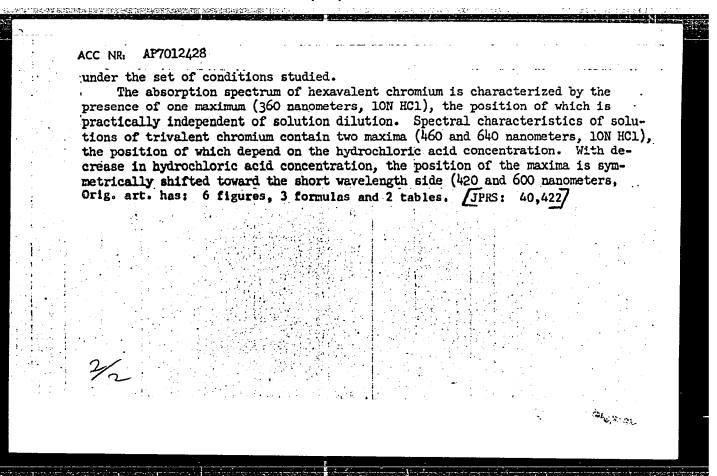
TITLE: Kinetics of the reactions of hexavalent chromium with metallic mercury

SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 9, 1966, 1033-1041

TOPIC TAGS: chromium, mercury, chemical reduction

SUB CODE: 11,07

ABSTRACT: The kinetics of the reduction of chromium (VI) by mercury in solutions of various acids was investigated. Data are presented for hydrochloric and sulfuric acids. The solutions studied were thermostated at 20± 0.5°. In the course of reduction, the potentials of mercury and the solutions were measured by the compensation method (R-307 potentiometer). The amount of reduced chromium was determined as the difference between the amount of chromium (VI) originally presented and that remaining in the solution. The form of the chromium in solution was found by spectrophotometric analysis. Spectral characteristics of the original solutions of bi-, tri-, and hexavalent chromium were recorded in advance Cord 1/2



POKHVALOV, Ye.P., inzh.

Greater use of advantages derived from standardization in shipbuilding. Sudostroenie 29 no.1:58-61 Ja '63. (MIRA 16:3) (Shipbuilding)

AUTHOR:

Pokhvalov, Ye.P., Engineer SOV/28-58-6-5/34

TITLE:

A Plan of Work on Standardization and Normalization in Ship Building (Plan rabot po standart-

izatsii i normalizatsii v sudostroyenii)

PERIODICAL:

Standartizatsiya, 1958, Nr 6, pp 22-26 (USSR)

ABSTRACT:

In the ship building industry of the USSR, during the years 1959-1965, more than 1,500 state standards are to be developed. They concern the parameters and powers of mechanical installations on ships: mechanical and electrotechnical equipment, ship hulls, compartments, fastening of devices, insulation, etc. Life boats will be manufactured from light alloys and plastics which may be used for several types of ships. Electric winches, furniture for ship compartments, turbine and diesel generators for electric power, stantions on ships, condensation and boiler pumps, high-pressure and electric equipment, etc. will also be standardized. For the materials used, as well as for tech-

Card 1/2

SOV/18-58-6-5/34

A Plan of Work on Standardization and Normalization in Ship Building

nological devices applied in ship bilding, standards should also be developed. Some organizations should be centralized.

ASSOCIATION:

Godudarstvennyy komitet po sudostroyeriyu (State Committee for Ship Building)

Card 2/2

POKHVIDOV, Ya.S.; SERBINOVSKIY, G.V.

Power circuits for high buildings. Elektrichestvo, '52, Ho.11.
11-16.
(EEA 56, no.666:2453 '53)

POKHODUN, Timofey Dmitriyevich; KARELIN, V.F., retsenzent;
POKHVALOV, Ye.P., retsenzent; RYBALKO, B.V., nauchn.
red.; VLASOVA, Z.V., red.

[Standardization in shipbuilding] Standartizatsiia v
sudostroenii. Leningrad, Sudostroenie, 1965. 179 p.

(MIRA 18:7)

POKHVALOV, Yu.Ye., inzh.; KRONIN, I.V., inzh.; KURGANOVA, I.V., inzh.

Heat transfer during the boiling of underheated water in pipes. Teploenergetika 10 no.11:74-80 N 163.

(MIRA 17:1)

1. Moskovskiy inzhenerno-fizicheskiy institut.

	L 25435-66 EPF(n)-2/EWT(1)/EWT(m)/ETC(f)/EWG(m) WW/GS ACC NR: AT6005821 SOURCE CODE: UR/0000/65/000/000/0137/0142
	AUTHORS: Pokhvalov, Yu. Ye.; Kronin, I. V.; Kurganova, I V. B+1
	ORG: none
	TITLE: Results of investigation of the average heat transfer in forced convection in a tube and at high thermal loads
	SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Nekotoryye voprosy fiziki i tekhniki yadernykh reaktorov (Some problems in the physics and engineering of nuclear reactors). Moscow, Atomizdat, 1965, 137-142
	TOPIC TAGS: heat transfer, boiling, convective heat transfer, water, ethyl alcohol
大きのできるというというです。 はないできるというとは、これできるというできる。 はいているというというできるというできる。 はいているというというできる。 はいているというというできる。 はいているというというというというというというというというというというというというというと	ABSTRACT: The apparatus described in detail in a companion paper (MIFI, Nekotoryye voprosy fiziki i tekhniki yadernykh reaktorov, Atomizdat, 1965, 112 126; Acc. AT605819) was used in the investigations. The measurements were made with distilled water (hardness 0.5 1 µg-eq/l; alkalinity 20 µg-eq/l; dry residue 0.1 mg/l) and rectified ethyl alcohol (95% by volume). The cleanliness of the
	Card 1/2
A. 101	

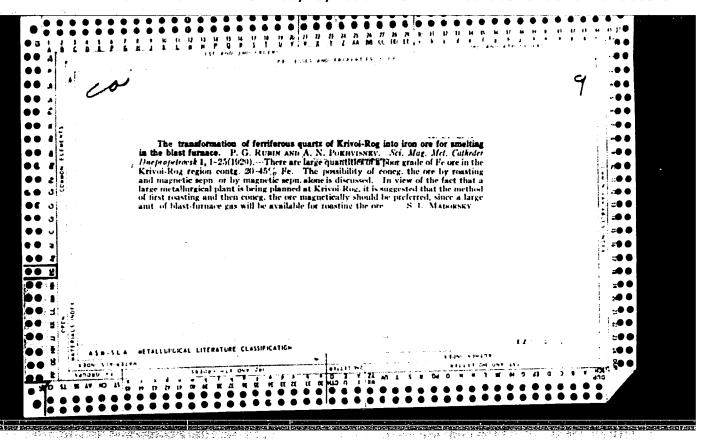
	25435 - 66	
51.5	C NR: AT6005821 $\mathcal O$ rface and the parameters of the water and the density of the alcohol	
we.	re periodically monitored. The tests were made within the follow-	
110	g limits: heat load 0.232 24.4 MW/m ² , pressure 1.5 90 bar, quid velocity 123 m/sec, water temperature 18 2730, ethyl	
Proto	cohol temperature 18 192C, Reynolds number 10 ⁴ 0.827 x 10 ⁰ , andtl number 18 0.87. The results are tabulated and are found be in fair agreement with the empirical formulas of V. V. Yakovlev tomnaya energiya, v. 8, 3, 250, 1960 and v. 2, 2, 179, 1957), but	
de i	viate greatly from the formulas of M. A. Mikheyev (Teploperedacha teplovoye modelirovaniye [Heat Transfer and Thermal Simulation], scow, AN SSSR, 1959, p. 122). Orig. art. has: 1 figure, 2 formulas,	
de i Mo	viate greatly from the formulas of M. A. Mikheyev (Teploperedacha teplovove modelirovanive [Heat Transfer and Thermal Simulation],	
de i Mo an	viate greatly from the formulas of M. A. Mikheyev (Teploperedacha teplovoye modelirovaniye [Heat Transfer and Thermal Simulation], scow, AN SSSR, 1959, p. 122). Orig. art. has: 1 figure, 2 formulas, 1 table.	
de i Mo an	viate greatly from the formulas of M. A. Mikheyev (Teploperedacha teplovoye modelirovaniye [Heat Transfer and Thermal Simulation], scow, AN SSSR, 1959, p. 122). Orig. art. has: 1 figure, 2 formulas,	
de i Mo an	viate greatly from the formulas of M. A. Mikheyev (Teploperedacha teplovoye modelirovaniye [Heat Transfer and Thermal Simulation], scow, AN SSSR, 1959, p. 122). Orig. art. has: 1 figure, 2 formulas, 1 table.	
de i Mo an	viate greatly from the formulas of M. A. Mikheyev (Teploperedacha teplovoye modelirovaniye [Heat Transfer and Thermal Simulation], scow, AN SSSR, 1959, p. 122). Orig. art. has: 1 figure, 2 formulas, 1 table.	

