

CA

Equilibrium in solutions of cobalt and nickel ammoniates at elevated pressure and temperature. V. G. Tronov, S. M. Bondin, and A. L. Khrenova. *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1949, No. 23, 110-22 (1949); cf. C.A. 43, 5561. The solv. of Co and Ni powders in 25% NH₄OH satd. with NH₄Cl under 50 atm. of air increased up to approx. 150°, then dropped. The oxides behaved similarly. The solv. as above with H in place of air was lower but analogous. This behavior is explained by formation of Co(NH₄)₆Cl₆ and Co(NH₄)₆Cl₆ under air and Co(NH₄)₆Cl₆ and Ni(NH₄)₆Cl₆ under H. The cobalt hexammines are sparingly sol. in NH₄OH soln. of NH₄Cl. The decrease in solv. above 150° apparently caused by an increased rate of hydrolysis. The e.m.f. of the systems was detd. at 175 and 200° and 40 atm. of H. The data indicated the equilibria Co + 4NH₃ + 2NH₄Cl ⇌ Co(NH₄)₆Cl₆ + 2H, and 2Co(OH)₂ + 4NH₃ + 6NH₄Cl ⇌ 2Co(NH₄)₆Cl₆ + 6H₂O. The formation of these complexes when Co dissolves in ammoniacal soln. coupled with increased rate of hydrolysis at elevated temp. may complicate the leaching of Co and Ni from their oxides. This was tested on tech. samples. At 150° and 25 atm. with 25% NH₄OH the rates of leaching of Co and Ni were similar; they decreased with time. In the presence of NH₄Cl and (NH₄)₂SO₄ 61-87% of initial Ni dissolved and only 4-5% of Co. In the presence of (NH₄)₂CO₃ the amt. of Co in soln. increased considerably.

M. Hovelt

CA

Reduction of cobalt, nickel, and copper from complex compounds with hydrogen under pressure. V. G. Tronov, S. M. Bondin, and A. L. Khrenova. *Izvst. Sektora Platiny i Drugikh Metal. Metall. Inst. Obshchel i Neorg. Khim., Akad. Nauk S.S.R.*, No. 23, 123-31 (1949). Co(NH₃)₆SO₄·2, Ni(NH₃)₆SO₄·1.2, and Cu(NH₃)₆SO₄·3 (g) were separately placed in 100 ml. of H₂O contg. 24-25% of free NH₃ at 20-200° and 80-75 atm. of H₂. The solns. were vigorously stirred. The quantity of reduced metal in each of the solns. was detd. Up to 100° no metal appeared. At 125° all 3 metals were reduced but to a varying extent, Cu most, Co least. At 175° all of Cu and Ni was reduced and at ... Co was reduced completely within 2 hrs. Heating Co(NH₃)₆Cl₂ under 50 atm. of H₂ gave complex results in which hydrolytic and reduction reactions occurred. Addn. of NH₄OH and NH₄Cl to purpuro salt heated at 200° under 50 atm. of H₂ arrested reduction and solubilized hydrolysis products. Attempts at selective leavng. of Co and Ni from their hexamine chlorides at elevated temps. and H pressure were unsuccessful.

M. Hesch

BONDIN, S. M.

PA 234T16

USSR/Chemistry - Rhenium Compounds 1 Sep 52

"The Use of I. I. Chernyayev's Principle of
Transinfluence in the Synthesis of Complex Com-
pounds of Rhenium in Nonaqueous Solutions,"
V. G. Tronev, S. M. Bondin

"Dok Ak Nauk SSSR," Vol 86, No 1, pp 87-90

$(\text{NH}_4)_2\text{ReCl}_4$, prep'd by reducing $(\text{NH}_4)_2\text{ReCl}_6$, was
treated with pyridine in an acetone soln. Two
isomers of RePy_2Cl_2 resulted: the cis isomer,
having a grayish-green color, and the trans iso-
mer, having a light green color. Presented by
Acad I. I. Chernyayev 28 Jun 52.

234T16

BONDIN, S. M. and TORNEV, V. G.

"Preparation of Acid Complex Rhenium Compounds by Reduction of Perrhenates With Hydrogen Under Pressure".

Khimiya Redkikh Elementov, No. 1, pp 40-44, 1954.

Reduction of hydrochloric acid solutions of ammonium perrhenates with hydrogen under pressure results in the formation of acid complex compounds of Re (4+), Re (3+), and Re (2+) with the compositions $(\text{NH}_4)_2\text{ReCl}_6$ (well-formed green octahedral crystals), $(\text{NH}_4)_3\text{ReCl}_6$ (fine yellow crystals), K_2ReCl_6 (blue-black needles), K_2ReCl_6 (yellowish-green octahedral crystals), and K_3ReCl_6 (fine yellow crystals). (RZhKhim, No 4, 1955)

SO: Sum No 884, 1956

PERESYPKIN, V.; LESOVY, M.; BONDIN, V.

Helicopter in the protection of tobacco. Zashch. rast. ot vred. i
bol. 10 no. 2:44-45 '65. (MIRA 18:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut zashchity rasteniy
i Gosudarstvennyy nauchno-issledovatel'skiy institut Grazhdanskoy
aviatsii.

124-57-2-2531

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 143 (USSR)

AUTHOR: Bondin, V. F.

TITLE: The Influence of a Local Weakening (Central Circular Hole) on the Tensile Resistance of a Wooden Building Element [Vliyanie mestnogo oslableniya (tsentral'nogo krugovogo otverstiya) na soprotivleniye derevyannogo elementa rastyazheniyu]

PERIODICAL: Sb. nauch. rabot Belorus. politekhn. in-ta, 1955, Nr 48,
pp 74-85 *

ABSTRACT: Description of an experimental investigation on pine specimens with a tangential arrangement of the annual rings on a cross section having dimensions of 10x100 mm. The specimens were up to 1140 mm long; the length of the working portion was 400 mm. The moisture content of the wood was 11-15%, its density 0.44-0.61 g/cm³. The transition from the working portion to the gripping portions was accomplished by means of faired increases in thickness. The strain rate during the tests was 2 mm/min. The specimens were weakened by means of a 5- to 60-mm diameter circular hole. The tests confirm the type of failure with attendant formation of

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124-57-2-2531

The Influence of a Local Weakening (cont.)

longitudinal cracks tangent to the weakening contour, which had been previously revealed by Yu. M. Ivanov and Ye. L. Rozen. It is established that the force P corresponding to the incipient formation of the first fissure decreases by almost 75% as the diameter of the hole is increased from 5 to 50 mm, and that in the hole-diameter (d) range from 15 to 60 mm the following relationship holds true: $P = (946,000/d^2) + 1040$. The stress corresponding to that P must be considered as the strength characteristic of the weakened element; the rupture strength is not a suitable criterion, since it varies over a wide range of values (the lowest of which coincides, in fact, with that corresponding to P). The computed value of this load should be used in limiting-state calculations and in the determination of the stresses in wooden elements subjected to tensile loads wherein reduction coefficients from 1.00 to 0.43 should be employed to account for circular holes having diameters from 15 to 40% of the width of the element. Bibliography: 4 references.

