

BORISOV, M. I.

Normy raskhoda zhidkogo topliva dlya avtomobiley; spravochnik [by]
A. M. Sheynin and M. I. Borisov

Moskva, Avtotransizdat, 1961.

174 p. Graphs, tables.

BORISOV, M.I. [Borysov, M.I.]

Study of the anatomical structure of the bedstraw *Galium
ruthenicum*. *Farmatsev. zhur.* 20 no.5:59-63 '65.

(MIRA 18:11)

1. Kafedra farmakognozii Khar'kovskogo farmatsevticheskogo
instituta; zaveduyushchiy kafedroy prof. Yu.G. Borisyuk
[Borysiuk, IU.H.]. Submitted March 15, 1965.

BORISOV, M.I. [Borysov, M.I.]; LITVINENKO, M.N. [Lytvynenko, M.M.]

Role of the department of pharmacy and pharmacognosy of the Kharkov University and of its laboratories in the development of scientific and practical pharmacy. Farmatsev.zhur. 19 no.1:71-74 '64.

1. Khar'kovskiy farmatsevticheskiy institut.

(MIRA 18:5)

BORISOV, M.I. [Borysov, M.I.]; BORISYJK, Yu.G. [Borysiuk, IU.H.]

Phytochemical study of the plant *Gallium cruciata*. *Farmatsev. zhur.*
20 no.1:63-66 '65.

(MIRA 18:10)

1. Kafedra farmakognozii Khar'kovskogo farmatsevticheskogo instituta.

BORISOV, M. N. Cand Agr Sci -- (diss) "Horse Breeding in the
Animal Husbandry Regions of West Kazakhstan and ^{Alma-Ata} Ways of Improving
It." Alma-Ata, 1957. 19 pp 20 cm. (Min of Agriculture USSR,
Alma-Ata Zooveterinary Inst), 100 copies (KL, 25-57, 115)

BORISOV, M.Ye.; BABUSHKINA, R.G.

Plastic flush tanks. Sbor. trud. NIIST no.12:5-26 '62. (MIRA 16:3)
(Water closets) (Plastics)

BABUSHKINA, R.G.; BORISOV, M.Ye.

Plastic siphon traps and outlets for washbowls. Sbor. trud. NIIST
no.12:27-42 '62. (MIRA 16:3)
(Plastics) (Plumbing--Equipment and supplies)

БОРИСОВ, Н.

AID P - 2217

Subject : USSR/Aerodynamics

Card 1/1 Pub. 135 - 18/18

Author : Borisov, N., Col., Dotsent, Kand. of Tech. Sci.

Title : Goroshchenko, V. T. Dinamika Poleta Samoleta
(Dynamics of Aircraft Flight). Oborongis, 1954
(Book Review)

Periodical: Vest. vozd. flota, 6, 95-96, Je 1955

Abstract : This is a favorable review of a textbook approved
by the Ministry of Higher Education for students of
higher aviation institutions.

Institution: None

Submitted : No date

BORISOV, N., Stroitel' no.6:6; BOYAN, I., Brigadir kontazhnikov.

We construct large-panel apartment houses. Stroitel' no.6:6
Je '57. (MLRA 10:9)
(Apartment houses) (Concrete slabs)

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 6 (USSR) SOV/123-59-16-63618

AUTHOR: Borisov, N.

TITLE: About the Method of Working Out Norms for the Generalized Standardization of Machine-Tool Operations

PERIODICAL: Trud i zarabotn. plata, 1958, Nr 4, pp 25-31

ABSTRACT: A report about the conference on problems of the methods of working out norms for the generalized standardization of machine-tool operations in mechanical engineering, held by the Scientific Research Institute of Labor in May 1958. Information was given about working out generalized norms for operations on lathes, milling machines, and planers, as well as for those performed on gear cutters. Further information was given about a project of norms for turret lathes and assembly work, about the experience of working out norms for the standardization of machine-tool operations in single piece production, in small and big series, and about the fundamentals of generalized standardization and methods of making out tables for a speedier choice of the right cutting conditions. 4 tables.

P.Ye.A.

Card 1/1

BORISOV, N.

Academic-methodological councils on applied economics. Vop.
ekzn. no.4:127-129 Ap '61. (MIRA 14:3)

1. Zavduyushchiy otdelom propagandy i agitatsii Kuybyshevskogo
rayonnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuzn,
Moskva.

(Moscow--Railroads--Employees)
(Economics--Study and teaching)

ACC NR: AP6020197

SOURCE CODE: URO056/66/050/006/1445/1457

AUTHOR: Neganov, B.; Borisov, N.; Liburg, M.

ORG: [Neganov] Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy); [Borisov, Liburg] Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Method of obtaining infralow temperatures, based on the dissolution of He³ in He⁴

SOURCE: Zh eksper i teor fiz, v. 50, no. 6, 1966, 1445-1457

TOPIC TAGS: liquid helium, low temperature phenomenon, cryogenic liquid cooling, cryogenic refrigerator

ABSTRACT: The method described was originally proposed by London, Clarke, and Mendoza (Phys. Rev. v. 128, 1992, 1962 and earlier) and is based on the use of the latent heat of dissolution of liquid He³ in He⁴. The refrigeration cycle is produced by continuously separating the two components at a higher temperature. The heat-transfer circuit is shown in Fig. 1 and the mechanics of separating and recirculating the He³ is shown in Fig. 2. The authors review the theory of the method, describe the continuous dissolution and circulation, present thermodynamic calculations of the cooling capacity of the equipment, and present a description of the complete apparatus and of the results. A temperature of 0.1K can be maintained with a heat supply of 1800 erg/sec and with He³ circulation of 1.84×10^{-4} mole/sec. In the absence of external heat supply the temperature of the solution can be maintained at ~0.056K. If

Card 1/2

L 32723-00

ACC NR: AP6020197

the ambient conditions do not change, the temperature can be maintained constant within $\sim 0.001\text{K}$. Later experiments, based on data on the solubility of He^3 at $\sim 0.01\text{K}$ (A. C. Anderson et al. Phys. Rev. Lett. v. 16, No. 7, 1966), stimulated the construction of a larger heat exchanger, yielded temperatures down to 0.025K , and made possible a temperature of 0.1K to be maintained at 1300 erg/sec supply. The authors thank Professor V. P. Dzhelepov for an opportunity to perform the work, L. B. Perfe-
 nev for participating in the first experiments, N. I. Kvitkov and F. A. Nikolayev for preparing the vital units of the apparatus, and the staff of the cryogenic laboratory of OIYaI for continuously supplying liquid helium under difficult conditions. Orig. art. has: 6 figures and 8 formulas.

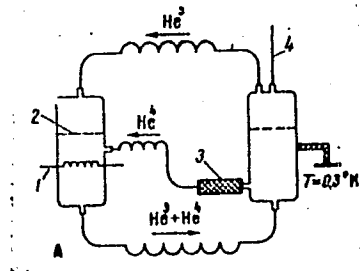


Fig. 1. Diagram of experiment on heat transfer between baths A and B by continuous solution of He^3 in He^4 . 1 - Heater, 2 - phase separation boundary, 3 - superfluid filter, 4 - capillary to fill the system

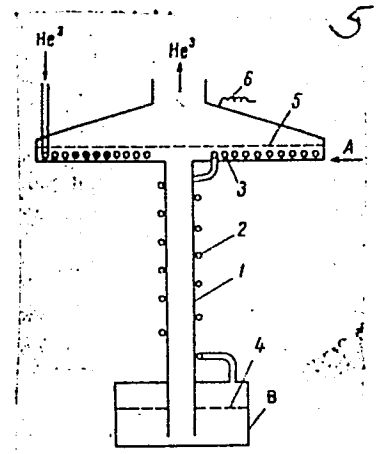


Fig. 2. Schematic diagram of apparatus

SUB CODE: 20/ SUBM DATE: 10Dec65/ ORIG REF: 002/ OTH REF: 009/ ATD PRESS: Card 2/2 JS 5025

BORISOV, N., inzh.

The GAZ-52 precombustion-chamber engine. Za rul. 19 no.12:12-
13 D '61. (MIRA 14:12)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.
(Diesel engines)

BORISOV, N.

New order for the receiving of pigskins. Kozh. obuv. prom. 5
no.7:40 JI '63. (MIRA 16:8)

1. Starshiy gosudarstvennyy inspektor Otdeleniya Gosudarst-
vennoy inspeksii po kachestvu tekstil'nogo, kozhevennogo i
pushno-mekhovogo syr'ya po UkrSSR, BSSR i Moldavskoy SSR.
(Leather industry) (Hides and skins)

REBRIN, S.F.; BORISOV, N.A.; GUBERNSKAYA, I.T., red.