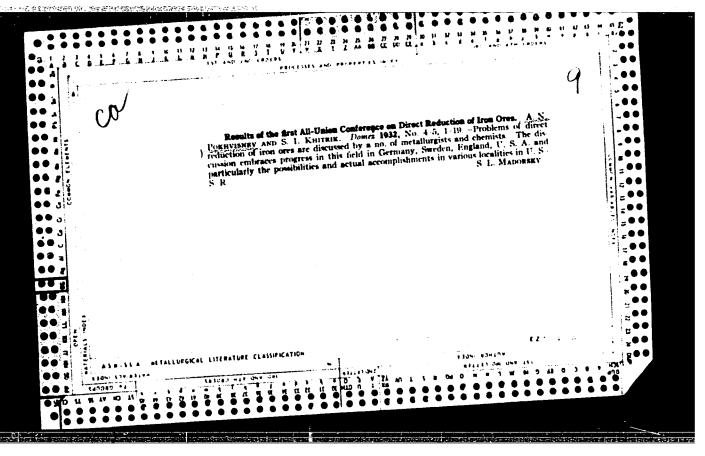
L 25436-66 EPF(n)-2/EWT(1)/EWT(m)/ETC(f)/EWG(m) WW/GS ACC NR: AT6005819 SOURCE CODE: UR/0000/65/000/000/0112/0126	
AUTHORS: Pokhvalov, Yu. Ye.; Kronin, I. V.; Kurganova, I. V. 8+1	
ORG: none TITLE: Investigation of heat transfer from boiling underheated water	
SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Nekotoryye voprosy fiziki i tekhniki yadernykh reaktorov (Some problems in the physics fiziki i tekhniki yadernykh reaktorov, Atomizdat, 1965, 112-126 and engineering of nuclear reactors), Moscow, Atomizdat, 1965, 112-126	
TOPIC TAGS: boiling, heat transfer, nuclear reactor technology, nuclear reactor coolant	
ABSTRACT: In view of the lack of reliable data on the prospects of forced cooling of reactors with underheated liquids boiling in tubes, forced cooling of reactors with underheated liquids boiling in tubes, forced cooling of reactors with underheated liquids boiling in tubes, forced cooling of reactors with underheated liquids boiling in tubes, forced cooling of reactors with provisions for continuing monitoring the cleanliness conditions, with provisions for continuing monitoring the cleanliness of the heat-transfer surface. To this end they designed, constructed, of the heat-transfer surface. To this end they designed, constructed, and tested an experimental setup consisting of a closed circulating	2
Card 1/2	

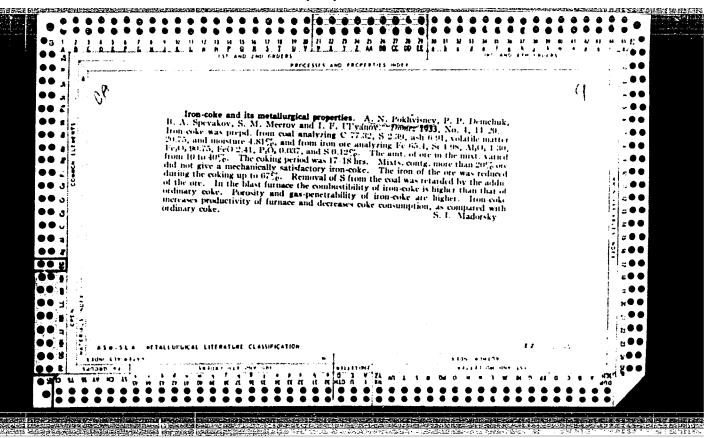
_L_25436-66	
ACC NR: AT6005819	3
loop of stainless steel, with a set of control instruments, automatic regulation devices and protective equipment. The main units are a specially developed stainless steel pump and a working channel with transfer results at various pressures are presented. The experiments were made over a wide range of heat flux, velocities, and underheatings, and yielded various relations between the heat flux and the superheating of the tube walls. Empirical relations for the results sented to approximate the experimental data. The results are compared with the data obtained by others. Orig. art. has: 7 figures	
SUB CODE: 18 / SUBM DATE: 05Jun65/ ORIG REF: 014/ OTH REF: 004	
[1]	
	^
Card 2/2 (0)	

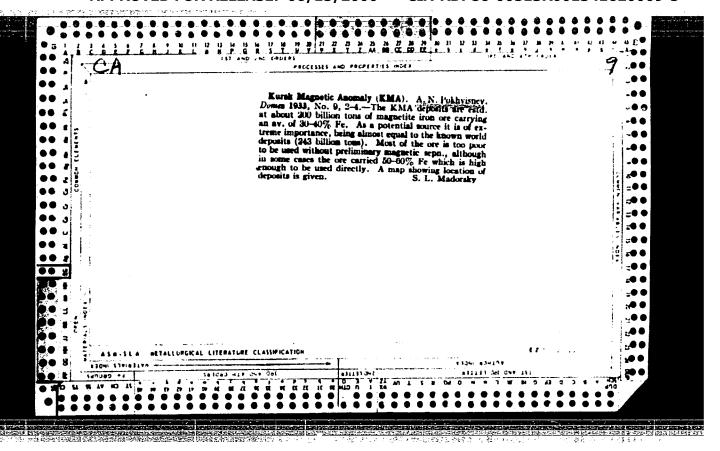
	AN ANN CHUNNING CHUNN CHUN Chunn Chunn Ch	
	L 25434-66 EPF(n)-2/EWP(j)/EWT(1)/EWT(m)/ETC(f)/EWG(m) IJP(c) RM/WW/GS ACC NR: AT6005820 SOURCE CODE: UR/0000/65/000/000/0127/0136	
	AUTHORS: Pokhvalov, Yu. Ye.; Kronin, I. V.; Kurganova, I. V. 63 ORG: none	
	TITLE: Investigation of heat transfer during boiling of underheated ethyl alcohol in a tube	
	SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Nekotoryye voprosy fiziki i tekhniki yadernykh reaktorov (Some problems in the physics and engineering of nuclear reactors). Moscow, Atomizdat, 1965, 127-	
	TOPIC TAGS: ethyl alcohol, boiling, heat transfer, heat exchange,	
	ABSTRACT: An experimental test loop described in a companion paper in the same source (MIFI, Nekotoryye voprosy fiziki i tekhniki yadernykh reaktorov, Atomizdat, 1965, 112 165; Acc. AT605819) deposit formed on the tube walls as a result of decomposition of the	
	Card 1/2	
1971		

