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Izv. vys. ucheb. zav.; chern. met. 6 no.10:139-148 '63.

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spouts of open hearth furnaces. Ogneupory 30 no.3:32-35 '65.

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Polzunov, A.M.

S/133/60/000/004/001/010
A054/A026

AUTHORS: Kovyryalov, I.P., Engineer; Popel', S.I., Candidate of Technical Sciences; Konovalov, G.F., Engineer; Polzunov, A.M., Engineer

TITLE: The Effect of Deoxidation of Steel and its Treatment by Sodium Silicate on the Percentage of Non-Metallic Inclusions

PERIODICAL: Stal', 1960, No. 4, pp. 305 - 307

TEXT: At the Severskiy metallurgicheskiy zavod (Seversk Metallurgical Plant) the effect of deoxidation by ferromanganese and ferrosilicon, as well as the effect of a treatment with sodium silicate and a sand-scale mixture on the steel in the furnace were investigated. The steel tested had the following composition: C: 0.13 - 0.16%; Mn: 0.30 - 0.40%; Si: \leq 0.03%; P: \leq 0.050%; S: \leq 0.055%. Melting was carried out according to the scrap process, in a basic, black oil fired Siemens-Martin open-hearth furnace. To deoxidation ferromanganese and an addition of blast-furnace ferrosilicon were applied, while for the slagging of floating inclusions on the surface of the molten metal a sand-scale mixture (65%: 35%) was dispersed. The percentage of inclusions in the metal varied between 0.03 - 0.07% and of this

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S/133/60/000/004/001/010
A054/A026

The Effect of Deoxidation of Steel and its Treatment by Sodium Silicate on the Percentage of Non-Metallic Inclusions

percentage the high-melting components (corundum, spinel) were 70 - 90%, deteriorating the quality of steel. The analysis of the test showed that upon adding ferrosilicon the percentage of high-melting inclusions decreased by about 20 - 30%, whereas that of the silicate inclusions increased by about 30 - 50%, while the grain size of the glasslike inclusions also increased (up to 0.3 - 0.5 mm² and more). Thus, under the influence of deoxidation with ferromanganese and ferrosilicon the high-melting components could be slagged more efficiently. Tochinskiy and Perren (Ref. 6) applied low-melting silicates to the removal of inclusions and impurities from the steel. In the process described in the present paper low-melting sodium silicate powder (24.1% Na₂O and 62.8% SiO₂) was applied as fluxing agent which easily forms drops on account of its low surface tension at the gas zone (300 erg/cm²). Sodium silicate was a) either sprinkled on the metal surface in the ingot mold or b) it was added partly to the metal when tapped from the furnace, partly to the ladle when one third full and finally it was also put into the ingot mold. In both test

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S/133/60/000/004/001/0'0
A054/A026

The Effect of Deoxidation of Steel and its Treatment by Sodium Silicate on the Percentage of Non-Metallic Inclusions

series the metal was reduced in the furnace by ferromanganese only. 300 g of a mixture of 65% of sand and 35% of scale was added to one part of the ingot molds, whereas an equal amount of sodium silicate to the other ingot molds. In the slag samples taken from the castings treated without fluxing agents, 30 - 40% spinel, 15% ferric oxide, 10% silicate glass and up to 40% manganese orthosilicate were found. Table 1 shows that when adding sodium silicate to the ladle and to the ingot mold the total amount of inclusions is not affected, but their chemical composition is changed. SiO₂ increased from 10 - 15% up to 48%, whereas the content of the high-melting components (manganese oxide and in many cases ferro-oxide content) decreased, sometimes magnesium and chrome oxide were even completely lacking. The amount of waste products was also reduced by this process. When milling strips from 139 tons of casting treated by sodium silicate, the waste products amounted to 1,329 kg, whereas the corresponding figure from an equal amount of castings treated by sand-scale mixture was 2,125 kg. The plastic properties of the steel also improved (relative elongation increased from 31.8 to 33.2%) ✓

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Abs Jour: Referat. Zh. Biol., No. 1, 1958, 737

Author : Val'vachev, N.I., Pomanov, B.G.