1. Structures--Mechanical properties 2. Wood--Properties Yu. M. Ivanov

Card 2/2

BONDIN, V.F.

Approximate determination of stresses in a rectangular orthotropic plate of finite dimensions symmetrically compressed by discontinuous loading. Izv. vys. uch. zav.; stroi. i arkhit. 5 no.4:44-52 '62.

(MIRA 15:9)

1. Novosibirskiy inzhenerno-stroitel'nyy institut imeni Kuybysheva.
(Elastic plates and shells)

L 16740-63

EWP(r)/EWT(m)/BDS AFFTC

S/124/63/000/004/031/064

51

AUTHOR: Bondin, V. F.TITLE: Approximate determination of stresses in a rectangular orthotropic plate of finite dimensions, with symmetrical compression by an intermittent load
26PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1963, 5, abstract 4V31
(Izv. vyssh. uchebn. zavedeniy. Str-vo i arkitekt., no. 4, 1962, 44-52)TEXT: The author studies the elastic equilibrium of an orthotropic strip of width $2 h$, of infinite and finite length, loaded by normal stresses distributed uniformly on boundary portions symmetrical with respect to the axis of the strip, x . For an infinite strip with load repeated periodically through equal intervals $2 l$, a solution is derived with the help of the known stress function; this is in the form of a series containing the cosines of the argument $k\pi x/l$, where $k = 1, 2, 3, \dots$ (See Lekhnitskiy, S. G., Anisotropic plates, Moscow, Gostekhizdat, 1957, Section 17).For a band of finite length l and $2 l$, the author derives an exact (as compared with the classical one) solution: to the solution for the infinite strip, strictly satisfying the conditions on sides $y =$ plus or minus h , is added a solution corresponding to the stress function in the form of a series containing the cosines

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Approximate determination of

of the argument $k\pi x/h$ ($k = 1, 2, 3, \dots$) having analogous structure.

The coefficients of the second series are so determined that precisely the conditions of length $2 h$ are satisfied on the perpendicular sides. The final expressions for the stresses now will not strictly satisfy the conditions on the longitudinal sized $y =$ plus or minus h ; the author however, considers that under the circumstances in question this is not important. He gives a number of graphics for the stress distribution on the longitudinal and transverse sections for a different disposition of the stressed portions for $l = 2 h$ and $l = 4 h$, constructed for material of pine wood; certain of these are compared with graphics for stress distribution in an isotropic strip of the same dimensions. S. G. Lekhnitskiy.

[Abstracter's note: Complete translation.]

Card 2/2

STAROSTIN, S.G., kand. sel'skokhoz. nauk; BONDIN, V.P., inzh.

Helicopters in protecting orchards and vineyards. Zashch. rast.
ot vred. i bol. 4 no.2:15-17 Mr-Ap '59. (MIRA 16:5)

(Aeronautics in agriculture)
(Spraying and dusting in agriculture)

BONDIN, V.P.; SVECHNIKOV, I.D.; CHIGAREV, G.A.; SAZONNIK, Kh.V.; SANIN, V.A.;
FOMYUK, M.K.

Possible methods for aerial chemical control of the Colorado
beetle. Zashch. rast. ot vred. i bol. 6 no.9:47-49 S '61.
(MIRA 16:5)
1. Gosudarstvennyy nauchno-issledovatel'skiy institut Grazhdanskogo
vozdushnogo flota, Vsesoyuznyy institut zashchity rasteniy i
Ukrainskiy nauchno-issledovatel'skiy institut zashchity rasteniy.
(Aeronautics in agriculture) (Potato beetle--Extermination)

BONDIN, V.P., inzh.

Improve the quality of chemical control of the Colorado beetle from the airplane. Zashch.rast.ot vred.i bol. 7 no.5:12-13 My '62.

(MIRA 15:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut Grazhdanskogo vozдушного флота.

(Potato beetle--Extermination) (Aeronautics in agriculture)

BONDIN, V.P.; SVECHNIKOV, I.D.; CHIGAREV, G.A.; PANAFIDIN, K.A.; MEZIN, A.F.; KUDEL', K.A., kand.biolog.nauk (Kiyev); NOVODED, M.F., mladshiy nauchnyy sotrudnik (Kiyev)

Mist spraying against the Colorado beetle. Zashch.rast.ot vred.i bol. 7 no.6:50-53 Je '62.
(MIRA 15:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut Grazh-danskogo vozdushnogo flota, Vsesoyuznyy institut zashchity rasteniy i Ministerstvo sel'skogo khozyaystva Belorusskoy SSR (for Bondin, Sevchnikov, Chigarev, Panafidin, Mezin). 2. Ukrainskiy institut zashchity rasteniy (for Novoded).

(Potato beetle) (Spraying and dusting)

BONDIN, V.P.

Aerial spraying in controlling the Colorado beetle. Zashch. rast.
ot vred. i bol. 6 no.7:39-40 J1 '61. (MIRA 16:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut Grazhdanskogo
vozdushnogo flota.
(Potato beetle--Extermination) (Aeronautics in agriculture)

PANAFIDIN, K.A.; SLUTYY, M.F.; BONDIN, V.P.

Helicopter in the control of the Colorado beetle. Zashch. rast. ot
vred. i bol. 8 no.7:45 Jl 63. (MIRA 16:9)

1. Vsesoyuznyy institut zashchity rasteniy, Beregovskoye proizvod-
stvennoye upravleniye i Gosudarstvennyy nauchno-issledovatel'skiy
institut Grazhdanskogo vozduzhnogo flota.

BEREZKIN, P.N., inzh.; BONDIN, Ya.A., inzh.; GRIGOROV, G.Ya., inzh.;
DURNOVSKIY, V.I., inzh.; KOZHEUROV, P.I., inzh.; NARTOV, Ya.G.,
inzh.; RAZSHIGAYEV, A.F., inzh.; RAYEVSKIY, S.A., inzh.;
SAPOZHNIKOV, N.S., inzh.; TELIPAN, M.G., inzh.; CHEREMOVSKIY,
Yu.I., inzh.; CHERNOV, D.A., inzh.; DUGINA, N.A., tekhn.red.

[ChTZ tractors] Traktory ChTZ. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1957. 101 p. (MIRA 11:5)
(Tractors)

BALZHI, M.F.; BEREZKIN, P.N.; GOL'DSHTEYN, Ya.Ye.; GAL'PERIN, Ye.B.;
YEDLICHKO, V.V.; KERAS, A.F.; LEKUS, I.D.; POTEKUSHIN, N.V.;
POZDNYSHOV, V.M.; SUBBOTIN, N.A.; SAVINTSEV, R.I.; TAMAROVSKIY,
V.M.; SHEREMET'YEV, A.D.; BAKSHI, O.A., kand. tekhn. nauk,
retsenzent; BONDIN, Ye.A., inzh., retsenzent; BOYKO, F.I., inzh.,
retsenzent; VASIN, Yu.P., inzh., retsenzent; LAZAREV, A.A., inzh.,
retsenzent; SOROKIN, A.I., inzh., retsenzent; KON'KOV, Arkadiy
Sergeevich, dots., red.; DUGINA, N.A., tekhn. red.