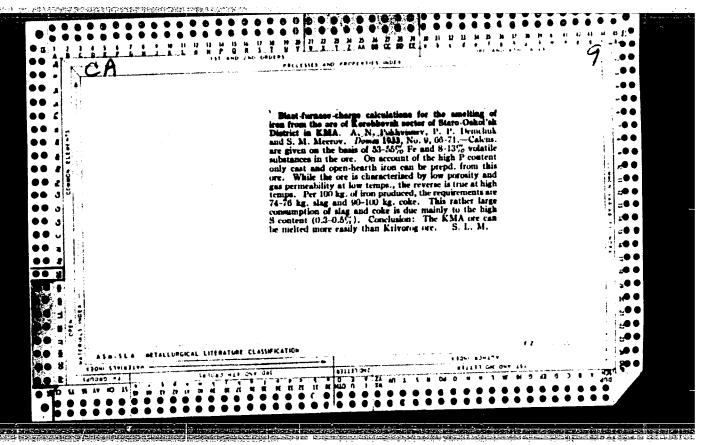
L 25434-66 ACC NR: A	1 6005820					
results of pressures of 0.232 to 5. from 20 to empirical for the test results of pressures of the test results of pressures of the test results of pressures of the test results of the test results of pressures of the test results of the test results of pressures of the test results of pressures of the test results of the test results of pressures of the test results of the test results of the test results of pressures of the test results of pressures of the test results of the	measurements oranging from 1.8 MW/m ² , veloce 235C are presection.	ted periodic clity of the resof the heat transfer to 60 bars and cities 1 23 ented in the for the experiment th the two formulas.	insfer from t heat load m/sec, and orm of graph	test scheethyl ale ing rang liquid to s. Two	edule and cohol at ing from emperatur general	l 'e
SUB CODE: 2		: 05Jun65/ OR	IG REF: 012,	∕° OTH REF	7: 002	
Card	2/2 (LC					

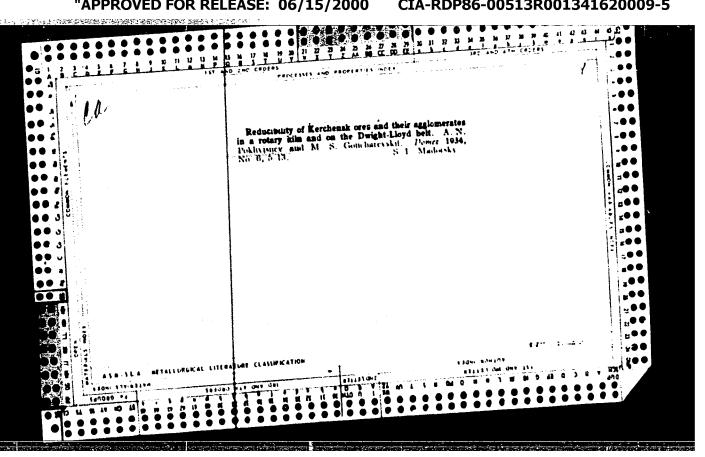


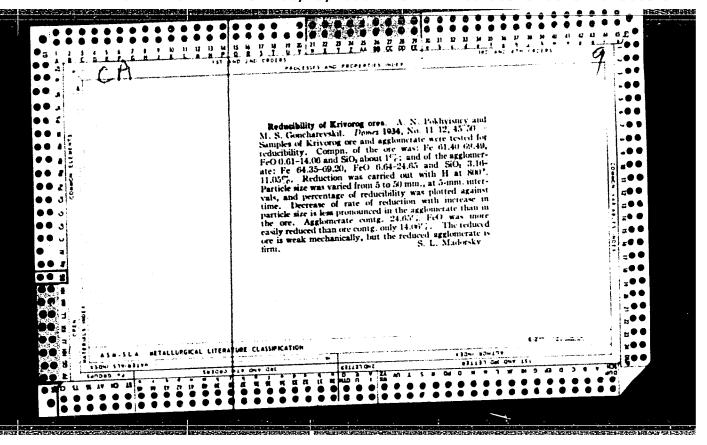












POKHVISNEV, A.N.; SAYED MUKHAMED ABDEL! RASSUL!

Kinetics of the reduction of iron oxides. Izv. vys. ucheb. zav.; chern. met. 6 no.3:34-39 163. (MIRA 16:5)

 Moskovskiy institut stali i splavov. (Iron—Metallurgy)

POKHVISNEV, A.N.; YUSFIN, Yu.S.

Investigating the process of magnetizing roasting of Kerch Peninsula brown ore. Report no. 1. Izv wys. ucheb. zav.; chern. met. 5 no.9: 49-53 162. (MIRA 15:10)

l. Moskovskiy institut stali i splavov.
(Kerch Peninsula—Iron ores) (Ore dressing)

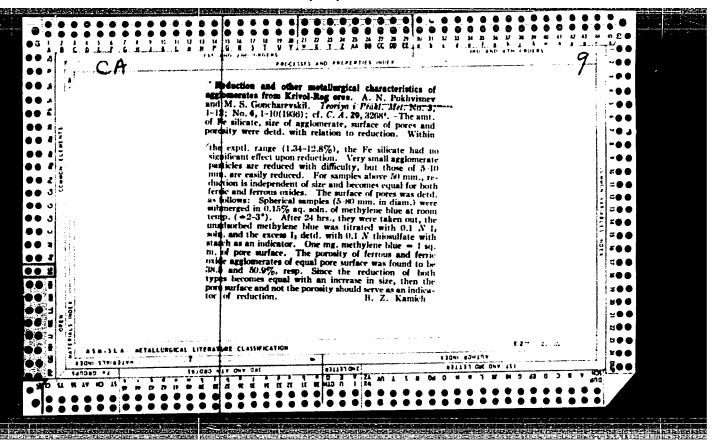
PORTYTONEY, A.H.

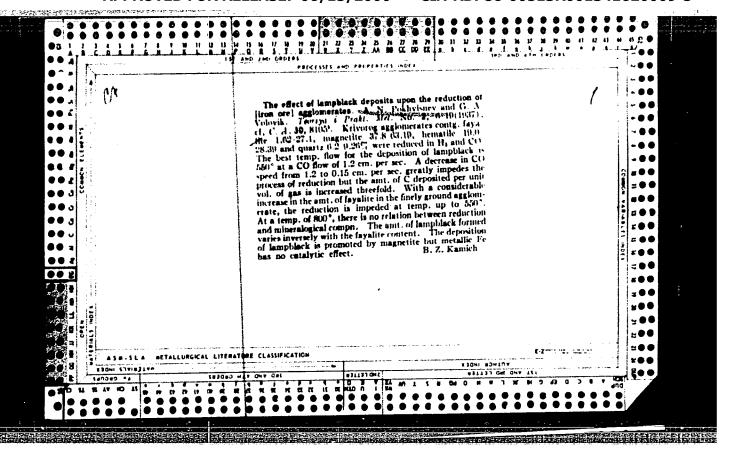
PONNISTEV, 1.N. and GONCHEREVSKII, M.S. Vösstenovimost' zholeznykh rud Krivogo Roge, v sviezi s ikh fizicheskimi i mineralogicheskimi kherakteristikani. /2. izd./. Kherikov, Gos. nauchn.-tekhn. izd-vo Ukrainy, 1936. 156 p. (Dnepropetrovskii institut metallov).