Title : Outbreak of Boyd-Novgorodskaya III Dysentery in a Collective

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Abstract: No abstract.

Card 1/1

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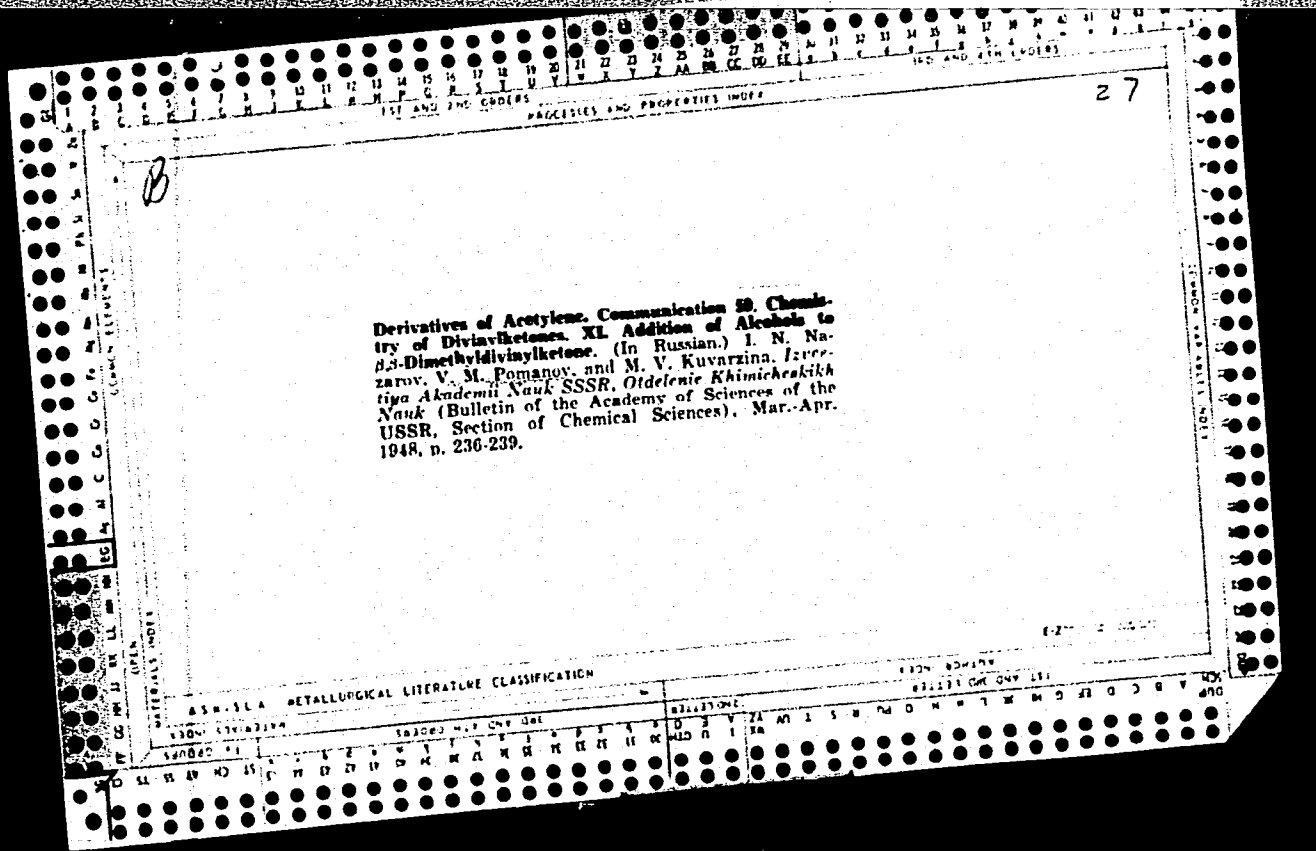
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POMANOVA, YE. A.

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Results of experiments conducted for two years with biotypes of *Salix viminalis* s.l. Observations made on development of these biotypes (two used: one from Ob River area, and other from Il'men Lake region). Describes work done preparatory to studying interbiotypic control against desiccation. Submitted by Academician V. N. Sukachev, 23 Jul 1947.