[Economy of metals in the machinery industry]Ekonomiya metallov
v mashinostroenii. [By]M.F.Balzhi i dr. Moskva, Mashgiz, 1962.
235 p. (MIRA 16:2)

(Machinery--Design and construction)
(Metals, Substitutes for)

GOL'DSHTEYN, Ya.Ye.; BELIKOV, A.M., kand. tekhn. nauk, retsenzent;
GLADKOVSKIY, V.A., kand. tekhn. nauk, retsenzent;
KOROTUSHENKO, G.V., kand. tekhn.nauk, retsenzent; BONDIN
Ye.A., laureat Gosudarstvennoy premii inzh., retsenzent;
KALETINA, A.V., ved. red.; DUGINA, N.A., tekhn.red.

[Low-alloy steel in machinery manufacture] Nizkolegirovannye
stali v mashinostroenii. Moskva, Mashgiz, 1963. 239 p.
(MIRA 16:8)
(Machinery--Design and construction) (Steel alloys)

KOBYLYANSKIY, D., kand. tekhn. nauk; BONDIN, Yu.; NAYMAN, I.; RAYKHMAN, S.

Technological information. Okhr. truda i sots. strakh. 6
no. 3:33-37 Mr '63. (MIRA 16:4)

(Industrial safety) (Work clothes)

BONDIN, Yury Nikolayevich; FOEL', V.I., nauchnyy red.; CHEKHOVSKAYA,
T.P., red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Safety regulations for workers engaged in the production of
asphalt concrete] Pamiatka po tekhnike bezopasnosti dlia ra-
bochikh po proizvodstvu asfal'tobetona. Moskva, Gos. izd-vo
lit-ry po stroit., arkhit. i stroit. materialam, 1961. 18 p.
(MIRA 15:3)

(Asphalt concrete)

BONDIN, Yuriy Nikolayevich; TABUNINA, M.A., red. izd-va; MOCHALINA,
Z.S., tekhn. red.

[Handbook on accident prevention for the autoclave operator at
silicate plants] Pamiatka po tekhnike bezopasnosti dlia avtoklav-
shchika na silikatnykh zavodakh. Moskva, Gosstroizdat, 1962.
18 p.

(Autoclaves--Safety measures)

(MIRA 15:12)

BONDIN, Yuriy Nikolayevich; TABUNINA, M.A., red. izd-va; KASIMOV,
D.Ya., tekhn. red.

[Handbook on accident prevention for workers preparing silicate
paste at silicate plants] Pamiatka po tekhnike bezopasnosti dlia
rabochikh po zagotovke silikatnoi massy na silikatnykh zavodakh,
Moskva, Gosstroizdat, 1962. 19 p. (MIRA 16:3)
(Building materials industry--Safety measures)

BONDIN, Yu.N., inzh.; TABUNINA, M.A., red.izd-va; RODIONOVA, V.M.,
tekhn. red.

[Guide to safety measures for a press operator in the manufacture of silicate bricks] Pamiatka po tekhnike bezopasnosti dlia
pressovshchika silikatnogo kirkicha. Moskva, Gosstroizdat,
1962. 13 p. (MIRA 15:10)

(Brickmaking—Safety measures)

BONDIN, Yury Nikolayevich; TABUNINA, M.A., red.; TARAKHOVA, K.Ye.,
tekhn.red.

[Safety manual for operators of bitumen melting plants]
Pamiatka po tekhnike bezopasnosti dlia mashinistov bitu-
moplavil'nykh ustyanovok. Moskva, Gosstroizdat, 1963. 19 p.
(MIRA 16:8)

(Bituminous materials)

BONDIN, Yuryi Nikolayevich; TABUNINA, M.A., red.

[Safety manual for the operation of straightening rollers, power shears, and punch presses] Pamiatka po tekhnike bezopasnosti pri rabote na pravil'nykh val'tsakh, privodnykh nozhnitsakh i dyroprobivnykh pressakh. Moscow, Stroizdat, 1964. 33 p. (MIRA 18:12)

BONDIN, Yuriy Nikolayevich; TABUNINA, N.A., red.

[Safety manual for the operation of power-driven rollers, power shears, and punch presses] Famiatka po tekhnike bezopasnosti pri rabote na pravil'nykh val'tsakh, privodnykh nozhnitsakh i dyreprobivnykh pressakh. Moskva, Stroizdat, 1964. 33 p.
(MIRA 17:6)

BONDIN, Yuriy Nikolayevich; TABUNINA, M.A., red.

[Safety manual for operators of automotive cranes,
tracklaying cranes and cranes on pneumatic tires]
Pamiatka po tekhnike bezopasnosti dlja mashinistov
avtomobil'nykh kranov, kranov na gumenichnom i pnev-
mokolesnom khodu. Moskva, Stroizdat, 1964. 73 p.
(MIRA 17:9)

NOSOV, M.P.; BONDINA, L.

Effect of the duration of the maturing process on the orientation
and properties of capron filaments. Khim.volok no.4:71-73 '62.
(MIRA 15:8)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta iskusstvennogo volokna.
(Nylon)

L 54812-65 EWT(m)/EWG(v)/EWP(j)/T PC-4/Pe-5 PM

ACCESSION NR: AP5013979

UR/0183/65/000/003/0015/0016
617.494.675.004.12

AUTHORS: Nosov, M. P.; Bondina, L. N.

TITLE: The effect of aging time on drawing and properties of caprone fiber

SOURCE: Khimicheskiye volokna, no. 3, 1965, 15-16

TOPIC TAGS: caprone, aging process, drawing, elastic deformation, elastic stress, elasticity, rupture strength

ABSTRACT: This work is a repetition of an earlier investigation by M. P. Nosov and L. N. Bondina (Khim. volokna, No. 4, 71, 1963) and was carried out to verify the earlier results challenged by V. Gröbe and H. Versäumer (Faserf. u. Textilt., 7, 288, 1963). The latter two claimed that a 4-hour aging of caprone material was necessary to produce a hexagonal crystalline modification and assure a high strength fiber. They also questioned the earlier conclusion that a 100-day storage of undrawn fiber at 21 ± 10 and $60 \pm 5\%$ humidity would not affect its strength and elastic properties. The results obtained in the repeated experiments sustain the earlier findings. They reveal that fiber elasticity, its strength, and birefringence are practically unaffected by a holding time up to

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ACCESSION NR: AP50139779

720 hours. A loss of elasticity did not impair the strength and molecular orientation of the fiber because these properties do not depend on the crystallinity and the mesomorphic modification ratio in disoriented fiber. According to Hiroshi Hattori and Jasuo Takagi (Bull. Chem. Soc. Japan, 36, No. 6, 675, 1962), at maximum drawing, the fiber's birefringence, its relative strength, and its shrinkage in boiling water do not depend on the holding time or thermal treatment of undrawn fiber. This independence of synthetic material is explained theoretically by N. V. Milkaylov (Khim. volokna, No. 1, 7, 1962) by its relation to the conditions of transfer and rearrangement of supermolecular structural elements. At long holding time the increased internal stresses cause the destruction of large elements and the origin of new ones, thus averaging the fiber structure. In this process the temperature-time conditions are important rather than the initial crystalline structure. For this reason, the suggested 4-hour aging cannot be a ruling condition for securing the high strength of fiber. Orig. art. has 1 table.