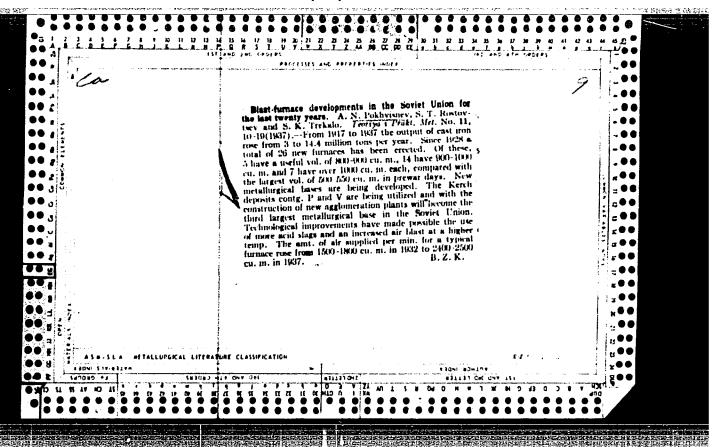
DIC: TN405.R92K73

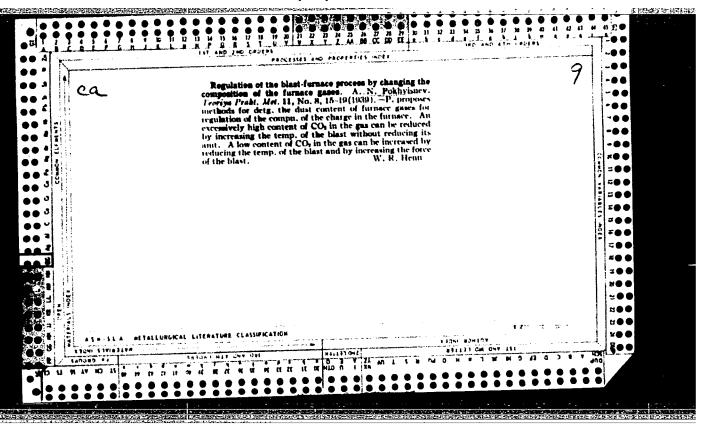
1936

SO: IC, Soviet Geography, Part I, 1951, Uncl.









PAVLOV, Mikhail Aleksandrovich, akademik; POKHVISNEV, A.N., redaktor; VAVNSHTEVN, Ye.B., tekhnicheskiy redaktor

[Metallurgy of cast iron] Metallurgiia chuguna. 4-e izd. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii. Pt.1 [Introduction. Raw materials] Vvedenie. Syrye materialy. 1955. 212 p. (MIRA 8:7) (Cast iron)

SOV/137-57-11-21042

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 60 (USSR)

AUTHORS: Solomakhin, I.S., Pokhvisnev, A.N.

TITLE: Some Problems of Iron ore Reduction Kinetics (Nekotoryye

voprosy kinetiki vosstanovleniya zheleznykh rud)

PERIODICAL: V sb.: Proiz-vo stali. Moscow, Metallurgizdat, 1956, pp

376-388

ABSTRACT: The results of determination of the reducibility of certain

types of ores are presented. Anamorphic conversion of the reduction curves by means of a parabolic equation permits identification of the kinetic, transitional, and diffusive reduction intervals. It is recommended that reducibility be described by the value of the angular coefficient of the anamorphic straight line. It is shown that the transition from reduction in one region to startly an area to be a section of the startly and the startly area.

reduction in one region to another involves changes in the apparent energy of activation.

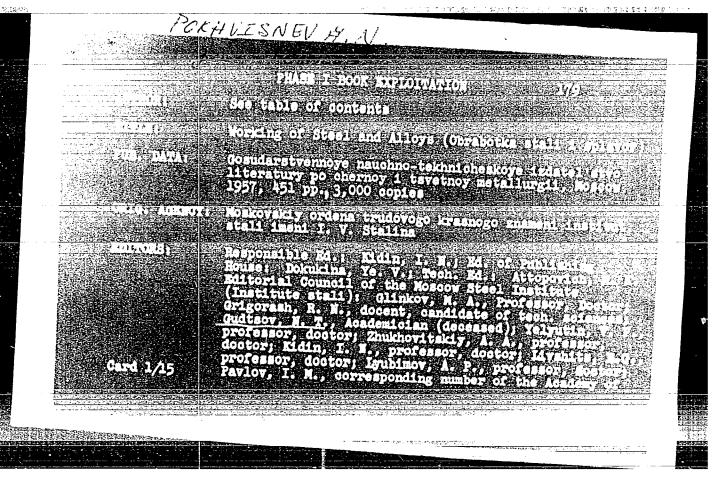
Card 1/1 A.P.

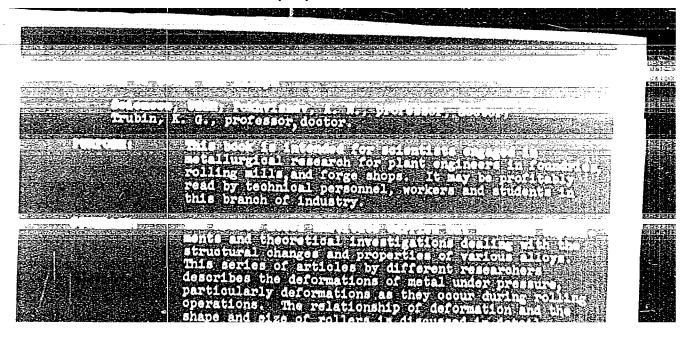
POKHVISHEV, A.N., professor, dektor tekhnicheskikh nauk.

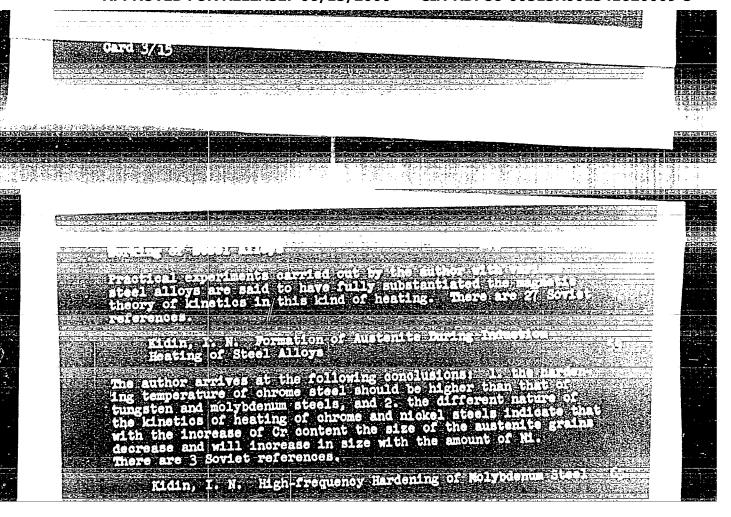
The Moscow Institute of Steel. Metallurg no.4:8-9 Ap '56.
(MERA 9:9)