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21(0)
AUTHORS: Nikol'skiy, S. I., Pomanskiy, A. A. SOV/56-35-3-2/61

TITLE: Investigation of Extensive Atmospheric Showers of Cosmic Radiation Under Dense Substances (Issledovaniye shirokikh atmosferykh livney kosmicheskogo izlucheniya pod plotnym veshchestvom)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 3, pp 618 - 630 (USSR)

ABSTRACT: The present paper deals with investigations of the absorption of atmospheric shower particles in an absorber with a low atomic number in an altitude of 3860 m above sea-level (Pamir Plateau, 1955). Measurements were carried out by means of a special arrangement of ionization chambers and groups of hodoscope counters (Fig 1). For the description see reference 4. The results obtained by measurements appear to prove that in extensive air showers with particle numbers of $10^4 < N < 10^5$ there is, on the average, equilibrium between the nuclear active and electron-photon components

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Investigation of Extensive Atmospheric Showers of Cosmic Radiation Under Dense Substances SOV/56-35-3-9/61

of the shower. This is in contradiction to the hypothesis according to which the formation of extensive showers is assumed to be a result of acts of nuclear interaction with total dissipation of the energy of primary particles; it also indicates the comparatively insignificant part played by fluctuations. The energy of the nuclear active component of a shower with $N < 10^5$ in the lowermost third of the atmosphere exceeds the energy of the electron-photon component by the 1,7-fold of its amount. A considerable part of this energy ($\sim 60\%$) is used for the production of myons and neutrinos. The variation of the absorption coefficient of an extensive air shower as well as the change of the structure of the shower core in transition from showers with $N < 10^5$ to showers with $N > 10^5$ agrees with the assumption (Ref 14) that the character of the elementary act of nuclear interaction is modified at an energy of $E_0 \approx 3 \cdot 10^{14}$ eV. The measured data obtained seem to show that the absorption of shower particles increases at transition to $N > 10^5$. Measurements were

Card 2/3

Investigation of Extensive Atmospheric Showers of Cosmic SOV/56-35-3-9/61
Radiation Under Dense Substances

carried out with the participation of a large group of collaborators of the Fizicheskiy institut AN SSSR (Physics Institute AS USSR) as well as diplomated students of the Fizicheskiy fakul'tet MGU (Faculty of Physics of Moscow State University). The authors thank Professor S.N.Vernov, Professor N.A.Dobrotin, and Professor G.T.Zatsepin for discussing results. There are 7 figures, 3 tables, and 14 references, 11 of which are Soviet.

ASSOCIATION: Fizicheskiy institut im.P.N.Lebedeva, Akademii nauk SSSR (Physics Institute imeni P.N.Lebedev of the Academy of Sciences USSR)

SUBMITTED: April 10, 1958

Card 3/3

POMANSKAYA, L. A. (

PA 241717

USSR/Medicine - Infectious Diseases

Jan 73

"An Instance of the Isolation From Grey Field Mice of a Virulent Strain of Klebsiella pneumoniae Friedlaenderi, L. A. Pomsanskaya, Tula Oblast Antitularema Sta

"Zhur Mikrobiol, Epidemiol, i Immunobiol" No 1, pp 67-68

A virulent strain of K. pneumoniae Fr. was isolated from Microtus arvalis by the Bacteriol Lab of the Tula Oblast Antitularema Sta, which studies in addn to tularemia, other rodent epizootics that might be of danger to humans. The strain was

241717

Investigated by this lab and the Tularemia Lab, Div of Parasitol, Inst of Epidemiol and Microbiol, Acad Med Sci USSR. It was found to be identical with stock cultures of strains one of which was isolated from the corpse of a man who died of a hemorrhagic septic infection, one from the pathologically modified lung of another corpse, and one from a white mouse which died during an epizootic outbreak in a vivarium.

241717

POMANSKAYA, L.A.

Parasitic fungi of Tula Province. Vest.ven.i derm. no.4:61 J1-ag '53.
(MIRA 6:9)

(Tula Province--Fungi) (Fungi--Tula Province)

POMANSKAYA, L.A.