[Production of fiberboard by the dry method without binders
in the Czechoslovak P.S.R.] Proizvodstvo drevesno-
voloknistykh plit sukhim sposobom bez svyaziushchikh v
ChSSR, Moskva, TSentr. nauchno-issl. in-t informatsii i
tekhniko-ekon. issledovaniia po lesnoi, tselliulozno-
bumazhnoi, derevoobrabatyvaiushchei promyshl., i lesnomu
khoz., 1964. 20 p. (MIRA 18:5)

BORISOV, N.A. For economizing in the use of steam in the textile industry
Moskva Gizlegprom, 1943. 72 p. (50-44158

TJ405.p26

GORDON, Nikolay Borisovich; BORISOV, Nikolay Alekseyevich; FRIDL'YAND, G.I.,
retsensent; ARKHANGEL'SKIY, S.S., redaktor; MEDVEDEV, L.Ya., tekhnicheskii
redaktor

[Finishing linen fabric] Otdelka lbnianykh tkanei, Moskva, Gos.
nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956.
364 p. (MLRA 10:3)
(Linen) (Textile finishing)

BORISOV, N.D.

Testing deep-sea thermometers for measurement accuracy. Trudy
GOIN no.63:104-107 '61. (MIRA 14:8)
(Deep-sea temperature)

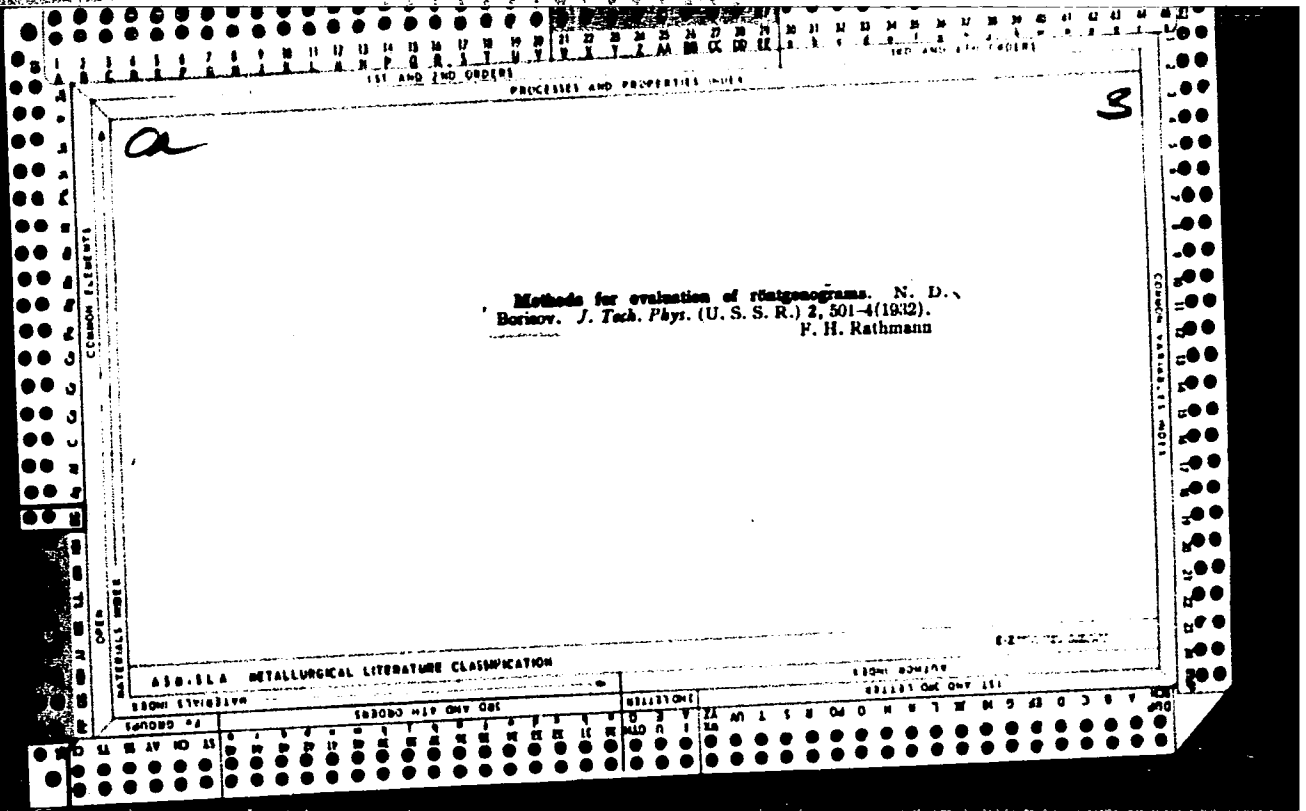
SIROTKINA, A.I., kand.geograf.nauk; IVANOVA, Z.N., mladshiy nauchnyy sotrudnik; BORISOV, N.D.; Primali uchastiye: OTDELENOVA, N.N., tekhnik; SKITEYKIN, A.I., tekhnik. PERLOVSKAYA, A.D., red.; IVANOV, G.S., kand.tekhn.nauk, otv.red.; ZARKH, I.M., tekhn.red.

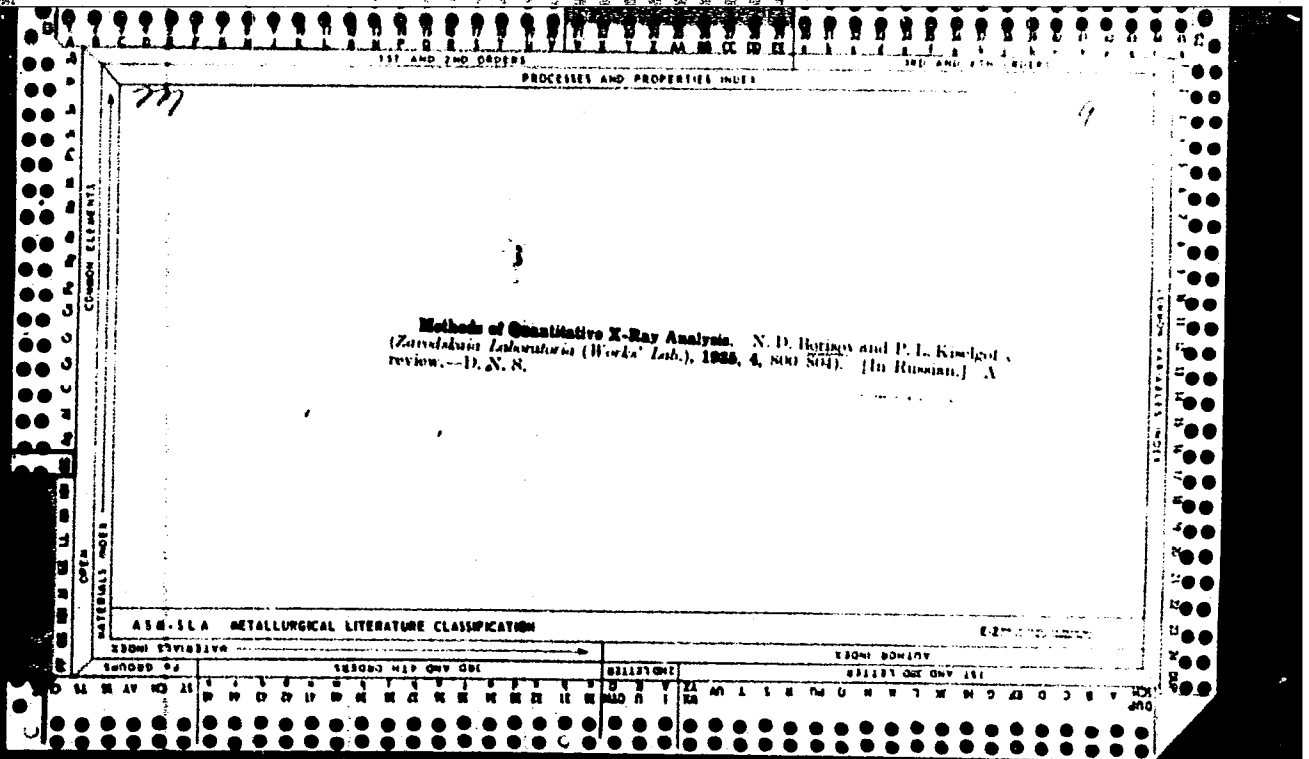
[Directions for meteorological and hydrological stations and posts] Nastavlenie gidrometeorologicheskim stantsiham i postam. Moskva, Gidrometeor.izd-vo. No.10. [Inspection of meteorological and hydrological stations and posts] Inspektsiia gidrometeorologicheskikh stantsii i postov. Pt.5. [Inspection of meteorological and hydrological ship stations] Inspektsiia sudovykh gidrometeorologicheskikh stantsii. 1959. 45 p. (MIRA 13:8)