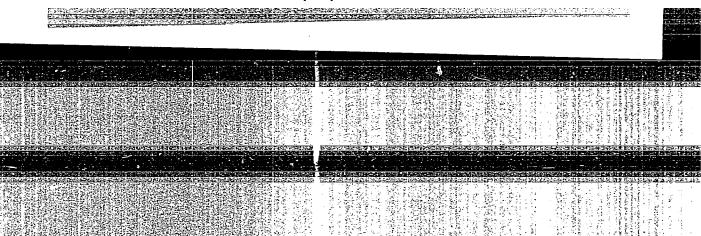
1.Zaveduyushchiy kafedrey metallurgii chuguna Moskovskego
institute.
(Steel--Metallurgy)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341620009-5





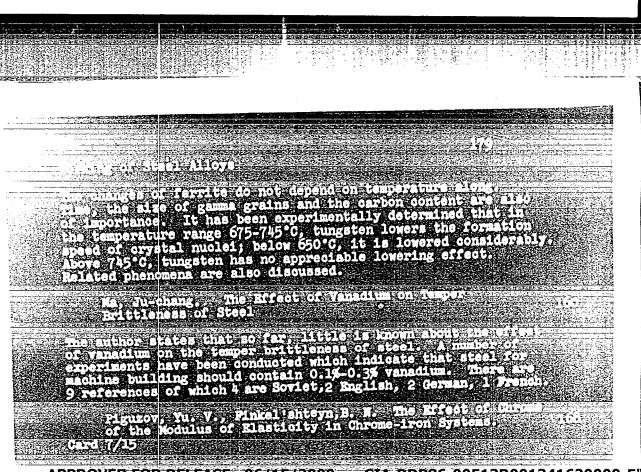


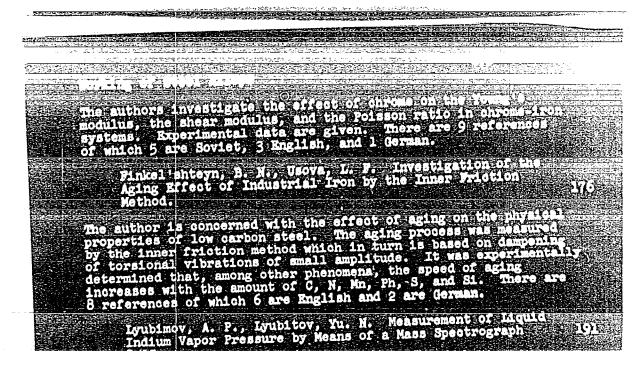


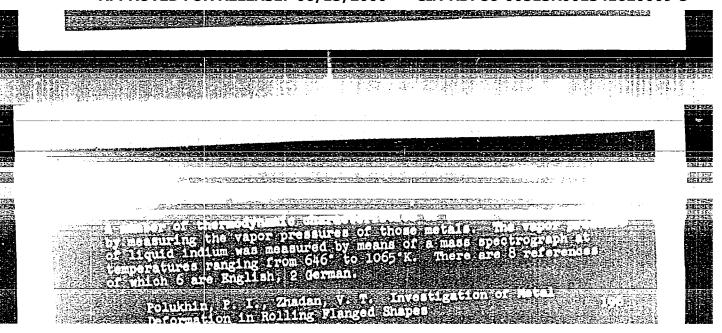
```
List the identics of induction heating of molysdoms and the induction heating of molysdoms and the induction heating of molysdoms and induction heating of molysdoms and induction heating of molysdoms and the properties of Michael Study of Structural makes and the Properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Study of Structural makes and the properties of Michael Michael Study of Structural makes and the properties of Michael Michael
```

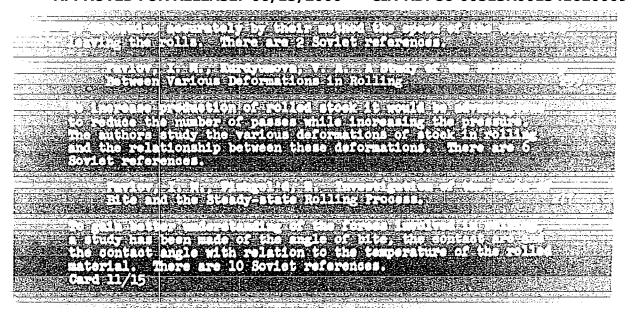
```
This is an investigation of Felexation and Televitilities to ten mickel alloys containing by, Ai, Mi, No, V, B. Inerest of vision of are Soviet, 2 German, 1 USA

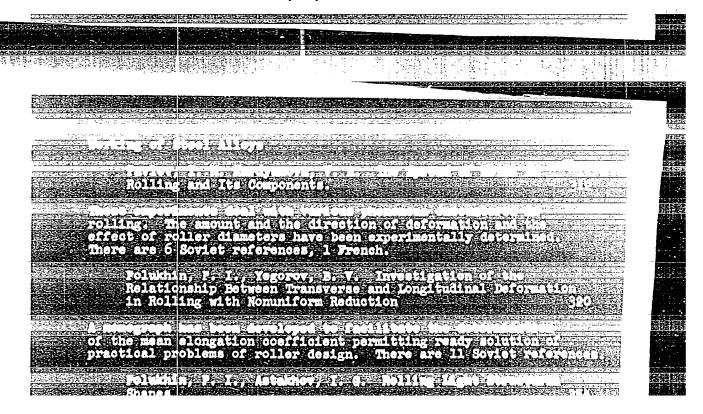
Visingskov, D. Ya., Olikhovoy, Ji S., The Effect of New York and Zirconium on Embrittlement of Chrome Steel in Temperist of the temper by its on the development of the temper by its on experiment was to determine the effect of No, W, V, Nb, Ind. 21 on the temper brittleness of chrome Steel in tempering. There are brittleness of which 6 are Soviet, 3 USA, 1 German, and 1 French.
```