Multiplication of Listeria in the soil. Zhur. mikrobiol.,
epid. i immun. 40 no.6:99-101 Je '63. (MIRA 17:6)

1. Iz Tul'skoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

POMANSKAYA, L.A.; LOTOTSEAYA, V.V.

Listeriosis in newborn infants. Akush. i gin. 39 no.3:57-62
My-Je'63 (MIRA 17:2)

1. Iz Tul'skoy oblastnoy sanitarno-epidemiologicheskoy stantsii
i patologoanatomicheskogo otdeleniya Gorodskoy bol'nitsy No.1
imeni Semashko.

POHANSKAYA, L.A.

Characteristics of strains of *Bacillus tularensis* isolated during a winter epidemic among the Muridae. Zhur.mikrobiol.epid.i immun. no.3:57-59 Mr '54. (MLRA 7:4)

1. Iz oblastnoy protivotulyaremiynoy stantsii (glavnyy vrach Yu.A. Myasnikov). (*Pasteurella tularensis*)

POMANSKAYA, L.A.; TANSON, L.A.

Cardiolipin antigens of the Central Institute of Skin and Venereal Diseases in the serodiagnosis of syphilis. Vest. ven. i derm. no.6: 33-34 N=1 154. (MLRA 8:2)

1. Iz Tui'skogo oblastnogo kozhno-venerologicheskogo dispansera (glav. vrach-zasluzhenny vrach RSPSR L.M.Rabinovich)
(SYPHILIS, diagnosis
serodiag. with cardiolipin antigens)
(CARDIOLIPIN
antigen in serodiag. of syphilis)
(ANTIGENS AND ANTIBODIES
cardiolipin antigen in serodiag. of syphilis)

POMANSKAYA, L.A.

Atypical Lang's tularemia strains. Zhur. mikrobiol. epid. i
immun. no.10:101-102 O '54. (MLRA 8:1)

1. Iz oblastnoy protivotulyaremiynoy stantsii (glavnyy vrach
Yu.A. Myasnikov)

(PASTEURILLA TULARENSIS,
atypical strains)

POMANSKAYA, L.A.

New strains of *Bacterium zopfii*, active crystal-forming strain.
Biul. eksp. biol. i med. 38 no.7:55-59 J1 '54. (MIRA 7:8)

1. Iz Tul'skoy oblastnoy protivotulyaremiynoy stantsii (glavnyy vrach Yu.A.Myasnikov)
(BACTERIUM,
zopfii, active crystal-forming strain)

POMAHSKAYA, L.A. (Tula)

Tinea profunda acquired from white mice. Vest. ven. iderm. no. 3:
53 My-Je '55. (MLRA 8:10)
(RINGWORM)

POMANSKAYA, L.A.

Duration of viability of tularemia bacilli on grain and straw, Zhur.
mikrobiol.epid. i immun. 28 no.4:133-139 Ap '57. (MIRA 10:10)

1. Iz Tul'skoy oblastnoy protivotulyaremnoy stantsii
(PASTEURELLA TULARENSIS, culture
length of survival on grain & straw, eff. of temperature)
(TEMPERATURE, eff.
on length of survival of Pasteurella tularensis on
grain & straw)

POMANSKAYA, L.A.

Methods for disinfecting grain and bulky feeding stuffs infected with the causative agent of tularemia. Veterinariia 34 no.8:77-80 Ag '57. (MLRA 10:8)

1. Tul'skaya oblastnaya sanitarno-epidemiologicheskaya stantsiya. (Tularemia)
(Feeding and feeding stuffs--Disinfection)

POMANSKAYA, L.A.

Methods of studying mixed winter epizootics of tularemia, erysipelas, and listerellosis among murine rodents in straw and unthreshed grain stacks [with summary in English]. Zool. zhur. 36 no. 4:481-492 Ap '57. (MLRA 10:6)

1. Tul'skaya oblastnaya protivotulyaremiynaya stantsiya.
(Rodents as carriers of disease) (Mice)

POMANSEVA, L.A.