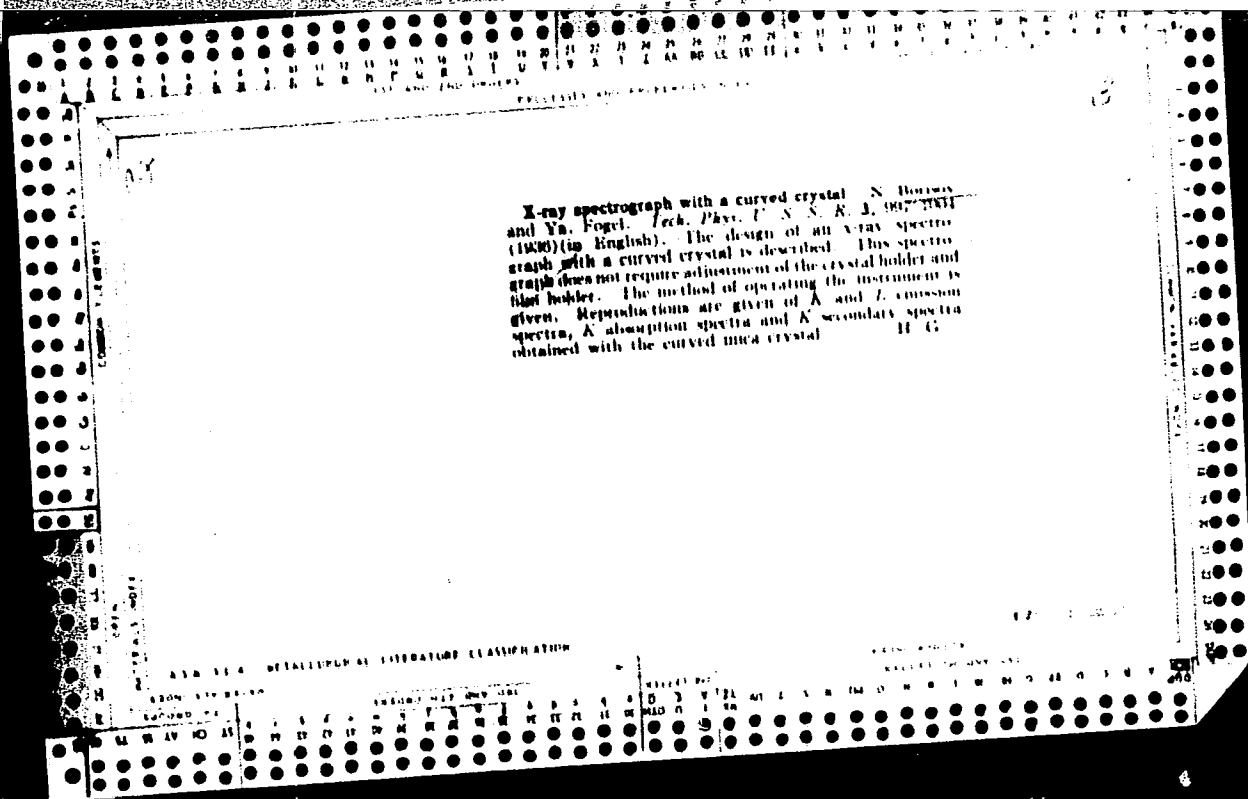
1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Nauchno-issledovatel'skiy institut aeroklimatologii (for Sirokina). 3. Gosudarstvennyy okeanograficheskii institut (for Ivanova). 4. Leningradskoye otdeleniye Gosudarstvennogo okeanograficheskogo instituta (for Borisov). 5. Nachal'nik Metodicheskogo otdela Gosudarstvennogo okeanograficheskogo instituta (for Ivanov).

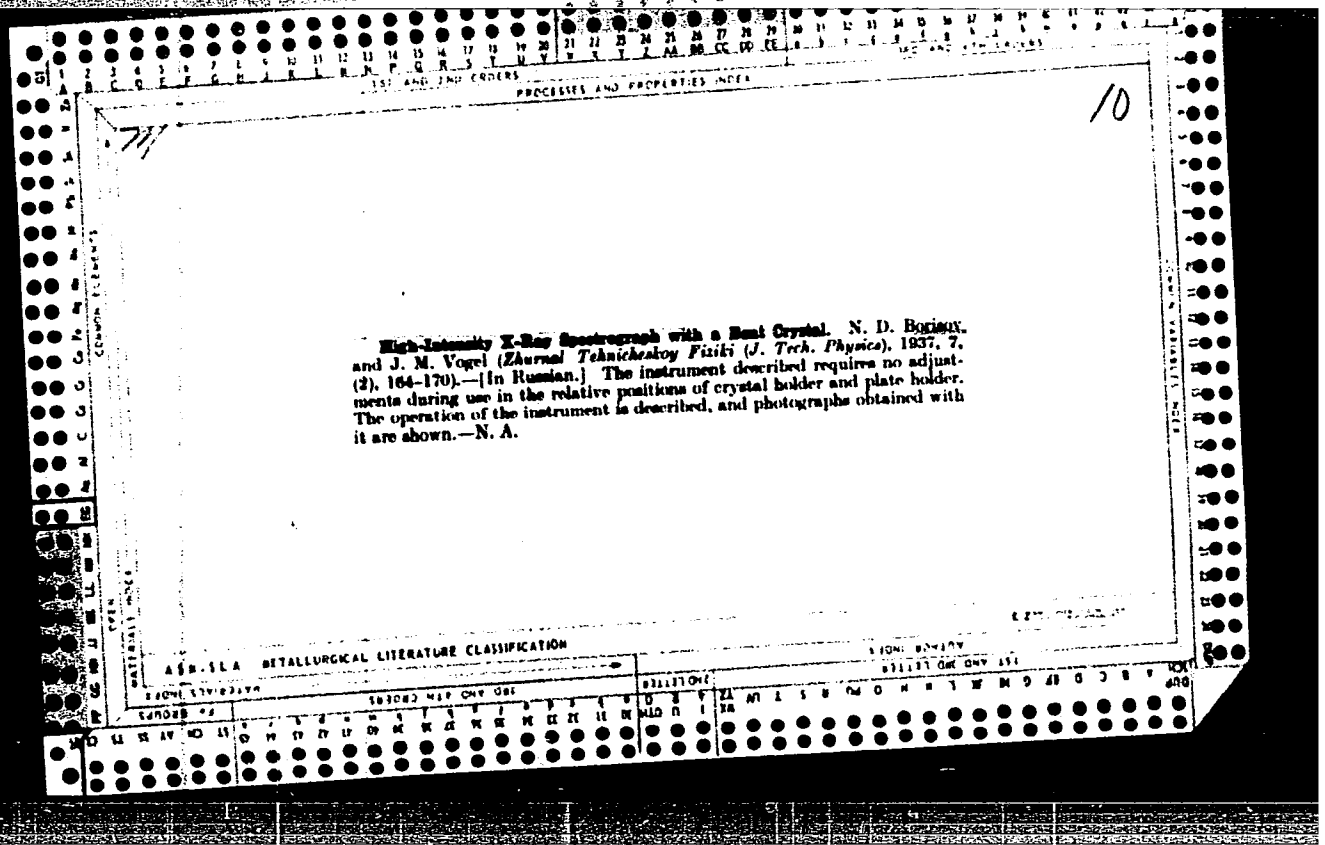
(Meteorology, Maritime)

(Oceanography)









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COMMON ELEMENTS

PROCESSES AND PROPERTIES INDEX

Use of a powerful vacuum spectrograph for the quantitative x-ray analysis of light elements. N. D. Bortov and Ya. M. Fogel. *J. Tech. Phys. (U. S. S. R.)* 8, 1780-1804 (1938); cf. *C. A.* 31, 49054. — The app. is described. It was used for detg. Si in mixts. of SrSO₄ and SiO₂. The ratio of the intensities of K_α of Si to L_α of Sr increased linearly with the ratio [Si]:[Sr] when the latter varied from 0.2 to 1. J. J. Bikerman