ASSOCIATION: Kiyevskiy filial VNIIIV (Kiev Branch of VNIIIV)

SUBMITTED: CIApr64

ENCL: 00

SUB CODE: MT,MZ

NO REF Sov: 002

OTHER: 002

Card 2/2

BONDINA, V. A.

ANDREEVA-GALANINA, Ye.Ts., professor; BONDINA, V.A., nauchnyy sotrudnik.

Some data on the galvanic skin reflex in disruptions of peripheral
nerve functions due to production causes. Trudy ISGMI 14:12-21 '53.
(Reflexes) (Nervous system--Diseases) (MLRA 7:9)

BONDINA, V.A., nauchnyy sotrudnik

Study of unconditioned vascular reflexes in dogs with acute blood loss following their treatment with blood transfusion and syncol instillations. *Akt.vop.perel.krovi* no.4:124 '55. (MIRA 13:1)

1. Laboratoriya eksperimental'noy patologii Leningradskogo instituta perelivaniya krovi (zav. laboratoriyyey - chlen-korrespondent AMN SSSR, prof. I.R. Petrov).

(REFLEXES) (BLOOD--TRANSFUSION) (DEXTRAN)

BONDINA, V.A., starshiy nauchnyy sotrudnik; IL'INSKAYA, I.V., starshiy nauchnyy sotrudnik; KOROSTOVSEVA, N.V., mladshiy nauchnyy sotrudnik

Influence of blood loss on the course of radiation sickness. Akt.vop. perel.krovi no.6:41-57 '58. (MIRA 13:1)

1. Laboratoriya eksperimental'noy patologii Leningradskogo instituta perelivaniya krovi (zav. laboratoriyy - chlen-korrespondent AMN SSSR prof. I.R. Petrov).

(RADIATION SICKNESS) (HEMORRHAGE)

BONDINA, V.A., starshiy nauchnyy sotrudnik; TUKACHINSKIY, S.Ye., starshiy nauchnyy sotrudnik

Determination of the volume of circulating blood experimentally by means of radioactive iron. Akt.vop.perel.krovi no.6:288-295 '58.
(MIRA 13:1)

1. Laboratoriya eksperimental'noy patologii (zav. laboratoriyyey - chlen-korrespondent AMN SSSR prof. I.R. Petrov) i biofizicheskaya laboratoriya (zav. laboratoriyyey - starshiy nauchnyy sotrudnik S.Ye. Tukachinskiy) Leningradskogo instituta perelivaniya krovi.
(BLOOD--CIRCULATION) (IRON--ISOTOPES)

BONDINA, V A.

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PHASE I BOOK EXPLOITATION

SOV/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so
dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology.
v. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor
M[ikhail] N[ikolayevich] Pobedinskiy [Doctor of Medicine]) Leningrad.
Tsentr. n-ial. in-t med. radiologii M-va zdravookhraneniya SSSR, 1960.
142 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis,
and therapy of radiation diseases. Individual articles describe investigations
on the biological effects of radiation carried out by workers of the Central
Scientific Research Institute for Medical Radiology of the Ministry of Public
Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii Ministerstva zdravookhraneniya SSSR] during 1958-59. The following

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Problems in Radiation Biology (Cont.)

SOV/5435

topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

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4.	[author, Academy of Medical Sciences USSR], V. A. Bondina, V. N. Polikarpova. Use of the Dextran-Type Synthetic Colloid Solutions in the Treatment of Radiation Sickness	376
5.	A. M. G. A. Bel'shakova, and V. D. Lashchenko. Effect of Antifibrinolytic Preparations [gangliolitiki] on the Course and Outcome of Experimental Radiation Sickness	386

PETROV, Ioakim Romanovich prof.; FILATOV, Antonin Nikolayevich, zasl. deyatel' nauki, prof.; Prinimali uchastiye: BOGOMOLOVA, L.G., prof.; BONDINA, V.A., st. naychnyy sotr.; DEPP, M.Ye.; CHAPLYGINA, Z.A.; SEMENOVA, Ye.A.; SARKISOV, M.A., red.; ONOSHKO, N.G., tekhn. red.

[Plasma substituting solutions] Plazmozameashchayushchie rastvory. Izd. 2. Leningrad, Medgiz, 1963. 246 p. (MIRA 16:7)

1. Deystvitel'nyy chlen AMN SSSR (for Petrov). 2. Chlen-korrespondent AMN SSSR (for Filatov). 3. Zaveduyushchiy nauchnoy bibliotekoy Leningradskogo instituta perelivaniya krovi (for Semenova).

(BLOOD PLASMA SUBSTITUTES)

BONDINA, V.A. (Leningrad)

Treatment of complications related to transfusion of blood experimentally contaminated by bacteria. Pat. fiziol. i eksp. terap. 6 no.6: 54-56 N-D'62 (MIRA 17:3)

1. Iz laboratorii eksperimental'noy patologii (zav. - deystvitel'nyy chlen AMN SSSR prof. I.R.Petrov) Leningradskogo ordena Trudovogo Krasnogo Znameni instituta perelivaniya krovi.

PETROV, I.R., prof.; BONDINA, V.A.

Use of massive exchange transfusion of blood in the compound treatment of complications following transfusion of infected blood. Probl. gemat. i perel. krovi 9 no.5:13-19 My '64.

(MIRA 18:3)

1. Leningradskiy nauchno-issledovatel'skiy institut berelivaniya krovi (dir.- dotsent A.D. Belyakov, nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.N. Filatov). 2. Deystvitel'nyy chlen AMN SSSR (for Petrov).

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

Polenov, A.L. and Bondirchuk, A.V. "Some far-reaching results of surgical treatment of bullet wounds of nerve trunks of limbs," Trudy XXV Vsesoyuz. s'ezza Khirurgov. Moscow, 1948, p. 377-88

SO: U-3264, 10 April, 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

BONDOL, Al.

An effective control; practical measures should be taken. Munca
sindic 6 no.8:15-17,27 Ag '62.

BONDOL, Al.

Guidance and active mobilization of the section trade-union organizations, important condition for the improvement of the trade-union activity. Munca sindic 6 no.9:54-56 S '62.

BONDOL, Al.

Some characteristics of the struggle of strikes in the capitalist countries during recent years. Munca sindic 6 no.10:55-58 0 '62.

BONDCC, Al.