Multiple passage method for studying tularemia. Zhur. mikrobiol. epid.
i immun. 29 no.8:7-11 Ag '58. (MIRA 11:10)

1. Iz Tul'skoy oblasti sanitarno-epidemiologicheskoy stantsii.
(TULAREMIA, experimental,
multiple passage in rodents (Rus))

POMANSKAYA, L.A.

Dissociation of *Listerella*. Zhur. mikrobiol., epid. i immun. 41
no.11:79-85 '65. (MIRA 18:5)

1. Tul'skaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.

BELOVA, M.A.; POMANSKAYA, L.A.

Characteristics of capsular bacteria isolated from rodents and humans
in Tula Province. Zhur. mikrobiol., epid. i immun. 40 no.11:80-85 N
'63. (MIRA 17:12)

1. Iz Tul'skoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

POMANSKAYA, L.A.

On the problem of listerial polymorphism. Zhur.mikrobiol.epid.i
immun. 32 no.3:124-129 Mr '61. (MIRA 14:6)

1. Iz Tul'skoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(LISTERIA)

PGMANSKAYA, L. A., MEASNIKOV, YU. A.

"Epidemiological characteristics of various types of rodents in the natural foci of tularaemia." p. 127.

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Oblast Sanitary-Epidemiological Station/Tula

POMANSKAYA, L.A.

Increasing the suitability for examination of smears from brucella cultures by staining them according to Koslovskii's method. Lab. delo 7 no.1:50-51 Ja '61. (MIRA 14:1)

1. Tul'skaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.
(BRUCELLA) (STAINS AND STAINING (MICROSCOPY))

VATAZHINA, V., kand. tekhn. nauk; KHOMENKO, Z., kand. tekhn. nauk;
PANKRATOV, V., inzh.; PANFEROVA, A., inzh.; POMANSKAYA, M.,
inzh.; DEMINA, Ye., inzh.

Modern joint-sealing materials in housing construction.
Zhil. stroi. no.9:5-6 '65. (MIRA 18:11)

POMAZANOV, I.N.; TIKHOMIROV, P.L.

Direct production of cold from solar energy by means of semi-conductors. *Izv.AN Uz.SSR.Ser.fiz.-mat.nauk no.3:52-55 '60.*

(MIRA 13:8)

1. Leningradskaya krasnoznamennaya voyenno-vozdushnaya inzhenernaya akademiya im. A.F.Mozhayskogo.

(Refrigeration and refrigerating machinery)

(Solar energy)

(Semiconductors)

POMAZANOVA, N.P.

Estimating the representativeness of water temperature and salinity as exemplified by the data of the Tetvukhe and Terney Hydrometeorological Stations. Trudy Dal'nevost. NIGMI no.13:52-59 '60.

(MIRA 14:7)

(Maritime Territory--Oceanographic research)

GASTEVA, S.V.; MALINOVSKIY, O.V.; POMAZANSKAYA, L.F.; ULYBINA, I.N.;
GHETVERIKOVA, D.A.

Effect of ionizing radiation on certain aspects of the phosphorus
metabolism of the brain. Trudy Inst.fiziol. 8:533-542 '59.

(MIRA 13:5)

1. Laboratoriya radiobiologii (zaveduyushchiy - D.A. Chetverikov)
Instituta fiziologii im. I.P. Pavlova AN SSSR.

(PHOSPHORUS METABOLISM)

(BRAIN)

(X RAYS--PHYSIOLOGICAL EFFECT)

KRUSHINSKIY, Leonid Viktorovich; FLESS, D.A., otv.red.; POMALEN'KAYA,
O.T., red.; GEORGIYEVA, G.I., tekhn.red.

[Development of animal behavior under normal and pathological
conditions] Formirovanie povedeniia zhivotnykh v norme i pato-
logii. Moskva, Izd-vo Mosk.univ., 1960. 263 p.

(Animals, Habits and behavior of)

(MIRA 13:9)

POMASKINA, A.N.