MATERIAL INDEX

ASM-31.A METALLURGICAL LITERATURE CLASSIFICATION

8204 11022174

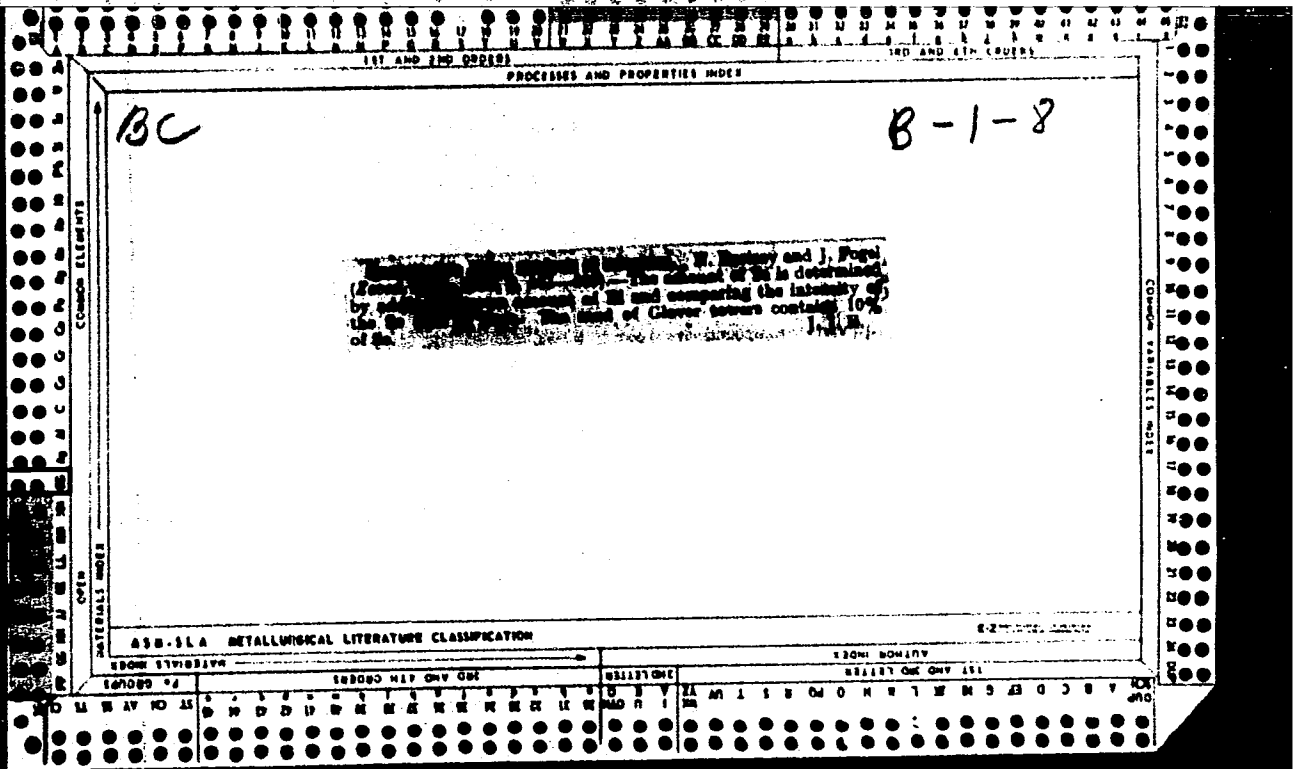
8204 93-107

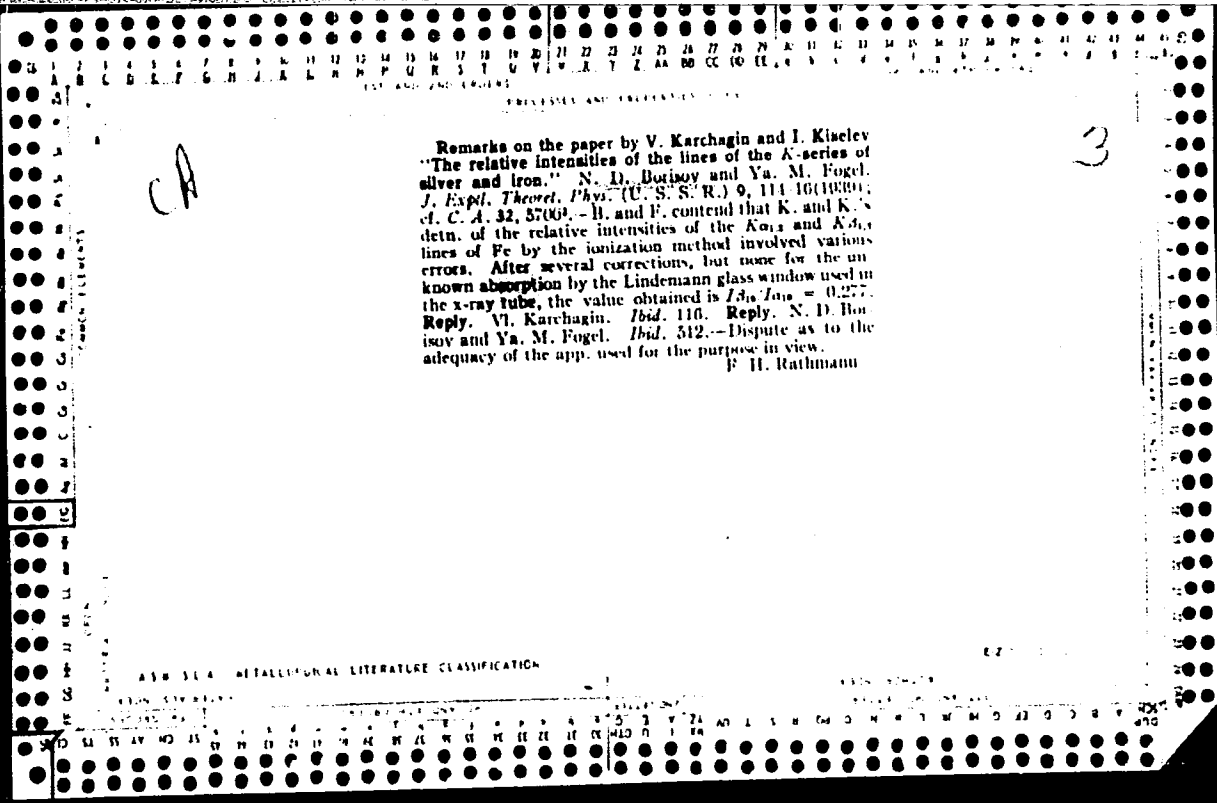
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BORISOV, N. D.

PA 11T56

USSR/Geiger-Muller Counters
Chemistry - Analysis

May 1947

"The Application of a Geiger-Muller Counter for the
Chemical Analysis at Low Concentrations of Various
Elements," N. D. Borisov, I. M. Fogel, 10 pp

"Zhur Eksp i Teor Fiz" Vol XVII, No 5-pp 599-612

Discusses equipment, with three schematic diagrams,
operating procedures and results of measurements of
the intensity of weak spectral lines by the counter,
with tabular data, and measurements of the modifica-
tion of the counter for qualitative, semi-qualita-
tive and qualitative chemical analysis of small
concentrations of the elements, also with tabular
data.

11T56

BORISOV, N. D.

Borisov, N. D. - "UkrGIFKh -- the pioneer in establishing and developing X-ray spectrail analysis in the Ukraine (1930-1940)", Trudy Vsesoyuz. in-ta sodovoy prom-
sti, Vol. V, 1949, p. 53-58.

SO: U-4631, 16 Sept. 53, (Letopis 'nykh Statey, No. 24, 1949).

BORISOV, N.D.

Measuring the flow velocity of liquids by the stroboscopic method.
Trudy GGI no.36:121-123 '52. (MIRA 11:6)
(Stream measurements)
(Stroboscopy)

BORISOV, N.D.

Luminous X-ray vacuum tube-spectrograph with strong linear
dispersion. Trudy Inst. Chern. Met. AN URSS 6:101-109 '53.
(X-ray spectroscopy) (MIRA 11:4)

~~BORISOV, N.D.~~

Selecting linear crystal apertures during work with X-ray spectrographs. Trudy Inst. Chern. Met. AN URSS 6:110-115 '53. (MIRA 11:4)
(X-ray spectroscopy)

BORISOV, N.D.; YEFER, A.M.

Measuring X-ray spectra: line breadths. Sbor. nauch. rab.
Lab. metallofiz. no.5:138-143 '54. (MIRA 8:9)
(X-rays--Spectra)

137-58-6-13742

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 362 (USSR)

AUTHOR: Borisov, N.D.

TITLE: On the Problem of Selection of Optimal Conditions of Photography and Photometry of X-ray Bands (K voprosu vybora optimal'nykh usloviy s'yemki i fotometrirovaniya rentgenovskikh polos)

PERIODICAL: Sb. nauchn. rabot In-ta metallofiz. AN UkrSSR, 1957, Nr 8, pp 209-214

ABSTRACT: A detailed analysis of factors influencing experimental data during the study of the fine structure of X-ray bands: the resolving capacity of the apparatus, the grain size of the photosensitive material, the width of the slot, and the pitch of the screw of the microphotometer. The great importance of the grain size in the photosensitive layer is indicated. In particular a background fluctuation of $\pm 2\%$ on "Agfa" film appears even at a 1000:1 ratio between the area of the section measured photometrically and the area of the grain in the film. The following conclusion is based on the experimental data: the resolving capacity of a spectrograph is determined by the grain size of

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137-58-6-13742

On the Problem of Selection of Optimal Conditions of Photography (cont.)

the photosensitive layer and must not be less than the width of the slot.

V.Sh.

1. X-ray photography--Equipment
2. X-ray spectrum analyzers--Performance
3. Photographic emulsions--Properties
4. Microphotometers--Performance

Card 2/2

BORISOV, N.D.; NEMOSHKALENKO, V.V.; FEFER, A.M.

Effect of the concentration of components in iron-chromium alloys
on structure of the energy spectrum of chromium and iron conduction
zones at high temperatures. Issl. po zharopr. splav. 3:252-263
' 58. (MIRA 11:11)
(Iron-chromium alloys--Metallography)
(Electron diffraction examination) (Metals at high temperature)

BORISOV, N.D.; NEMOSHKALENKO, V.V.; SVIRSKIY, G.S.

X-ray tube for obtaining fluorescence spectra at a wide range of temperatures. Zav. lab. 24 no.5:639-640 '58. (MIRA 11:6)

1. Institut metallofiziki Akademii nauk Ukrainiskoy SSR.
(X-ray spectroscopy)

AUTHORS: Borisov, N. D., Nemoshkalenko, V. V., SOV/20-121-2-19/53
Fefer, A. M.