Let's use good experience in the training organization of the skeleton staff of the Rumanian Trade Unions. Nunca sindic 6 no.4:10-13 Ap '62.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

BONDOL, Al

The signification of worker struggles in Spain. Munca sindic 6
no.7:48-52 Jl '62.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

BONDOL, Al.

Our control is our conscience. Munca sindic 6 no.6:58-59
Je '62.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

BONDOKOV, Khristo

Gas-turbine automobiles. Nauka i tekhnika mladezh no.10:26-27
O '57.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

BONDOR, Livia

Investigation of sedimentary geology of Hungarian glauconitic rocks.
Foldt kozl 90 no.3:292-302 Jl-S '60. (EEAI 10:2)
(Hungary--Rocks)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

KONDRAY, OTTILIA

Hungary

CA: 47:12432

with GYULA SAVAY and BERTALAN CSILLIK

Med. Univ., Szeged

"The unspecific esterase activity of sensory and vegetative ganglia."

Acta Morphol. Acad. Sci. Hung. 3, 207-15 (1953) (in German).

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

D.D.R. 4/12

5

5089. Cholinesterase activity of sensory nerve endings. B. Csilizki,
G. Sávay, I. Nagy, O. Banday and M. Poberay *Acta physiol. Acad.*

Sci. Hung., 1954, 6, 379-384 (Inst. Anst. Histol. and Embryol.,
Med. Univ., Szeged, Hungary).—A histochemical study. The
deparaffined 15 μ . sections are incubated in a buffered solution
(pH 7.4) of β -naphthyl acetate and diazo- β -naphthyl amine for
30 min. Cholinesterase is stained purple red. Eserine 10^{-4} inhibits
cholinesterase staining but not staining of other esterases. The
pad of the paw of normal rats and in those with transected nervus
ischadicus on one side were examined. The tactile corpuscles
were shown to contain cholinesterase. The esterolytic activity of
these receptors persisted up to 28 days after sciatic sectioning,
although the nerve fibres degenerated completely. It is concluded
that the skin receptors have an enzymic structure similar to that
of the motor end-plate forming synapses between "pre-synaptic
membrane" and telodendron. A. B. J. BRZNAK.

Rec

BONDUNKOV, I.I.

Prospectives in building in the Dzerzhinskii District.
Gor. Khox. Mosk. 34 no. 4:18-21 Ap '60.
(MIRA 13:8)

1. Predsedatel' Ispolkomu Dzerzhinskogo raysoveta.
(Moscow--City planning)

PHASE I BOOK EXPLOITATION

SOV/ASZ/4

Chelovek v kosmicheskikh vysotakh i kosmicheskogo polata; avtorik
prisloev ik. Mostannyoy periodicheskoy literatury (Man Under
Conditions of High-Altitude and Cosmic Flight; Collection of
Translations from Foreign Periodical Literature) Moscow, Izd-vo
Inostr. lit-ry, 1960. 462 p. No. of copies printed not given.

Translator (from German and English): I. I. Gurvich; Ed.: P. F.
Brudilov; Tech. Ed.: N. A. Ivleva.

PURPOSE: This book is intended for medical personnel working on
problems of aviation and space medicine and for engineer,
designers, scientific, and other workers in aviation and
cosmonautics.

CONTENTS: The collection consists of 26 translations of periodical
articles (20 American and 6 German) on problems of aviation and
space medicine originally published in 1956 and 1958. Individual
articles discuss problems of living conditions in cabin of flying
vehicles, physiological stresses in various conditions, decompression
and noise, toxic hazards, decompression and cosmic irradiation.
No personalities are mentioned. References accompany each article.

Man Under Conditions (Cont.)

SOV/ASZ/4

- | | |
|---|-----|
| Boudreut, S., M. F. Clarke, and others. Human Tolerance to
some of the Accelerations Anticipated in Space Flight (US
Army Forces Medical Journal, v. 9, no. pp. 1091-1105, 1958) | 219 |
| Hargan, A. "Wide Range Investigations of Acceleration in
Flight and Kinetics (J. Aviat. Med., v. 29, 12, pp. 855-871,
1958) | 238 |
| Ton Bernd, H.-J. Multidirectional D Protection in Space
Flight and During Escape; A Theoretical Approach (J. Aviat.
Med., v. 29, 5, pp. 335-342, 1958) | 263 |
| Tobias, G. A. Danger of Cosmic Rays in High Altitude Flights
(Gefahrlosigkeit durch Energiestrahlung beim Höhenflug, "Röntgen-
Strahlen und Grenzen des bemannten Fluges", 1956, pp. 37-72) | 277 |
| Schaefer, H. J. New Knowledge of the Extra-Atmospheric Radia-
tion Field (J. Aviat. Med., v. 29, 7, pp. 492-500, 1958) | 324 |
| Kamm, O. J. D., and D. O. Simons. Sensory Reactions Related
to Accelerations and Their Implications to Space Flight (paper
presented at the American Rocket Society, December, 1957) | 336 |
| Antoncic, A. R. Decompression Events in Manned Vehicles (paper
presented at the American Rocket Society, June, 1958) | 349 |
| Hard, J. E. True Nature of Boiling of Organic Liquids in Space
(J. Aviat. Med., v. 27, 5, pp. 429-439, 1956) | 417 |
| Clark, C. C. A Closed Food Cycle Atomic Conservation for
Space Flight (J. Aviat. Med., v. 29, 7, pp. 535-539, 1958) | 435 |
| Harmatz, M. R. The Possibility of Recycling Human Urine for
Utilization in a Closed Ecological System (J. Aviat. Med.,
v. 29, 7, pp. 525-525, 1958) | 445 |

AVAILABLE: Library of Congress (HC1062.08)

AC/ln/ac

BONDURYANSKIY, A.D.; CHUKINA, N.I.

Purification of yeasts in the fermentation of molasses sirup to
alcohol. Spirt.prom. 27 r. 1:45 '61. (MIRA 14:2)
(Yeast) (Fermentation)
(Alcohol)

BONDURYANSKIY - F-5

USSR/Microbiology - Microorganisms Pathogenic to Humans and
Animals.

F-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9970

Author : Bonduryanskiy, I.P.

Inst : ~~Central Institute of Epidemiology and Microbiology~~

Title : Carrying of Dysentery Bacteria.

Orig Pub : Sb. tr. Mold. n.-i. in-t epidemiol., mikrobiol. i gигиены,
1956, No 2, 33-36

Abstract : Elaborate epidemiological observations were conducted for a period of 2 years on 187 bacterial carriers, found in investigating healthy individuals who had contact with gastro-intestinal patients, as well as workers in food industries and persons newly arrived from other areas. Among them 59.8% bacterial carriers were found from contact, 35.8% from newly arrived individuals, and 3.2% from food workers. The discovered bacterial carriers were directed to a health station, where inoculability of contact

Card 1/2

USSR/Microbiology - Microorganisms Pathogenic to Humans

F-5

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206310003-6"

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9970

persons was 1.5%, newly arrived 1.2%, and food workers 0.5-0.8%. During their stay at the station the bacterial carriers were twice subjected to rectoromanoscopy, from which 19 persons were found to have pathological mucus deviations of the distal part of the colon. Of the 187 original carriers, after clinico-epidemiological clearing 154 carriers remained whose state of health was not in question either previously or at present. 103 of these at the station repeatedly did not liberate any dysentery bacteria. Investigations confirmed a temporary carrying of dysentery bacilli by healthy persons. As a rule the number of healthy carriers increases parallel to growth of disease occurrences. The author notes that the epidemiological role of healthy carriers is insignificant in spreading dysentery. After sanitation they are not dangerous to the public.