Fibrinogen content of the blood during menstruation and pregnancy.
Akush.i gin. 36 no.5:14-16 8-0 '60. (MIRA 13811)

1. Iz kafedry biokhimii (zav. - prof. doktor biologicheskikh
nauk I.I. Kotlyarov) Krasnoyarskogo meditsinskogo instituta.
(FIBRINOGEN) (MENSTRUATION) (PREGNANCY)

DENISOV, Ye.V.; ZATSEPIN, V.I.; NIKOL'SKIY, S.I.; POMANSKIY, A.A.
SUBBOTIN, B.V.; TUKISH, Ye.I.; YAKOVLEV, V.I.

Observation of nuclear-active particles and electron-proton
showers with energies of 10^{12} ev. at an altitude of 3860 m.
above sea level. Zhur. eksp. i teor. fiz. 40 no.2:419-425
F '61. (MIRA 14:7)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
(Particles. (Nuclear physics))
(Cosmic rays)

MYZENKO, D.K., inzh.; POMAZUYEV, V.M., inzh.; MIRONCHIK, M.S., inzh.

Gas purification in blast furnaces operating at high pressure
with an enriched blast. Stal' 20 no.2:182-186 F '60.

(MIRA 13:5)

(Blast furnaces) (Gas purification)

POMANSKAYA, L. A.

"Periods of preservation of tularemia bacteria on environmental
objects and means of disinfection of fodder under farming condition."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

POLYANSKAYA, T.G.

Chronology in works on the history of medicine. Sov.zdrav. 19
no.1:92-93 '60.

(MIRA 13:4)

(MEDICINE)

BEKIRBAYEV, D.B.; GRODEL', G.S.; GUL'SHIN, P.A.; KLEPIKOVA, M.S.; PETRUKHIN, .
P.M.; POLYANSKIY, I.P.; RASSOLOV, N.I.; TARASOVA, A.A.; FERTEL'-
MEYSTER, Ya.N.; CHERVINSKIY, M.S.; SHANOVSKAYA, S.S.; KLIMANOV, A.D.,
otv.red.; ZHDKOV, V.V., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.;
KONDRAT'YEVA, M.A., tekhn.red.

[Coal and rock dust control in mines] Bor'ba s ugol'noi i porodnoi
pyl'iu v shakhtakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
gornomu delu, 1959. 499 p. (MIRA 13:6)
(Mine dusts) (Coal mines and mining--Safety measures)

POLYANSKIY, M. Ya.

PHASE I BOOK EXPIRATION SOV/3909

Leningrad, Politekhnikheskiy Institut

Engineralmostroyeniye (Power-Machinery Construction) Moscow
Mashiz 1960, 163 p. (Series: Its: Trudy, No. 204) Errata
slip inserted. 1,600 copies printed.

Sponsoring Agency: NSRSR, Ministerstvo Vozhshgo i srednego spetsial'nogo obrazovaniya.

Resp. Ed.: V.S. Salmov, Doctor of Technical Sciences, Professor;
Ed.: V.I. Bulalin, Candidate of Technical Sciences, Docent; Tech.
Ed.: P.S. Prudnik, Managing Ed. for literature on the Design and
Operation of Machinery (Leningrad Division, Mashiz); P.I. Pesti-
sov, Engineer.

PURPOSE: This book is intended for workers at scientific research
institutes and factory design offices. It may also be useful to
students of advanced courses and applicants specializing in
power-machinery construction.

CONTENTS: This collection of 17 articles deals with analyses of
gas-turbine installations and theoretical and experimental in-
vestigations of the operation of power and transportation machinery,
including turbines, compressors, and internal-combustion engines.
A description is given of recent theoretical and experimental in-
vestigations undertaken by the Department of Power-Machinery Con-
struction, Leningradskiy Politekhnikheskiy Institut (Leningrad
Polytechnical Institute). The articles include analyses of the
operation of gas-turbine engines at high speeds of operation and the per-
formance of methods of calculating and designing new power equip-
ment. References follow several of the articles.