TITLE: The Structure of the Energy Spectrum of Electrons in Iron-Chromium Alloys (Struktura energeticheskogo spektra elektronov v zhelezo-khromistykh splavakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 2, pp. 264 - 267 (USSR)

ABSTRACT: The $\alpha \rightarrow \sigma$ phase transformation of Fe-Cr alloys is of high interest because of the changed structure of the crystal lattice and the modification of different physical properties occurring in connection with it. These modifications are connected with modified energetical conditions of the atom electrons of the alloy component. The investigation of the modification of the fine structure of X-ray spectral lines - caused by transitions of electrons from exterior energetic bands to the K-level - offers an insight into the character of the σ -phase, the mechanism of the $\alpha \rightarrow \sigma$ phase transition and into the physical properties. In the present paper investigations of K_{β_5} X-ray emission bands of chromium and iron in Cr-Fe

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The Structure of the Energy Spectrum of Electrons in
Iron-Chromium Alloys

SOV/20-121-2-19/53

alloys are described. Similar investigations, namely of K-absorption spectra of the K_{α} -group of chromium and iron of a Fe-Cr alloy with 52,38% of iron were carried out by Kazantsev (Refs 1,2), yet the weak linear dispersion of the spectrograph applied did not permit a clear interpretation of the results. The authors of the present paper investigated Fe-Cr alloys with 35,45 and 55 % by weight of chromium; very pure Cr and Fe was obtained by electrolytical methods, the alloy was homogeneously tempered in a vacuum high-frequency furnace at 1150° for 50 hours. The transformation of the alloy from the α - into the σ -phase took place during the isothermal annealing at 650° in the course of 150 hours. The procedure adopted in the experiments was described in a previous paper (Ref 3) and is not repeated here. The results for pure Fe, pure Cr and 10 Fe-Cr alloys of different composition are given in a table. There are 2 figures, 2 tables, and 3 references, which are Soviet.

Card 2/3

The Structure of the Energy Spectrum of Electrons in Iron-Chromium Alloys SOV/20-121-2-19/53

ASSOCIATION: Institut metallofiziki Akademii nauk SSSR (Institute of Metal Physics of the AS USSR)

PRESENTED: February 11, 1958, by G.V.Kurdyumov, Member, Academy of Sciences, USSR

SUBMITTED: February 4, 1958

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18(7)

FRASE I BOOK EXPLOITATION SOV/3355

Akademiya nauk SSSR. Institut metallurgii. Nauchnyy sovet po problemam zharnoprochnykh splavov

Izdatel'stvo po zharnoprochnym splavam, t. IV (Studies on Heat-resistant Alloys, vol. 4), Moscow, Izd-vo AN SSSR, 1959. 400 p. Erata slip inserted. 2,200 copies printed.

Ed. of Publishing House: V. A. Klishov; Tech. Ed.: A. P. Guseva; Academician: M. V. I. P. Bardin, Academician: G. V. Kozlov; Sciences: I. A. Orl'ev; Corresponding Member, USSR Academy of Technical Sciences: I. M. Pavlov, and I. P. Zudin, Candidate

PURPOSE: This book is intended for metallurgists concerned with the structural metallurgy of alloys.

COVERAGE: This is a collection of specialized studies of various problems in the structural metallurgy of heat-resistant alloys. Some are concerned with theoretical principles, some with descriptions of new equipment and methods, others with practical aspects of materials. Various problems occurring under special conditions are studied and reported on. For details see Table of Contents. The articles are accompanied by a number of references, both Soviet and non-Soviet.

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AUTHORS: Borisov, N.D. and Nemoshkalenko, V.V. SOV/126-8-2-9/26

TITLE: The Structure of the Electron Energy Spectrum of Fe-Cr, Fe-Cr-Ni Alloys

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 2, pp 211 - 215 (USSR)

ABSTRACT: The aim of the present work was to establish characteristic changes in the structure of the electron energy spectrum due to the addition of nickel and iron-chromium alloys. The following alloys were used: Fe-Cr (55% Fe), Fe-Cr-Ni (58.4% Fe and 15.4% Ni). The nickel was electrolytically pure and the other components were of a "high degree of purity". The investigation was carried out with the aid of a quartz crystal (R = 50 cm) X-ray spectrograph (compare Ref 1) K_{β_5} lines of Cr, Fe and Ni (due to transitions from the conduction band of the K-level) together with the shortwave $K_{\beta''}$ satellite, and K_{β_1} lines (due to the transitions from the 3p-shell

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The Structure of the Electron Energy Spectrum of Fe-Cr, Fe-Cr-Ni
Alloys ^{SOV/126-8-2-9/26}

of the K levels) together with the long wave $K_{\beta'}$ satellite were investigated. These lines were obtained at 1 000 °C for the elements taken separately of the above alloys. The K_{β} lines for Fe and Ni were recorded in the fourth order and the Cr lines in the third order. The corresponding dispersion was 3.88 A/mm (Cr), 2.44 A/mm (Fe) and 3.03 A/mm (Ni). The results obtained are shown in Tables land 2. It was found that the width of CrK_{β_5} obtained for pure chromium increased with temperature. In the magnetic transition region there was a sharp increase in the width of FeK_{β_5} (to 0.9 + 0.1 eV).

The position of FeK_{β_5} remains unaltered. The $\alpha \rightarrow \gamma$ phase transformation is accompanied by a small change in the Fermi energy. The Fermi energy for the Fe-Cr alloy is 0.19 \sqrt{R} and 0.22 \sqrt{R} for the Fe-Cr-Ni alloy.

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SOV/126-8-2-9/26

The Structure of the Electron Energy Spectrum of Fe-Cr, Fe-Cr-Ni Alloys

Alloying of chromium, nickel and iron results in sharp changes in the position of the K_{β}''' satellites of chromium iron and nickel and a rapid change in the K_{β_5} and K_{β_1}''' intensity ratios. The position of the maximum K_{β_1} remains unaltered in all cases.

There are 3 figures, 3 tables and 2 Soviet references.

ASSOCIATION: Institut metallofiziki AN USSR (Institute of Metal Physics of the Ac.Sc., Ukrainian SSR)

SUBMITTED: March 6, 1958

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SOV/48-23-5-8/31

AUTHORS: Borisov, N. D., Nemoshkalenko, V. V., Fefer, A. M.

TITLE: Structure of the Energy Spectrum of Electrons in Iron - Chromium Alloys (Struktura energeticheskogo spektra elektronov v zhelezo-khromistyykh splavakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 5, pp 573 - 577 (USSR)

ABSTRACT: Great interest is displayed for the phase transformation $\alpha \rightarrow \delta$ of the alloys of the system Fe-Cr, since a fundamental change in the structure of the crystal lattice and the physical properties take place along with this transformation. The authors assume these transformations to be related to a change of the energy state of the electrons of the atoms in individual alloy components. Investigations of the changes of the X-ray spectral lines, especially the transition of electrons from the outer energy field to the K-level, are to supply the fundamentals for the understanding of the mechanism of phase transformation and of the changes in physical properties. Mention is made of investigations carried out by Kazantsev (Refs 1 and 2), which were not altogether successful

Card 1/2

Structure of the Energy Spectrum of Electrons in
Iron - Chromium Alloys

SOV/48-23-5-8/31

because of unsuitable experimental arrangements. The preparation of samples and their treatment are described, and the K-lines of pure iron and pure chromium, taken in two microphotograms at 1000°C, are shown. The computed values of the width of the K-band of chromium and iron in various alloy compositions at a temperature of 1000°C are shown in table 2, and the computed values of the Fermi energies and of the energies of the 3d band are given, taking into account the α , σ and γ phases. Both tables are discussed in detail, and a diagram (Fig 3) is plotted with the respective data, depicting the superimpositions of the energy fields of chromium and iron in Fe-Cr alloys. It is shown in this connection that in the mean range of the concentration of both components the energy of the 3d band of iron exhibits a minimum, and that of chromium a maximum. There are 3 figures, 4 tables, and 3 Soviet references.

ASSOCIATION: Rentgeno-spektral'naya laboratoriya Instituta metallofiziki Akademii nauk USSR (X-ray Spectral Laboratory of the Institute of Metal Physics of the Academy of Sciences, UkrSSR)

Card 2/2

BORISOV, N.D.

PAGE I BOOK REVISIONS 80/4502

Abstracts and book. Many some problems microalloyed splines
 metallography for microalloyed splines, Vol 6 (Investigations of Heat-
 treated Alloys, Vol. 6) Moscow, 1960. 319 p. Extra 513 inserted.
 3,000 copies printed.

Sponsoring Agency Abstracts book 8088. Abstract metallography splines A. A.
 Borisyev. Many some problems microalloyed splines.

Mikhailovskii, S. P., Shveta (Dorland) Academician, G. V. Borisyev, E. V.
 Agayev, Corresponding Member, Academy of Sciences (USSR), L. V.
 Gidlov, I. M. Noylov, and I. P. Zolotarev, Oxidation of Titanium Alloys,
 M. of Publishing House V. A. Il'inskiy, No. 41, S. O. Zhukovskaya.

NOTES: This book is intended for research workers in the field of physics of
 metals and for metallurgists, particularly those working on heat-resistant
 alloys.