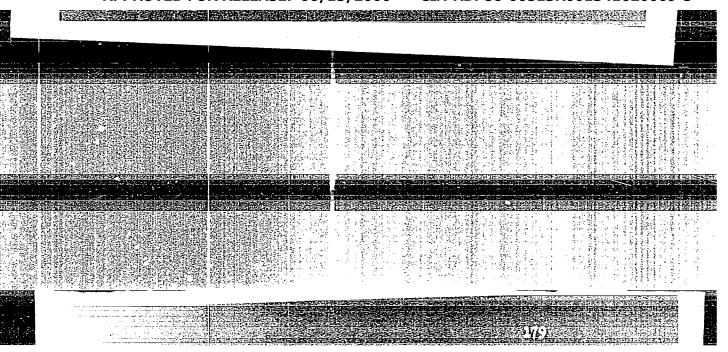


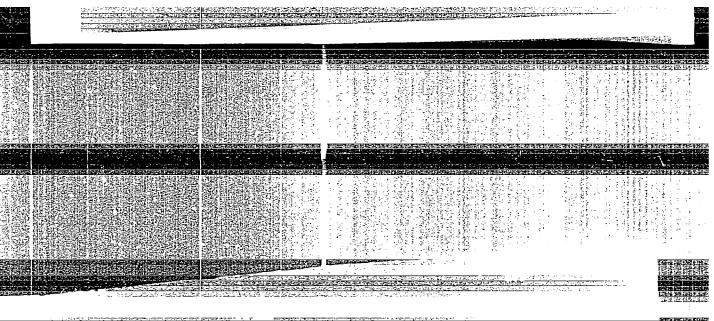


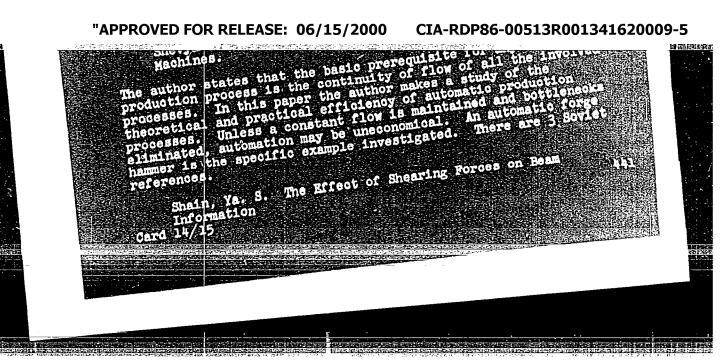




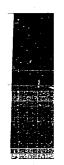


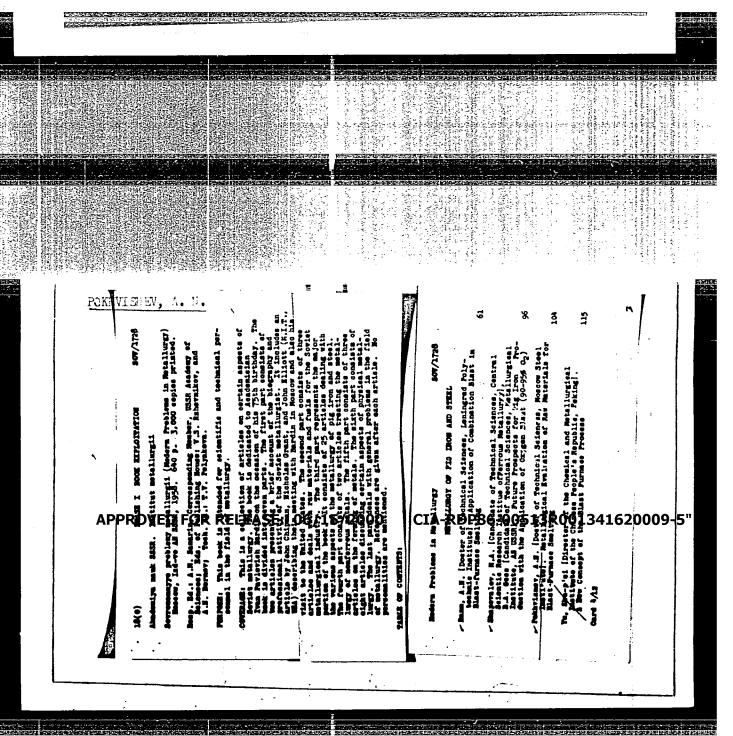






The author investigates the effect of shearing excitons. The author wooden beams and steel beams of various cross sections. The author wooden beams and steel beams of various coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempts to give accurate values for the coefficient K, which should attempt to give accurate values for the coefficient K, which should attempt to give accurate values for the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient K, which should be accurate value of the coefficient





SOV/163-58-1-10/53

AUTHORS:

Pokhvisnev, A. H., Savel'yev, B. A.

TITLE:

The Mechanism of the Solidification of Molds in Burning

(O mekhanizme uprochneniya okatyshey pri obzhige)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958,

Nr 1, pp 43-47 (USSR)

ABSTRACT:

To explain some rules governing the mechanism of the solidification of molds in burning the authors carried out some investigations. It was found that the strength of the molds

depends on the burning temperature.

The decomposition temperature under pressure, as well as the micro and macro structures were necessary for the determina-

tion of the molds.

The following processes occur in the solidification of the

molds of magnetite ores and concentrates:

a) An oxidation of magnetite to hematite whereby a recrystallization of the hematite grains occurs. The formation of solid

molds is most influenced by the recrystallization of the magnetite grains. It is useful to burn the molds prior to

Card 1/2

use at oxidation temperatures of 1200 - 1300°C for 30 minutes.

SOV/163-58-1-10/53

The Mechanism of the Solidification of Molds in Burning

The solidification of the molds of hematite ores and concentrates is promoted by the formation of slags. In the solidification of magnetite and hematite molds certain additions exert a positive influence, as they reduce the burning time of the molds from 30 to 10 minutes. Mainly CaO up to 3 % is used as the impurity which positively influences the solidification process.

The higher the iron content in the ore and in the concentrates the higher is the strength of the molds produced from these

components. There are 4 figures.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: October 1, 1957

Card 2/2

HOKHVISNEY, A.N.

133-2-2/19

AUTHORS: Pokhvisnev, A.N. (Dr. Tech. Sc.,) and Savel yev, B.A. (Engineer)

TITLE: Mechanism of the Hardening of Pellets in Roasting on Firing (O mekhanizme uprochneniya okatyshey pri ouzhige)

PERIODICAL: Stal', 1958, Nr 2, pp.105-109 (USSR)

The mechanism of the strengthening of iron ore pellets ABSTRACT: on ignition was investigated in order to establish the best operating conditions for the process. The following materials were used: Krivoy Rog magnetite concentrates, Krivoy Rog hematite ore and pure ferric oxide. The chemical composition and size distribution of raw materials is given. Pellets were made by a method developed in the Moscow Institute of Steel (no details given). Firing of pellets under various conditions was carried out in a tube furnace. Crushing strength of pellets was measured with an PMN-50 (above 100 kg) and an apparatus based on the Emmerich system (below 100 kg). Macro and micro structure of pellets was also studied. Experimental results are shown in the form of graphs in Figs.1-11. It was established that an increase in the strength of magnetite pellets fired up to 900°C was due to oxidation of magnetite to hematite. Further increase of strength on firing to higher temperatures (up to Card 1/2 (was due to recrystallisation of hematite. It was

133-2-2/19

C. Mechanism of the Hardening of Pellets in Roasting

also found that the nature of the surface of grains (crushed or uncrushed) has an influence on the final strength of pellets fired under the same conditions (crushed grains produce a higher strength). The influence of lime addition is positive up to 3% due to lowering of the softening temperature of gangue material and negative at higher concentrations, due to separation of iron oxide grains. It is concluded that magnetite pellets should be fired under strongly oxidising conditions at high temperatures in order to oxidise magnetite to hematite quickly and as fully as possible, then the firing temperature should be raised to the established limit and maintained until recrystallisation of the hematite formed is completed. The duration of the process is from 10-30 min, the temperature 1200-1300°C, depending on the nature of the gangue material. For hematite pellets the duration and temperature of the firing can be somewhat lowered if ore is crushed before beneficiation, otherwise a temperature above 1300°C is necessary. There are 11 figures and 2 English references.

ASSOCIATION: Moscow Steel Institute (Moskovskiy Institut Stali)
AVAILABLE: Library of Congress.

THE PROPERTY OF THE PROPERTY O

CHILINGAROV, G.A., inzh.; POKHVISNEV, A.N., prof., doktor.