- 5. Bulalin, V.I. Some Features of One Type of Gas-Turbine Sys- 43
tem
- 6. Armeniyev, L.V. Calculation of Transition Processes in Gas- 61
Turbine Engines
- 7. Solovnev, K.P. On the Question of Similarity of Temperature 67
Fields in Turbomachinery Elements
- 8. Mitrevskiy, V.A. On the Determination of the Boundaries of 77
the Operating Regime in Sparkless Diesel-Engine Compressors
- 9. Kosin, A.F. Investigation of the State of Thermal Stress in 84
Two-Stroke Engines
- 10. Mukharlov, R.B. Investigation of the Combustion Process and 99
the Gasification of the Pulverized-Coal Flame in Furnace Pipe Boxes With Liquid Slag Removal
- 11. Polyanskiy, M.Ya. Analysis of the Dispersion of Boiler 105
Sludge
- 12. Polyanskiy, M.Ya. and K.Y. Meshkov. On Chemical Destruct- 115
tion of Deposits for Low-Pressure Steam Boilers
- 13. Sopchik, G.N. and Tu.P. Volkov. On the Question of Fuel 120
Economy of a Vehicle With a Hydrochemical Transmission
- 14. Galyshov, V.D. On the Calculation of Certain Parameters of 128
the Braking Process in a Moving System
- 15. Eryukov, A.D. Synthesis of Planetary Gears With Three De- 133
grees of Freedom
- 16. Eryukov, A.D. Experimental Investigation of the Efficiency 151
of Planetary Mechanisms With Two Degrees of Freedom
- 17. Valyshov, V.D. Comparative Testing of the Wear Resistance 159
of Friction Linings in Band Brakes

AVAILABLE: Library of Congress
Card 5/5

AC/PM/19
8-1-80

Г. И. П. - А. А. П. П. С. Н.
USSR/Microbiology. Hemoglobinophilic Bacteria
Microbes of Tularemia

F-5

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 62438

Author : Pomanskaya L.A.

Inst : -

Title : Methods of Sterilizing Grain and Bulky Feeds
Inoculated with a Tularemia Stimulant

Orig Pub : Veterinariya, 1957, No 3, 77-80

Abstract : No abstract

Card : 1/1

17(2)

SOV/16-59-9-39/47

AUTHOR: Pomanskaya, L.A.

TITLE: A Strain of B. Pseudotuberculosis Rodentium Pfeiffer Isolated From Black Rat (Rattus Rattus L.). Author's Summary

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 9, pp 132-133 (USSR)

ABSTRACT: This is a characterization of B. Pseudotuberculosis rodentium pfeiffer, isolated from Rattus rattus L. in the region of Tula. Its biological properties were somewhat similar to those of strains isolated by Klimova and Bulanova.

ASSOCIATION: Tul'skaya oblastnaya sanitarno-epidemiologicheskaya stantsiya (Tula Oblast' Sanitary-Epidemiological Station)

SUBMITTED: January 9, 1958

Card 1/1

DYATLOVA, V.P.; POMANSKAYA, M.P.; AKISHINA, R.I.

Devices for determining adhesive strength. Zav.lab. 29 no.11:1375
'63. (MIRA 16:12)

DYATLOVA, V.P., kand.tekhn.nauk; POMANSKAYA, M.P., inzh.

Adhesive compounds for finishing materials made of plastic. Stroi.
mat. 7 no.9:32-33 S '61. (MIRA 14:11)
(Adhesives) (Plastics)

KARKHANINA, Neonila Yakovlevna; POLYANSKAYA, L.O. [Polians'ka, L.O.],
red.; MATUSEVICH, S.M. [Matusevych, S.M.], tekhn. red.

[Technology of semiconducting materials] Tekhnologiya napivprovidny-
kovykh materialiv. Kyiv, Derzh. vyd-vo tekhn. lit-ry, 1961. 326 p.
(MIRA 14:11)

(Semiconductors)

BERNSHTEYN, M.L., kand.tekhn.nauk; POLYANSKAYA, L.V., inzh.

Effect of peening on the structure and properties of the VT2
titanium alloy. Trudy Sisk.metalloved.i term.obr.met.NTO mash.prom.
no.2:18-24 '60. (MIRA 14:4)

(Titanium alloys---Metallography)

VAYNER, Ye.M.; DYATLOVA, V.P.; POMANSKAYA, M.P.; GRABYL'NIKOVA, K.A.