CONTENTS: This collection of 45 articles deals with various problems in the
 production of heat-resistant alloys. Special attention is paid to the
 mechanism of deformation of such metals as aluminum, copper, iron, and nickel.
 The heat-treated and inclusion of metals are analyzed, and means for increasing
 their strength and stability are described. Among the special prob-
 lems discussed are the stability of alloys in the presence of hydrogen, the
 solid state) the stability of alloys in the presence of hydrogen, the
 effects of their crystalline structure) the kinetics of the
 the irreversible thermal transformation of α -TiAl alloys, etc. 80 personal
 files are mentioned. References follow each article.

Shveta, L. B. Influence of the Defects of Crystalline Structure on
 the Rate of Creep Activation 39

Borisyev, V. B., and A. I. Loshakov. Influence of Temperature and Degree of
 Prior Deformation on the Plasticity of Aluminum and Copper 34

Popov, L. M., G. I. Boykov, and S. A. Aleksandrov. The Mechanism of the
 Metallurgical Deformation in Alloys 38

Borisyev, V. B., E. V. Shveta, and M. B. Zakharenko. Effect of the
 Responsibility of Solid Solution on the Experimental Kinetics of the
 the Mechanical Properties of Deformed Nickel Compression 49

Borisyev, V. B., E. V. Shveta, A. B. Subbotina, V. A. Zolotarev, G. V.
 Agayev, and A. P. Mikhailovskii. Effect of Temperature Variation and Strain
 Rate on the Properties of Steels With Different Responsibility of Carbon
 Inclusions 56

Shveta, L. B., and V. A. Borisyev. Dependence of Nickel-Copper Alloy
 Creep Upon the Concentration of Solid Solution and Deformation
 Conditions 64

Borisyev, V. B. Equivalent Influence of Deformation Temperature and
 Strain Rate upon the Flow Curves of Copper and Nickel
 as the Influence of Steel 72

Glazov, I. A., and V. I. Shubnikov. Effect of Variable Stress Conditions
 on the Influence of Steel 77

Glazov, I. A., and V. I. Shubnikov. Mechanism of α -Ni Recovery in Creep
 Under Elevated Temperature Conditions 89

Shveta, L. B., and M. V. Pyrkulovskaya. Self-Diffusion in Iron and
 the Alloys With Aluminum in the α - γ -System 3 - Berlin 95

Kerzhnitskiy, S. B., I. M. Dzhurav, V. G. Mikhailovskiy, and K. G. Zhukovskiy.
 Investigation of Microalloyed Splines of Iron-Aluminum Alloys in
 Solid State 99

Kerzhnitskiy, S. B., and K. G. Zhukovskiy. Relationship Between Dislocation
 Density, Strain, and Strain Rate 105

Shveta, L. B., and E. V. Borisyev. Experimental Investigation of
 the Change of Components in Heat-Resistant Alloys of Fe-Al System 112

Shveta, L. B., and V. G. Mikhailovskiy. Effect of Recrystallization Defects
 of Crystalline Structure on the Mobility of Atoms in Nickel-Iron Alloys 120

Shveta, L. B., V. G. Mikhailovskiy, and A. B. Kozlov. Effect of Strain
 Rate on the Structure of the Strain Spectrum of Aluminum and
 Iron Alloys 130

Shveta, L. B., and S. A. Zhukovskiy. Investigation of Geometric Dis-
 tortions of the Crystalline Lattice of an Alloy According to the
 Analysis of X-ray and Thermal Methods 135

BORISOV, N.D.; NEMOSHKALENKO, V.V.

Determining the energy of X-ray photons and the electron energy levels within atoms. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.11:129-132 '60.

(Protons)

(Electrons)

(MIRA 13:11)
(X-ray spectroscopy)

BORISOV, N.D.

Estimating the number of observations and the accuracy parameter of
standard instruments in the verification of some oceanographic
instruments. Trudy GOIN no.55:208-218 '60. (MIRA 14:7)
(Oceanographic instruments--Testing)

80895

S/048/60/024/04/05/009
B006/B017

24.6200

AUTHORS: Borisov, N. D., Nemoshkalenko, V. V.

TITLE: On the Problem of Determining the Energy of X-Ray
Photons and the Energy of Atomic Electron Levels

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 4, pp. 393-396

TEXT: The present article is a reproduction of a lecture delivered at the 4th All-Union Conference on X-Ray Spectroscopy (Rostov-na-Donu, June 29 - July 6, 1959). Above all, the authors point out that a number of tables on X-ray spectra available at present are incorrect because they do not take into account the relation $\lambda_{K\alpha} = 1.00203 \lambda$ (e.g., Refs. 2-6) although they have been issued after 1947. The deviations are illustrated by some examples. The table on p. 393 contains the λ -values in X-units for the $K\alpha_1$ lines of some elements, the tabulated energy values in rydbergs, and the energy values computed from the formula $E = 1/\lambda R$ (R = Rydberg constant). In determining the photon energy an error occurs (ΔE), which is the higher the higher the photon energy E. The correct ✓

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On the Problem of Determining the Energy of X-Ray S/048/60/024/04/05/009
Photons and the Energy of Atomic Electron Levels B006/B017

formula for computing these energies is $\log E(\text{Ry}) = 5.9587650 - \log \lambda$ (X-units) and not $\log E(\text{Ry}) = 5.9596457 - \log \lambda$ (X-units). In the following, details are chosen from some papers mentioned - e.g., details on the K-level of copper (Refs. 4, 8) - and it is demonstrated that the deviations may be partly very high. The conclusions to be drawn from the investigations of the authors are summarized as follows: 1) The data on X-ray photons and spectral absorption edges given in the tables available at present should be revised with special regard to the most recent data on physical constants. 2) It was found necessary to recalculate the electron level terms, using the state of the neutral atom as zero point of the energy scale. 3) It is necessary for X-ray spectroscopy to set up new tables which take into account the facts discussed by the authors. There are 1 table and 14 references: 7 Soviet, 3 American, 1 British, 1 Czech, 1 German, and 1 Swedish.

ASSOCIATION: Institut metallofiziki Akademii nauk USSR (Institute of
Metal Physics of the Academy of Sciences of the UkrSSR)

Card 2/2

BORISOV, N.D.; NEMOSHKALENKO, V.V.

Resolving power of a single crystal spectrograph of our design
with focusing according to Johann. Sbor. nauch. rab. Inst.
metallofiz. AN URSR no.13:181-185 '61. (MIRA 14:12)
(Spectrograph)

BORISOV, N.D.; NEMOSHKALENKO, V.V.

Resolving power of single-crystal spectrographs with Johann
focusing. Izv. AN SSSR. Ser. fiz. 25 no.8:943-946 Ag '61.
(MIRA 14:8)

1. Institut metallofiziki AN USSR.
(X-ray spectroscopy)

BORISOV, N.D.; NEMOSHKALENKO, V.V.

Electron distribution by states in metals of the iron transition group. Izv. AN SSSR. Ser. fiz. 26 no.8:1002-1006 Ag '61.
(MIRA 14:8)

1. Institut metallofiziki AN USSR.
(Electrons)
(Metals)

BORISOV, N.D.; NEMOSHKALENKO, V.V.; FEFER, A.M.

Effect of temperature and small concentrations of impurities
(Ti, Fe, Ni, Hf, Ta) on the fine structure of the X-ray band
in chromium. Issl.po zharopr.splav. 8:14-19 '62.

(MIRA 16:6)

(Chromium—Metallography)

(Metals, Effect of temperature of)

BORISOV, N.D.; NEMOSHKALENKO, V.V.

Efficiency of the resolving power of X-ray spectra investigating
methods. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.16:186-189
162. (MIRA 16:5)

(X-ray spectroscopy)

BORISOV, N.D.

Testing a bathythermograph. Trudy GOIN no.70:100-105 '62.

(Bathythermograph)

(MIRA 15°6)

BORISOV, N.D.

Characteristics of contingent functions of corrections to
the scales of measuring instruments. Trudy GOIN no.74:102-106
'63. (MIRA 16:7)

(Thermometers)

BORISOV, N.D.; NEMOSHKALENKO, V.V.

X-ray investigation of the electron structure of alloys in
the system titanium-chromium. Sbor. nauch. rab. Inst. me-
tallofiz. AN URSR no.18:202-205 '64 (MIRA 17:8)

BORISOV, N.D.

Testing devices for shaking and vibration. Trudy GOIN no.82:
3-11 '64 (MIRA 18:2)

BORISOV, N.D.

Indexes of the accuracy of bathythermographs. Trudy GOIN no.87:
174-183 '65. (MIRA 19:1)

L 38921-66 ENT(1) GN

ACC NR: AT6016357

(N)

SOURCE CODE: UR/2634/65/000/087/0174/0183

AUTHOR: Borisov, N. D.