Effect of the physical structure of sinters on their metallurgical properties. Shor. inst. stali no.38:5-44 158. (MIRA 11:8)

1. Kafedra metallurgii chuguna Moskovskogo instituta stali im. Stalina. (Sintering)

POKHVISNEV, A.N., doktor tekhn.nauk prof.; MOINOV, S.G., inzh.; VEGMAN, Ye.F., kand.tekhn.nauk

Mineralogical composition and the reducibility of Chiatura manganese ore sinters. Izv.vys.ucheb.zav.; chern.met. 2 no.7:19-22 J1 '59. (MIRA 13:2)

Moskovskiy institut stali.
 (Chiatura--Manganese ores) (Sintering)

CIA-RDP86-00513R001341620009-5 "APPROVED FOR RELEASE: 06/15/2000

18.3200

77133 SOV/148-59-9-3/22

AUTHORS:

Pokhvisnev, A. N. (Doctor of Technical Sciences, Professor), Zhilkin, N. K. (Engineer)

TITLE:

The Use of Blast Furnace Gas Composition for the

Analysis and Thermal Control of Blast Furnace

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metal-

lurgiya, 1959, Nr 9, pp 29-45 (USSR)

ABSTRACT:

This article describes a method of control of blast furnace work under stabilized or unstabilized conditions, working on wet blast, on oxygen-enriched blast, or with application of natural gas. The method was developed by A. N. Polhvisvev (Author's Certificate Nr 75401) and checked under industrial conditions at the Plant imeni Dzerzhinskiy (zavod imeni Dzerzhinskogo) and at the Magnitogorsk Plant (Magnitogorskiy zavod) in 1941-1942. A. N. Pokhvisnev showed that, using the analysis of blast furnace gas, it is possible

Card 1/8

to calculate the value of p (index of carbon economy).

The Use of Blast Furnace Gas Composition for the Analysis and Thermal Control of Blast Furnace

77133 SOV/148-59-9-3/22

which is a volumetric or weight ratio of oxygen of the charge (which passed over into gas) to the gasified carbon. Therefore $p = \frac{O \text{ (charge)}}{C \text{ (gasified)}}$, and can be calculated using the data of material balance of melt. At the same time the carbon economy index can be determined by the composition of the blast furnace gas and blast: $p = \frac{CO_2 + 0.5 \text{ CO} - \beta \text{ N}_2}{CO_2 + CO}$ where CO_2 , CO, and N_2

are the components of the blast furnace gas in % by volume, and β is the ratio of oxygen (including the oxygen of blast moisture) to the nitrogen in the blast. A. N. Pokhvisnev also suggested that the reducing work of gases can be evaluated by the value $q = \frac{0.5 \text{ CO}_2}{\text{CO}_2 + \text{CO}}$,

which represents the ratio of oxygen of indirect reduction to the gasified carbon of the coke. His previously published method of preparing the heat balance rate on

Card 2/8

The Use of Blast Furnace Gas Composition for the Analysis and Thermal Control of Blast Furnace

77133 sov/148-59-9-3/22

the basis of blast furnace gas analysis gives the means of calculating (for any period of time) the consumption of heat (M) per unit of oxygen taken away from the charge, or per unit of produced cast iron. Expressing M through the indexes p and q, M = $\frac{1,254 + 2.38 \text{ W}}{p} + \frac{4.76 \text{ W}}{2} + \frac{6.040 \text{ q}}{4.76 \text{ W}} - 4.76 \text{ W}}{2}.$

 $\frac{\text{cal}}{\text{m}^2 \text{O}_2}$ of charge, where W $_{\partial}$ = heat content of 1 m³

of blast. The indexes of blast furnace work, determined by the blast furnace gas content; the heat balance rate; a program of analysis; and blast furnace thermal control and the investigation of the furnace work are discussed. The authors derived 13 formulas which were tested on blast furnace Nr 2 of the "Azovstal'" Plant (zavod "Azovstal'") over a period of 95 days in February, June, July, August, and September, 1958 and in March, 1959. Altogether, 665 comparisons of calculated and experimental indexes were prepared.

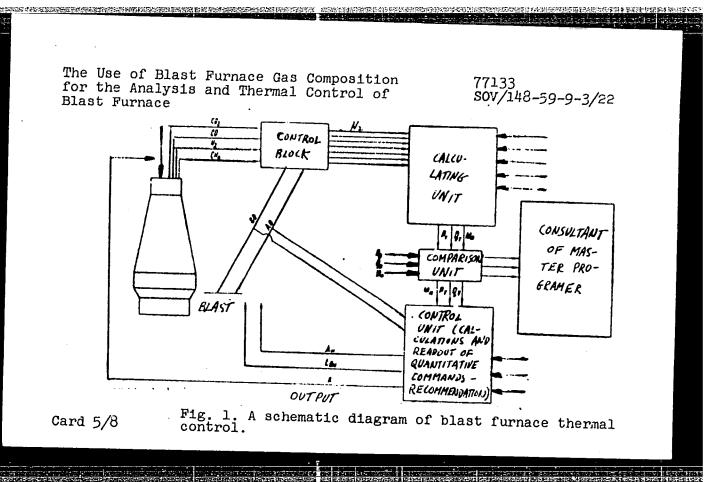
Card 3/8

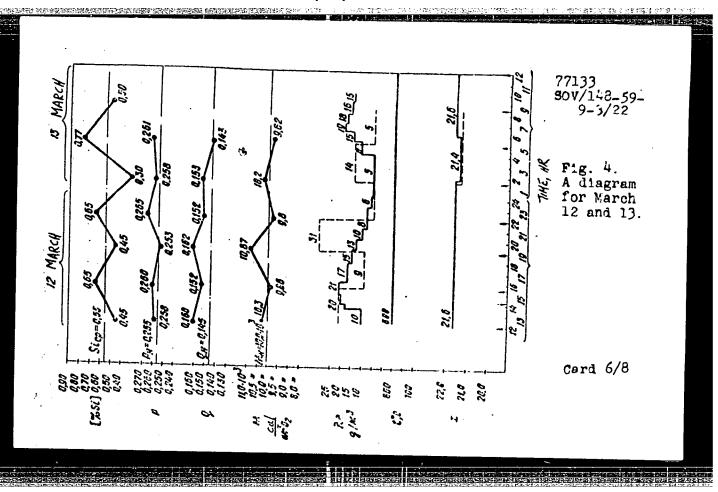
The Use of Blast Furnace Gas Composition for the Analysis and Thermal Control of Blast Furnace

77133 SOV/148-59-9-3/22

For illustration of the proposed method, the authors kept a daily diagram of the furnace work (see Fig. 4) and also prepared a schematic diagram of blast furnace thermal control (see Fig. 1). The results of the above investigation were listed as follows: (1) A new method of making hydrogen balance by the analysis of blast furnace gas. It determines the amount of hydrogen which evolved in the reduction processes and also the amount of oxygen taken from the charge by hydrogen and withdrawn from the furnace as water vapor, which is especially important when blowing natural gas. (2) The indexes, previously advanced by Pokhvisnev for the analysis of operation of blast furnace process under industrial conditions, were supplemented, in order to provide for the work of blast furnaces using the wet high-temperature blast and oxygen-enriched blast. The indexes took into account the possibilities of blowing the natural gas and also the reduction work of hydrogen. (3) A derived general formula of heat balance rate gives the means of calculating (at any given moment, using the

Card 4/8





APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341620009-5"

The Use of Blast Furnace Gas Composition for the Analysis and Thermal Control of Blast Furnaces

77133 SOV/148-59-9-3/22

values of indexes p and q, and heat content of the blast Wa) the incoming heat per unit of oxygen taken away from the charge (or, correspondingly, per unit of produced cast iron). (4) On the basis of the heat balance rate formula, the authors derived new formulas for quantitative evaluation of the means of thermal control. (5) A newly developed method of analysis and thermal control of blast furnaces gives the means for evaluation of the rate of blast furnace process during the stabilized as well as unstabilized operation, and enables the taking of the necessary steps in the event the work of the furnace deviates from normal. (6) Industrial tests of optico-acoustical automatic gas analyzers showed that, with proper tuning and systematic observation, they can be used for continuous control of blast furnace gas composition. For more reliable data, however, some further work is needed to increase their accuracy. The main drawback of opticoacousticol gas analyzers is the insufficient durability of the lithium-fluorine glass glued into the optical