Card 2/2

BONDURTANSKIY, I.P.; STEKLOVA, Ts.M.

Elimination of cases of poliomyelitis in the district. Zdravookhranenie
2 no.1:62 Ja-F '59. (MIRA 12:?)

1. Iz Moldavskogo instituta epidemiologii, mikrobiologii i gigiyeny
(direktor - N.N. Yezhov) i Respublikanskoy MSSR (glavnnyy vrach -
A.A. Kovalev)
(POLIOMYELETIS)

BONDURYANSKIY, I.P.

Epidemiological effectiveness of immunization against whooping cough
with shortened intervals between vaccinations. Zhur. mikrobiol.
epid. i immun. 31 no. 5:13-15 My '60. (MIRA 13:10)

1. Iz Moldavskogo instituta mikrobiologii, epidemiologii i gigiyeny.
(WHOOPING COUGH)

BONDURYANSKIY, I.P.; KOTSOFANE, V.A.

Data on the reaction stimulation and epidemiological effectiveness
of whooping cough-diphtheria vaccine. Zdravookhranenie 4 no. 1:43-
45 Ja-F '61. (MIRA 14:2)

1. Iz Moldavskogo instituta epidemiologii, Mikrobiologii i gigiyeny
(direktor - N.N. Yezhov) i Respublikanskoy sanitarno-epidemiologicheskoy
stantsii (glavnnyy vrach - A.A. Kovalev).
(DIPHTHERIA) (WHOOPING COUGH)

STAROSTENKO, N.T.; SHLYAKHOV, E.N.; DROBINSKIY, I.R.; BONDURYANSKIY, I.P.;
VIZITIU, A.F.; SHROYT, I.G.; ZHITAR', V.D.; KOROVINA, T.V.;
LEBENZON, N.N.

Botkin's epidemic hepatitis in Moldavia and measures for its
control. Zdravookhranenie 5 no.3:33-38 My-Je '62. (MIRA 16:1)

1. Iz kafedry fakul'tetskoy terapii, infektsionnykh bolezney,
mikrobiologii, gospital'noy terapii Kishinevskogo meditsinskogo
instituta (rektor - dotsent N.A.Testemitsanu), Moldavskogo
instituta epidemiologii, mikrobiologii i gigiyeny (direktor -
dotsent N.N.Yezhov) i Kishinevskogo gorodskogo otdela zdravo-
okhraneniya (zav. - P.P.Kozishkurt). Nauchnyy rukovoditel'
zasluzhennyy deyatel' nauki prof. N.T.Starostenko.
(MOLDAVIA--HEPATITIS, INFECTIOUS)

SHLYAKHOV, E.N.; GEKHTMAN, M.Ya.; BONDURYANSKIY, I.P.

Further research on the epidemiology of Botkin's disease in the
Moldavian S.S.R. Trudy Kish.gos.med.inst. 11:71-86 '60.

(MIRA 16:2)

1. Otdel epidemiologii Moldavskogo instituta epidemiologii, mikro-
biologii i gigiyeny i kafedra organizatsii zdravookhraneniya
Kishinevskogo gosudarstvennogo meditsinskogo instituta.
(MOLDAVIA--HEPATITIS, INFECTIOUS)

SHLYAKHOV, E.N.; BONDURYANSKIY, I.P.; GROYSMAN, G.M.; OSTAPENKO, M.G.;
LITVIK, Ye.N.; KONDRAT'YEVA, L.I.; LEHENZON, N.P.; SHPANIR, Ye.I.

Use of gamma globulin for the prevention of infectious hepatitis
in pediatric institutions. Trudy Kish.gos.med.inst. 11:101-104
'60. (MIRA 16:2)

1. Otdel epidemiologii Moldavskogo nauchno-issledovatel'skogo
instituta epidemiologii, mikrobiologii i gigiyeny, Kishinev'skaya,
Bel'tskaya, Orgeyevskaya i Respublikanskaya sanitarnaya epidemi-
logicheskaya stantsiya.

(HEPATITIS, INFECTIOUS-PREVENTIVE INOCULATION)
(GAMMA GLOBULIN)

ACC NR: AM6026325

Monograph

UR/

Bonduryanskiy, Zeylik Pertsovich; D'yachkov, Mikhail Andretevich;
Melamed, Emmanuil YEmel'tanovich

(Declassify)

Marine reinforced concrete ships; designing the hull (Morskiye
zhalezobetonnyye suda; proyektirovaniye korpusa) Leningrad, Izd-vo
"Sudostroyeniye," 1966. 199 p. illus., biblio. 1900 copies printed.

TOPIC TAGS: ~~shipbuilding engineering~~, shipbuilding engineering, reinforced
concrete

PURPOSE AND COVERAGE: This book is intended for designers, technologists, and skilled workers in reinforced-concrete shipbuilding plants and for students of higher and technical schools. It discusses the physical and mechanical characteristics of marine reinforced concrete, the various hull designs and the types of reinforced concrete used for each, and the types of ships for which reinforced concrete can be used as the building material. There are 51 references, all Soviet.

TABLE OF CONTENTS [abridged]:

Introduction -- 5

Ch. 1. Area of application of reinforced concrete in ship building -- 6

Card 1/2

UDC: 629.12.011.25.001.12

ACC NR: AM6026325

Ch. 2. Materials used in reinforced concrete shipbuilding -- 33
Ch. 3. Reinforced concrete ship designing -- 61
Ch. 4. Structure of hull components of reinforced concrete ships -- 133
Supplements (sample problems on the computation of ship dimensions and strength) -- 185
Bibliography -- 199

SUB CODE: 13// SUBM DATE: 01Feb66/ ORIG REF: 051

Card 2 / 2

BONDUS, L.P.; STEPANOV, P.P.; ZIL'BERMAN, R.P.

Use of pneumoperitoneum in pulmonary tuberculosis at a climato-
logical sanatorium. Probl.tub. 37 no.1:115 '59. (MIRA 12:2)

1. Iz Yaltinskogo klinicheskogo sanatoriya.
(PNEUMOPERITONEUM, ARTIFICIAL) (TUBERCULOSIS)

BONDUS, T.P.

Change in the blood cholesterol level under the influence
of the sanatorium and climatic treatment. Vop. pit. 22
no.2:19-24 Mr-Ap '63. (MIRA 17:2)

1. Iz Yaltinskogo sanatoriya Ministerstva oborony SSSR.

BONDY, F.