ORG: none

TITLE: Accuracy indexes of bathythermographs

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, no. 87, 1965.
L'dy i termika morey (Ice and thermal conditions of seas), 174-183

TOPIC TAGS: temperature instrument, oceanographic instrument

ABSTRACT: The stability of bathythermographs and the effectiveness of correcting the recorded data by field verification are studied. The repeatability of measurements of the temperature unit of the instrument was studied at the laboratories of institutes, at a plant laboratory, and on expeditions. The scale errors of the temperature unit are discussed. Observations of the consistency of the range of variation of corrections confirmed the conclusion that the magnitude of this range, which is a measure of the linearity of the temperature unit scale, does not have a tendency to increase with time and is a rather stable quantity. The author also dwells on the problem of the consistency of the instrument which is solved by a systematic series of trials at selected points of the scale by a subsequent comparison of

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the corrections in a chronological series. The chronological series of scale corrections are shown in tables, the corrections being derived in the laboratory, before an expedition, during an expedition, and again in the laboratory. A 0.3° allowance for over-correction was used as a criterion in estimating the consistency of the corrections. Neither tested instruments had consistency since the change of corrections exceeded 0.3° . The conclusions with respect to Soviet bathythermographs partially coincide with those of T. M. Dauphinee and H. Preston-Thomas (The Measurement of Ocean Temperatures. Temperature, Its Measurement and Control in Science and Industry. New York, 1962) with respect to foreign bathythermographs, i.e., bathythermographs have a number of limitations. However, the author does not agree that disturbance of the consistency of the instrument is explained by rough handling. Nevertheless the author recognizes the fact that consistency is lost when the instrument is used on expeditions where the instrument undergoes light joltings, for example against the side of the ship. Orig. art. has: 9 tables and 2 formulas.

SUB CODE: 08, 13 / SUBM DATE: None / ORIG REF: 001 / OTH REF: 003

Card 2/2 *YD*

BORISOV, N. I.

Drugstores

Enhance the role of pharmacies in rural district centers. Apt. delo no. 4, 1952

Monthly List of Russian Accessions, Library of Congress. November, 1952. UNCLASSIFIED

ASSONOV, Aleksandr Danilovich,; SHEPELYAKOVSKIY, Konstantin Zakharovich,;
LANKIN, Petr Aleksandrovich,; YAITSKOV, S.A., inzh.; SHKLYAROV,
I.N., inzh.; RABIN, M.O., inzh.; SENYUSHKIN, N.V.; ZHIVOTOVSKIY,
A.N.; BORISOV, N.I.; SHMYKOV, A.A., doktor tekhn. nauk, red.;
LOZINSKIY, M.G., doktor tekhn. nauk, retsenzent,; MODEL', B.I., tekhn. red.

[Gas cementation with induction heating] Gazovaya tsementatsiya
s induktsionnym nagrevom. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1958. 87 p. (MIRA 11:12)
(Cementation(Metallurgy))

POPOV, S.D., otv.red.; BORISOV, N.I., red.; BUYANTUYEV, B.R., red.; GALAKTIONOV, I.I., red.; ~~KROPOV, V.M., red.~~; OZNOBIN, N.M., red.; PAVLOVSKIY, Ye.V., red.; TARASOV, G.L., red.; SHNIPER, R.I., red.; AKHANOV, TS.B., tekhn.red.

[Studies on the production forces of the Buryat-Mongolian A.S.S.R.]
Materialy po izucheniu proizvoditel'nykh sil Buriat-Mongol'skoi ASSR.
No.2. Ulan-Ude, Buriat-Mongol'skoe knizhnoe izd-vo. 1955 507 p.
(MIRA 12:4)

1. Akademiya nauk SSSR, Vostochno-Sibirskiy filial. 2. Sovet po izucheniyu proizvoditel'nykh sil AN SSSR (for Popov, Galaktionov, Tarasov).
 3. Zamestitel' predsedatelya Soveta Ministrov Buryat-Mongol'skoy ASSR (for Borisov).
 4. Vostochno-Sibirskiy filial AN SSSR (for Buyantuyev).
 5. Institut ekonomiki AN SSSR (for Oznobin).
 6. Gosplan Buryat-Mongol'skoy ASSR (for Shniper).
- (Buryat-Mongolia--Geography, Economic)

BORISOV, N.I., kand. tekhn. nauk, red.; VISKOVA, M.V., red.; REZOUKHOVA,
A.G., tekhn. red.

[Inertial navigation; collection of translated articles] Problemy
inertsial'noi navigatsii; sbornik statei. Moskva, Izd-vo inostr.
lit-ry, 1961. 237 p. (MIRA 14:6)
(Inertial navigation)

BORISOV, N. *N.S.L.*

PA 62T19

USSR/Engineering
Automobiles
Automobile Industry

Feb 1948

"The Moskvich Automobile," N. Borisov, Engr, 7 PP

"Avto" No 2

The Moskvich is variation of the KIM-10, and includes all the advantages and many improvements of the shortcomings of its predecessor. Table compares the performance of the Moskvich, KIM-10, Pobeda, and GAZ-M-1. The Moskvich is 1947 model, 4-door, 4-cylinder, and 23-hp at 3,400 rpm, having base of 2,340 mm. Front end has individual wheel suspension, and the rear end, leaf springs. Hydraulic drive,

62T19

USSR/Engineering (Contd)

Feb 1948

top speed 90 km per hour, and average fuel consumption 9 liters per 100 km.

62T19

BORISOV, N. I.

Borisov, N. - "Performance Characteristics of the automobile 'Moskvich'," 'Avtomobil', 1949, No. 3, p. 4-7

SO: U-4634, 29 Oct 53. (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

BORISOV, N. *I.*

Borisov, N. - "'Moskvich' series of automobiles (Light-weight)," Tekhnika-molodezhi, 1949, No. 3, p. 20-21, 30

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

BORISOV, N. *I.*

27300 BORISOV, N. - Dvigatel'Automobilya Moskvich Automobil', 1949, No 8, S. 13-17

S0: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

ANDRONOV, A.F.; BORISOV, N.I.; KUPERMAN, M.N.; KHAL'FAN, Yu.A.; KRAMARENKO, G.V.,
kandidat tekhnicheskikh nauk, retsenzent; MAYKOV, A.S., kandidat tekhnicheskikh nauk, redaktor; BROKSH, V.V., inzhener, zaveduyushchiy redaktsiyey.

[Repair of the "Moskvich" automobile; dismantling-assembling and adjustment work] Remont avtomobilia "Moskvich"; razborochno-sborochnye i regulirovochnye raboty. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. litry, 1952. 286 p.

(MLRA 6:5)

(Automobiles--Repairing)

BORISOV, N.I., redaktor; TIKHONOV, A.Ya., tekhnicheskii redaktor

[Catalog of spare parts for the Pobeda automobile M-20] Katalog
zapasnykh chastei avtomobilia M-20 Pobeda. Moskva, Gos. nauchno-
tekh. izd-vo mashinostroitel'noi lit-ry, 1955. 222 p. (MLRA 8:7)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye po sbytu avto-
mibiley, traktorov, kombaynov, motorov i chastei k nim. 2. Gl. kon-
struktor avtozavoda imeni Molotova (for Borisov).
(Automobiles)

BORISOV, N.

"Volga." Tekh.mol.23 no.9:19-21 S'55. (MIRA 8:12)

1. Glavnyy konstruktor Gor'kovskogo avtozavoda imeni B.M.Molotova
(Automobiles)

BORISOV, N.

What are the designers working on in the Molotov Automobile
Plant in Omsk. Avt. transp. 33 no.4:32-33 Ap '55.

(MLRA 8:7)

1. Glavnyy konstruktor zavoda.
(Omsk--Automobile industry)

BORISOV, N.I., redaktor; MARTENS, S.L., inzhener, redaktor izdatel'stva;
TIKHONOV, A.Ya., tekhnicheskiy redaktor; SOKOLOVA, T.F., tekhnicheskiy
redaktor

[Catalog of spare parts for trucks, models GAZ-51, GAZ-63 and
GAZ-63A] Katalog zapasnykh chastei gruzovykh avtomobilei GAZ-51,
GAZ-63 i GAZ-63A. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1956. 237 p. (MIRA 9:12)

1. Gor'kovskiy avtomobil'nyy zavod imeni Molotova, Gorki. 2.
Glavnyy konstruktor Gor'kovskogo avtomobil'nogo zavoda imeni Molotova.
(for Borisov)
(Motortrucks)

ZISLIN, S.G.; MOZOKHIN, N.G.; PELYUSHENKO, O.I.; CHERNOMASHENTSEV, A.I.;
YAKUBOVICH, I.Ye.; BORISOV, N.I., glavnyy konstruktor, otvetstvennyy
redaktor; PONOMARENKO, A.D., redaktor; ZAKHAROV, K.A., tekhnicheskiy
redaktor

[GAZ-69 and GAZ-69A automobiles; a description of their construction,
adjustment, and maintenance] Avtomobili GAZ-69 i GAZ-69A; opisaniye
konstruktsii, regulirovka i ukhod. Gor'kii, Gor'kovskoe knizhnoe
izd-vo, 1956. 317 p. (MLRA 10:2)

1. Avtozavod, im. Molotova (for Borisov)
(Automobiles)

Борисов, Н.И.
BORISOV, N.I.