Card 7/8

The Use of Blast Furnace Gas Composition for the Analysis and Thermal Control of Blast Furnaces

77133 SOV/148-59-9-3/22

This defect is especially noted by Pliskanovskiy, S. T., and Temnokhud, N. N., Metallurg, Nr 10, 1958. (7) To insure the analysis and the atomatic control of blast furnace thermal conditions by the developed method, the reliable automatic gas analyzers should be supplemented by the computing devices. (8)Industrial tests of the new method showed that, with satisfactory performance of gas analyzers, satisfactory forecasts regarding furnace thermal conditions reached 93-95%, a much higher percentage than any previously reached by production men on the basis of other data and practical experience. (9) A high percentage of satisfactory forecasts induced the decision to install this method in one or two plants with subsequent extension to other plants, putting control of blast furnaces on a scientific basis. There are 4 figures; 1 table; and 4 Soviet references.

ASSOCIATION: SUBMITTED:

Moscow Steel Institute (Moskovskiy institut stali) June 27, 1959 Card 8/8

AURAHSARY MIA

PHASE I BOOK EXPLOITATION

SOV/4252

Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil

四氢铜矿 医斯特特氏病 的复数的现在分词

Chernaya metallurgiya (Ferrous Metallurgy) Mowcow, Izd-vo AN SSSR, 1960. 275 p. (Series: Razvitiye proizvoditel'nykh sil Vostochnoy Sibiri) Errata slip inserted. 2,000 copies printed.

Ed.: G.I. Lyudogovskiy, Candidate of Technical Sciences; Ed. of Publishing
House: G.M. Makovskiy; Tech. Ed.: Ye.V. Makuni; Editorial Board of this
vol.: S.S. Dvorin, N.V. Ovchininskiy, Candidate of Technical Sciences,
A.N. Pokhvisnev, Doctor of Technical Sciences, and A.A. Fedotov, Engineer;
Editorial Board of Series: I.P. Bardin, (Deceased), Academician, Academy of
Sciences USSR (Chief. Ed.); M.A. Lavrent'yev, Academician, Academy of Sciences
USSR; S.I. Vol'fkovich, Academician, Academy of Sciences USSR; V.I. Dikushin,
Academician, Academy of Sciences USSR; V.S. Nemchinov, Academician, Academy of
Sciences USSR; V.I. Veyts, Corresponding Member, Academy of Sciences USSR;
O.D. Levitskiy, Corresponding Member, Academy of Sciences USSR; N.N. Nekrasov,
Corresponding Member, Academy of Sciences USSR; L.B. Pustovalov, Corresponding
Member, Academy of Sciences USSR; T.S. Khachaturov, Corresponding Member,

Card 1/85

Ferrous Metallurgy	sov/ 4252
the Section with their affiliations is given accompany several of the articles.	ven in the Appendix. References
TABLE OF CONTENTS:	
Foreword	3
Bardin, I.P. (Deceased). Development of Fer Eastern Siberia	rous Metallurgy in 7
SECTION I. MINERAL RESOURCES FOR	FERROUS METALLURGY
Chernyshev, G.B. Ore and Raw Material Base of in Eastern Siberia	of Ferrous Metallurgy
Feygin, L.M. Comparative Technical and Econo Industrial Development of Eastern Siberian Ix	omic Characteristics of con Ore Deposits 37
Card 3/0 3	

Perrous Metallurgy	80V/ 4252
Sichenko, V.K. Prospects for the Development of Coke Production From Coking Coals of Eastern Siberia	e and Chemical
Panchenko, S.I. Raw Material Base for Coke Supply fo Siberian Ferrous Metallurgy	· ·
Sapozhnikov, L.M. Continuous Coking and SemiCoking of Siberian Coals	f Eastern
Pokhvisnev, A.N. and B.M. Zlobinskiy. Coke From Easte Brown Coals	ern Siberian
Review of Adresses on Reports Dealing With the Develop and Coke Byproduct Coke Industry of Eastern Siberia	pament of the Coke
Card 5/# 5	

TIKHOMIROV, Ye.N.; POKHVISNEV, A.N.

Process of iron reduction in the blast furnace with burden including Kamysh Burun sinter. Izv. vys. ucheb. zav.; chern. met. no. 1:31-40 '61. (MIR" 14:2)

1. Zavod "Azovstuli" i Moskovskiy institut stali. (Iron-Metallurgy) (Kerch-Iron ores)

POKHVISNEV, A.N., doktor tekhn.nauk, prof.; BAZANOV, F.M., kand.tekhn.nauk; VEGMAN, Ye.F., kand.tekhn.nauk; YUSFIN, Yu.S., inzh.

Magnetization roasting of brown Kerch ores with removal of arsenic. Stal' 21 no. 4:289-293 Ap '61. (MIRA 14:4)

1. Moskovskiy institut stali.
(Kerch—Iron ores) (Ore dressing)

POKHVISNEV, A.N., doktor tekhn.nauk, prof.; TARASOV, V.P., inzh.;

TARASOV, F.P., inzh.; KOTEL'NIKOV, I.V., inzh.; LAVRENT'YEV, M.L.,
inzh.

New charging equipment for blast furnaces. Stal' 22 no.1:16-17 Ja '62. (MIRA 14:12)

1. Moskovskiy institut stali i Zhdanovskiy zavod imeni Il'icha. (Blast furnaces--Equipment and supplies)

POKHVISNEV, A.N., doktor tekhn.nauk, prof.; SPEKTOR, A.N., inzh.; YARKHO, Ye.N., inzh.

Calculating the charge for the production of partly reduced 'metallized) ore and coal nodules. Stal 22 no.2:106-109 F '62.

(MIRA 15:2)

1. Moskovskiy institut stali i Gosudarstvennyy soyuznyy institut po proyektirovaniyu metallurgicheskikh zavodov.

(Ore dressing)

POKHVISNEV, A.N., prof., doktor tekhn.nauk; TARASOV, V.P., inzh.; TARASOV, F.P., inzh.

standard charge distributor. Stal' 24 no.2:100-104 F '64. (MIRA 17:9)

1. Moskovskiy institut stali i splavov, Zhdanovskiy metallurgicheskiy institut i Zhdanovskiy metallurgicheskiy zavod im. Il'icha.

ZARAKHANI, A.I.; SPEKTOR, A.N.; SHCHEPILOV, F.I.; YESFIN, YH.O., GARNOT, N.P.; FOL'KIN, S.I.; FOKHVISHEV, A.M.

Technical and economic estimats of the concentratability of lean iron ores. Report No.2. Izv. vys. wcheb. zov.; chern. met. 8 no.9:17-21 '65. (M.EA 18:9)

1. Moskovskiy institut stali i splavov.

ZARAKHANI, A.I.; SPEKTOR, A.N.; SHCHEPILOV, F.I.; YUSFIN, Yu.S.; BANNYY, N.P.; POL'KIN, S.I.; POKHVISNEV, A.N.

Techanical and economic evaluation of the concentrability of lean iron ore. Izv. vys. ucheb. zav.; chern. met. 8 no.7:23-27 '65. (MIRA 18:7)

1. Moskovskiy institut stali i splavov.