"Struggle Against Corrosion." Discusses protection of metal surfaces and wire ropes.

SO: Mechanisace, Czechoslovakia, Vol 3, No 1,
Jan 1954, (AF-617422, 12 Apr 1954)

BONDY, F. - Mechanisace, Vol. 3, No. 2, Feb. 1954

Flight against corrosion p. 60
Organization of work with concrete while supplying concrete mixture by pumps p. 62
Mechanization of plastering p. 63
Equipment for production and conveying mortar and for plastering p. 64
Small aerial ropeways p. 65
Mobile and telescopic scaffolding p. 65
Safety nets and buildings p. 65
Excavator for small rectangular foundations p. 66

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

2422. Boddy, P., Graphic kinematics of straight plate springs
(in Hungarian), Mérés és Automat., 6, 5/6, 164-171, May/June
1958.

Author presents elementary but comprehensive derivation of
displacement characteristics of prismatic flat (plate-type) springs.
Deflection functions are derived for the spring fixed at one end
and subjected to shear, moment and thrust at the other, as
governed by different boundary conditions.

The case of plane translation by two parallel springs is treated
in detail. Springs containing a stiff central piece are shown to
entail less reduction in span during parallel translation than
prismatic (uniform) springs of the same stiffness. Cautionary note
is added on the strong influence of thickness tolerances upon re-
sulting performance.

N. A. Weil, USA

BONDY, P.

Approximate computation of heat transfer from metallic bodies, without heat sources, to the air by free convection. In german. p. 261.

ACTA TECHNICA. (Magyar Tudomanyos Akademia) Budapest, Hungary, Vol. 20, no. 3/4, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959,
Uncl.

BONDY, Pal, mernok

Instrumental control of the production in the machine industry workshops; dispatcher instruments. Meres automat 9 no.6:178-185 '61.

1. Altalanos Geptervezo Iroda,

21102,

S/194/62/000/007/047/160
D295/D308

AUTHORS: Gulyás, Ernő, Fóti, György, and Bondy, Pál

TITLE: Protective and regulating equipment for electrically controlled processes

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-2-114 sh (Hung. pat., cl 21h 13, 14-19, no. 147852, Nov. 30, 1960)

TEXT: In order to increase the reliability of control equipment situated between a pick-up and the operating device, a secondary electrical control circuit is provided in addition to the main circuit. In the case of faults of any conductor, the equipment is switched-off. In addition, internal faults of the equipment put into operation a separate internal sensing element in the circuit of which there is a relay which disconnects the feed of the grid of an electron valve. The latter disconnects the whole equipment. In the circuit of the controlled element there is a device sensitive to thermal overload of the equipment. When the permissible value of heating is exceeded the whole control equipment is disconnected. A Card 1/2

S/194/62/000/007/047/160
Protective and regulating equipment ... D295/D308

system for the temperature control of a drying-room using a mercury -contact thermometer, is given as an example. [Abstracter's note:
Complete translation.]

ASSOCIATION: Általános Géptervezõ Iroda

Card 2/2

BONDY, Pal

~~RECORDED~~ Error calculation in design; the screw spring as an example.
Gep 15 no. 4:140-145 Ap '63.

1. Altalanos Gepertevezo Iroda.

BONDY, P.

Contribution to the calculation of heat transfer between
geometrically simple bodies and gases by free convection.
Acta techn Hung 44 no.3/4:285-296 '63.

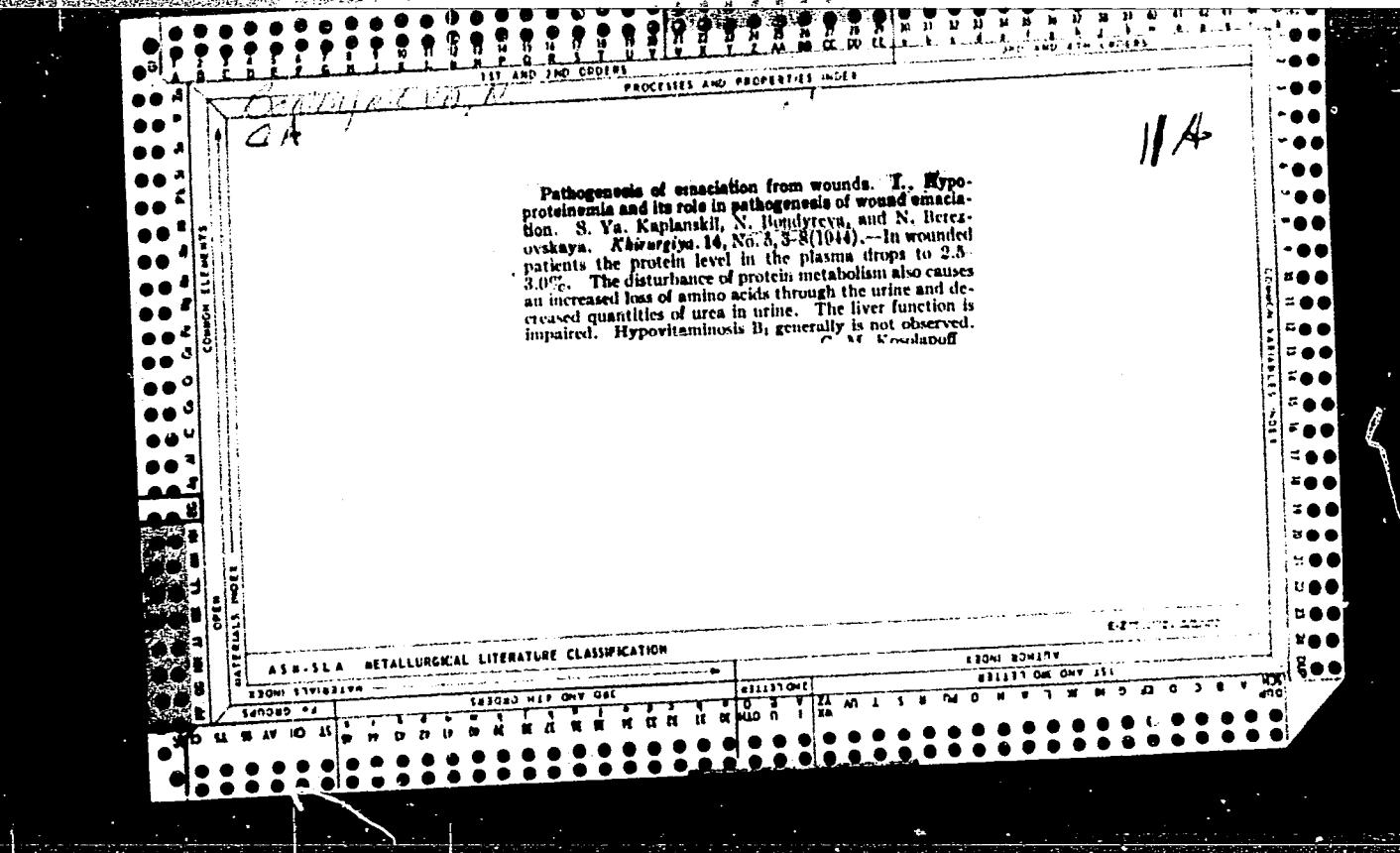
1. Allgemeines Maschinen-Projektierungsinstitut, Budapest.