The automobile "Volga." Za rul. 14 no.3:3-4 Ja '56. (MIRA 11:2)

1. Glavnyy konstruktor Gor'kovskogo avtozavoda im. Molotova.
(Automobiles--Design and construction)

Borisov N.I.

ZISLIN, Samuil Grigor'yevich; IRKHIN, Ivan Vasil'yevich; PODOL'SKIY, Vladimir Ivanovich; PROSVIRNIN, Aleksandr Dmitriyevich; BORISOV, N.I., red.; YEGORKINA, L.I., red.; UVAROVA, A.F., tekhn.red.

[Collection of chassis designs for GAZ-51, GAZ-63, GAZ-63A automobiles; plans for assembling and constructing] Atlas konstruksii shassi avtomobilei GAZ-51, GAZ-63, GAZ-63A; chertezhi uzlov i rabochie chertezhi detalai. Pod obshchei red. N.I.Borisova. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroi. lit-ry, 1957. 215 p. (MIRA 10:12)
(Mototrucks--Bodies)

KISELEV, I.I.; BORISOV, N.I.; YASINOVSKIY, B.S., inzh.; SANNIKOV, Yu.K., inzh.;
SOKOLOV, V.A., inzh.; LEVCHENKO, L.D., inzh.; HALOYEV, G.A., inzh.;
CHICHAKOV, K.K., inzh.; BARTKIN, V.I., inzh.; FREYDLIN, A.Ya., inzh.
GULYAYEV, A.I., inzh.; STIGHEYEV, Ya.F., inzh.; SHAGANOVA, K.N., inzh.;
KHELIMSKIY, I.Ye., inzh.; AVROV, A.M., inzh.; DEMIDOVA, M.I., inzh.;
NIKIFOROVA, Ye.D., inzh.; KLIBANOVA, F.I., inzh.; CHIVKUNOV, K.I.,
inzh.; STOROZHKO, I.G., inzh.; NOVAKOVSKIY, Ye.Ya., inzh.; GOYKHTUL',
A.O., inzh.; TARASOV, A.M., inzh.; SHISHKO, A.P., inzh.; UVAROV,
P.T., ekonomist; DRAGUNOV, M.V., ekonomist; KARANDASHOV, A.A.,
ekonomist; KONKIN, M.V., ekonomist; GOREV, M.S., ekonomist. Pri-
nimali uchastiye: LAPIN, T.I.; RAMENSKIY, Yu.A.; KADINSKIY, B.A.;
SOKOLOV, S.D.; STOROZHKO, I.G.; FOMINYKH, A.I.. POLYAKOVA, N.,
red.; SMIRNOV, G., tekhn.red.

[Organization and improvement of production; practices of the
Gorkiy Automobile Plant] Organizatsiia i sovershenstvovanie
proizvodstva; opyt Gor'kovskogo avtozavoda. Moskva, Gos. izd-vo
polit. lit-ry, 1958. 332 p. (MIRA 12:2)

1. Direktor Gor'kovskogo avtomobil'nogo zavoda (for Kiselev).
2. Glavnyy inzhener Gor'kovskogo avtomobil'nogo zavoda (for Borisov).
3. Gor'kovskiy avtomobil'nyy zavod (for all except Kiselev, Borisov,
Polyakova, Smirnov).

(Gorkiy--Automobile industry)

NEVZOROV, Aleksandr Mikhaylovich; SOLOV'YEV, Vladimir Sergeyevich;
BORISOV, N.I., glavnyy inzhener, etv.red.; KNYAZEV, V.V.,
red.; BROLIKOVSKAYA, R.G., tekhn.red.

["Volga" automobile; construction and operation] Avtomobil'
"Volga"; ustroistvo i ekspluatatsiia. Ger'kii, Ger'kovskoe
knizhnoe izd-vo, 1959. 165 p. (MIRA 12:9)

1. Ger'kovskiy avtozavod (for Borisov).
(Automobiles)

ZISLIN, S.G.; MOZOKHIN, N.G.; PELYUSHENKO, O.I.; SOLOV'YEV, V.S.; CHERNO-
MASHENTSEV, A.I.; YAKUBOVICH, I.Ye.; BORISOV, N.I., red.;
KNYAZEV, V.V., red.; BRULIKOVSKAYA, R.G., tekhn.red.

[The GAZ-69, GAZ-69A, and M-72 high-roadability automobiles;
construction and operation] Avtomobili vysokoi prokhodimosti
GAZ-69, GAZ-69A i M-72; ustroistvo i ekspluatatsiia. Pod red.
N.I.Borisova. Gor'kii, Gor'kovskoe knizhnoe izd-vo, 1959.
363 p. (MIRA 13:5)

1. Glavnyy inzhener Gor'kovskogo avtozavoda (for Borisov).
(Automobiles)

BORISOV, N.

Ideas are realized in metal. Izobr. i rats. no.5:27-28 My '59.
(MIRA 12:8)

1. Glavnyy inzhener Gor'kovskogo avtozavoda.
(Gorkiy--Automobile industry)

BORISOV, N.I.

The seven-year plan on the wings of automation. Za rul. 17 no.10:
6-9 0 '59. (MIRA 13:2)

1. Glavnyy inzhener Gor'kovskogo avtozavoda.
(Automation) (Gorkiy--Automobile industry)

BORISOV, N. I.; PROSVIRNIN, A. D.

Models of motor vehicles manufactured at the Gorkiy Automobile Plant.
Avt.prom. no.11:6-13 N '60. (MIRA 13:11)

1. Gor'kovskiy avtozavod.
(Gorkiy--Automobile industry)

BORISOV, N.I.

Standardization of basic parameters of passenger automobiles.
Standartizatsia 27 no.3:7-11 Mr '63. (MIRA 16:4)
(Automobiles--Standards)

BORISOV, N.I.

Basic principles for the design of standard models of high-
roadability motor vehicles. Standartizatsiia 27 no.5:7-10
My '63. (MIRA 16:6)
(Motor vehicles—Design and construction)

BORISOV, N.I.

Prolonging the life of engines. Avt.prom. 29 no.1:6-7 Ja '63.
(MIRA 16:1)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.
(Motor vehicles--Engines)

BORISOV, N.I.

Evaluating the durability of motor vehicles and their engines.
Standartizatsiia 28 no.7:16-22 J1 '64.

(MIRA 17:11)

BORISOV, Nikolay Ivanovich; SMOLIN, V.N., nauchn. red.; VORONIN,
A.S., red.

[Standardization of the parameters of motor vehicles]
Standartizatsiia parametrov avtomobilei. Moskva, Izd-vo
Standartov, 1965. 179 p. (MIRA 18:8)

BORISOV, N.L., inzhener

Experience in operating the BK-2 tower crane. Mekh. stroi. 12
no. 5:24-25 My '55. (MLRA 8:6)
(Cranes, derricks, etc.)

BORISOV, N.L., inzhener

Some shortcomings of tower cranes. Mekh.stroi. 12 no.8:18-19
Ag'55. (MLRA 8:10)

(Cranes, Derricks, etc.)

BORISOV, N.L., inzhener.

Shortcomings in the maintenance of the roadbuilding machinery.
Mekh.stroi. 13 no.11:12-15 N '56. (MLRA 9:12)
(Road machinery--Repairing)

25(5)

SOV/100-59-10-4/12

AUTHOR: Borisov, N.L., Engineer

TITLE: Organization of Technical Field Service for Road-Making Machines

PERIODICAL: Mekhanizatsiya stroitel'stva, 1959, Nr 10, pp 12-16 (USSR)

ABSTRACT: One of the great problems in repairing internal combustion engines of road machinery under field conditions is the special care that needs to be given to the fuel feeding apparatus, such as carburetors and fuel distributing devices. The Mechanization Department of the Odessa Sovnarkhoz has developed a field service center intended to repair and to service carburetor gas engines and Diesel engines in regard to fuel feeding apparatus and systems. The functions of this center consist in maintenance, adjustments, tuning in and regulating fuel consumption, replacing worn parts and training personnel in basic maintenance work. The article gives a list of standard operations included in regular maintenance of fuel feeding systems. These operations are carried out with the aid of sets of special tools and equipment recommended by Professor A.I. Seilvanov for Diesel fuel feeding apparatus and by VNIAT for carburetor maintenance and repair. The article describes in detail a few standard operations with the aid of the said tools and equipment.

Card 1/2

SOV/100-59-10..4/12

Organization of Technical Field Service for Road-Making Machines

Being a mobile service center which travels from site to site, the whole outfit is conveniently arranged in a special trailer which is pulled by a truck or a tractor. The article gives an illustration and description of the interior of the trailer accomodating the equipment. There are 2 diagrams.

Card 2/2

BORISOV, N.L., inzh.

Mounted bulldozer equipment for road rollers. Mekh.stroi. 17 no.5:
24-25 My '60. (MIRA 13:7)

(Rollers (Earthwork)) (Bulldozers)

BORISOV, N.L.
BPROSPV. N.L., inzh.

The over-all mechanization of small-scale earthwork. Mekh.stroi.
17 no.2:1-5 F '60. (MIRA 13:8)
(Earthwork)
(Excavating machinery)