Production of rubber linoleum and a mastic for gluing it down.
Stroi.mat. 8 no.7:26-27 JI '62. (MIRA 15:8)
(Linoleum) (Glue)

POMARNACKI, Leopold (Radom)

Birds and feeders. Wszechswiat no.1:12-15 Ja '63.

POMARNACKI, L.

The *Lepus variabilis* L. Wszechswiat no.11:291-292 N '62.

USSR/Human and Animal Physiology - Circulation.

V-4

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18153

Author : V.D. Pomaskin

Inst : -

Title : A Few Observations on A.M. Sigai's Article. "The Third
(Coronary) Circulatory System and Its Significance in
Cardiology".

Orig Pub : Terapevt. arkhiv, 1956, 28, No 5, 81-82

Abstract : No abstract.

Card 1/1

L 11448-67 EWT(d)/EWF(1) IJP(c)

ACC NR: AP6030650

SOURCE CODE: UR/0020/66/169/006/1289/1292 4
23

~~REPORT~~ Pyatetskiy-Shapiro, I. I.; Volkonskiy, V. A.; Levina, L. V.; Pomanskiy, A.

ORG: Central Economics Mathematics Institute, Academy of Sciences SSSR (Tsentral'nyy ekonomiko-matematicheskii institut Akademii nauk SSSR)

TITLE: An iterative method of solving problems of integral programming

SOURCE: AN SSSR. Koklady, v. 169, no. 6, 1966, 1289-1292

TOPIC TAGS: iteration, iterated integral, mathematic analysis, integral programming

ABSTRACT: The iterative method proposed consists of the following: where it is required to maximize the linear functional

$$\sum_{j=1}^n c_j x_j \tag{1}$$

under condition

$$\sum_{j=1}^n a_{ij} x_j \leq b_i, \quad i = 1, \dots, m, \tag{2}$$

where the unknown quantities x_j ($j = 1, \dots, n$) take on the value 0 or 1 and all coefficients a_{ij} , c_j , b_i are non-negative, the solution is sought as follows. The

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UDC: 519.95

L 11448-67

ACC NR: AP6030650

quantity b_0 is fixed and the system of $m+1$ inequalities

$$\sum_{j=1}^n c_j x_j > b_0, \quad \sum_{j=1}^n a_{ij} x_j \leq b_i, \quad i = 1, \dots, m, \quad (3)$$

is solved by the iterative method. The initial selection x_j^0 is arbitrary. It is assumed the k -th step produces the set x_j^k ($j = 1, \dots, n$). The following equation system is computed

$$Ax \leq b, \quad (4)$$

Using random selection, the components of vector x_j^k with identical probability are changed, $p = \min(c, \max \Delta_i)$. It is assumed that $c = 1/2$. Thus, a new set $x^{(k+1)}$ ($j = 1, \dots, n$) is produced, and the subsequent iteration is performed. When all Δ_i disappear, the solution is found. Then, increasing b_0 , solution is performed for a new system which is closer to the solution of the initial problem. The process is completed when the system of inequalities ceases to be solved after a fixed number of iterations. The paper was presented by Academician L. V. Kantorovich, Sep 7 1965. The authors express their gratitude to A. D. Shapiro for participating in composition of the examples and discussions of the results. Orig art. has: 1 table and 4

formulas.

SUB CODE: 12/ SUBM DATE: 16Nov65/ ORIG REF: 004/ OTH REF: 001

Card 2/2 jb

NIKOL'SKIY, S.I.; POMANSKIY, A.A.

Investigation of extensive cosmic ray showers under a dense
substance [with summary in English]. Zhur. eksp. i teor. fiz.
35 no.3:618-630 S '58. (MIRA 12:3)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR.
(Cosmic rays)

POMANSKIY, A.A.

New trend in the investigation of cosmic rays. Vest. AN SSSR
32 no.11:130-131 N '62. (MIRA 15:11)
(Yakutia--Geophysical observatories)
(Cosmic rays)