BONDYREV, A., obshchestvennyy instruktor, parashutist; KILIMNIK, A.
(s.Vyazovok, Gorodishchenskogo); GLADKOV, N., zasluzhennyy master
sporta; KOVGANOV, V. (Gradno); KRYZHENKO, Vi. (pos.Tomilno,
Moskovskoy oblasti)

Facts, events, people. Kryl.rod. 14 no.1:12-13 Ja '63.
(MIRA 16:1)
(Aeronautics)

ALESHIN, M.F.; BONDYREV, V.V.; SOKOLOV, S.A.; MASLOV, I.A.

Device for automatic selection of ferrite cores. Nauch.-tekhn.
sbor. Gos. izd-va lit. v obl. atom. nauki i tekhn. no.6:122-128
'63
(MIRA 17:8)



L 39730-65 EWT(d)/EWT(m)/EWP(w)/EPF(c)/EWA(d)/EWP(v)/EPR/T/EWP(t)/EWP(k)/
EWP(h)/EWP(t)/EWP(1)/EWA(c) Pf-4/Pr-4/Ps-4 JD/HW/DJ

ACCESSION NR: AR5005856

S/0137/64/000/011/D008/D009

43

1/2

B

SOURCE: Ref. zh. Metallurgiya, Abs. 11D54

AUTHOR: Tret'yakov, A. V.; Bondugin, V. M.

TITLE: Friction losses in cold rolling mill stands

CITED SOURCE: Tr. Vses. n.-i. i proyektno-konstrukt. in-ta
metallurg. mashinostr., sb. 11, 1964, 91-98

TOPIC TAGS: rolling mill, friction loss, cold rolling, rolling
moment, friction coefficient, friction moment, specific pressure

TRANSLATION: A theoretical analysis of losses in the stands of mills
due to friction in the bearings and to rolling friction between
supporting and working rollers has been made. 4-roller and 12-roller
mills were selected for the analysis. It was established that the
nature of the change in the rolling moment and the friction
coefficient is analogous for both mills. With an increase in the
mean specific pressure, at constant absolute reduction the friction
moment in the bearings increases in direct proportion to the rolling

Card 1/2

11

L 39730-65

ACCESSION NR: AR5005856

moment, while the rolling friction moment is directly proportional to the product of rolling moment x mean specific pressure. With an increase in the absolute reduction (with mean specific pressure = constant), the rolling friction and the friction coefficient losses in the bearings increase. Relative losses due to friction increase with a decrease in thickness and with an increased yield point of the rolled strip. For a 4-roller mill, rolling friction moment = (10-110)% rolling moment, friction moment = (10-70)% rolling moment; and, for a 12-roller mill, rolling friction moment = (40-150)% rolling moment, friction moment = (15-55)% rolling moment. For practical reduction conditions, we can take rolling friction moment = (10-90)% rolling moment for a 4-roller mill, and friction moment = (40-120)% rolling moment for a 12-roller mill. N. Yudina.

SUB CODE: MM

ENCL: 00

me
Card 2/2

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

KRASKOVSKIY, Ye.Ya., kand.tekhn.nauk; TRET'YAKOV, A.V., kand.tekhn.nauk;
BONDYUGIN, V.M., inzh.

Experimental investigation of resistance to rolling. Vest.
mashinostr. 45 no.11:26-29 N '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

KRASKOVSKIY, Ye.Ya., kand.tekhn.nauk; TRET'YAKOV, A.V., kand.tekhn.nauk;
YAKOVLEV, V.F., kand.tekhn.nauk; BONDYUGIN, V.M., inzh.; ABROSIMOV,
V.I., inzh.

Studying rolling friction on roll models. Sber. st. NIITIAZHMASHa
Uralmashzavoda no.6:189-205 '65.

(MIRA 28:II)

YAKOVLEV, V.F., kand.tekhn.nauk; TRET'YAKOV, A.V., kand.tekhn.nauk;
KRASKOVSKIY, Ye.Ya., kand.tekhn.nauk; BONDYUGIN, V.M., inzh.;
ABROSIMOV, V.I., inzh.

Studying contact stresses by means of electric tensometric roll
models. Sbor. st. NIITIAZHMASHa Uraumashzavoda no.6211-227 '65.
(MIRA 18:11)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

KLECHKOV, P.A., kap.; BONDZHEV, A.I., kap.

The 1948 international rules for the prevention of collisions
at high seas. Transp delo 6 no.4:33-37 '54.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6"

TSIBROVSKIY, Ya.; BONDZYNSKI, M.

Free discharge of granular material through an aperture in the conical bottom of a vessel. Inzh.-fiz. zhur. 6 no.7:26-35 Jl '63.

(MIFI 16:9)

1. Politekhnicheskiy institut, Varshava, Pol'skaya Narodnaya Respublika.

(Granular materials) (Mechanics)

BONEA, I.

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subterranean ones by a single vertical shaft. p. 249.

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Uncl.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206310003-6

BUTUCESCU, N.; BONEA, L.; BOTNARENCO, A.; STOICESCU, Gh.; STOICESCU, Fl.

Gold and silver telluride mineralization in the Baita-Nistră
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Contributions to the knowledge of the copper mineralization at
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APPROVED FOR RELEASE: 06/09/2000

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BONECKI, Z.; URBANSKI, T.

On preparation of 2,4,6,-trinitrophenylacetic acid. Bul chim PAN 9
no.7:461-462 '61.

1. Military Technical College, Warsaw. Presented by T. Urbanski.

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On preparation of 2,4,6,-trinitrostyrene and some 2,4,6,-trinitro-
phenylethane derivatives. Bul chim PAN 9 no.7:463-466 '61.

1. Military Technical College, Warsaw. Presented by T. Urbanski.

BONEFACIC, A.

X-ray investigation of some mercuric sulfates. Croat chem acta
34 no.2:119-121 '62.

1. Institute "Ruder Boskovic" and Physical Institute, Faculty
of Science, University of Zagreb, Zagreb, Croatia, Yugoslavia.

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The crystal structure of anhydrous mercuric sulphate. Croat
chem acta 35 no.3:195-201 '63.

1. Institute "Ruder Boskovic" and Physical Institute, Faculty
of Science, University of Zagreb, Zagreb, Croatia, Yugoslavia.

ACCESSION NR: AT4016595

S/2556/63/000/034/0005/0007

AUTHOR: Fomenko, B. D.; Bonelis, I. V.

TITLE: The relationship between calcium flocculae and disturbances of the lower layers of the earth's atmosphere in 1950

SOURCE: Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. Byulleten', no. 34, 1963, 5-7

TOPIC TAGS: astronomy, sun, calcium flocculus, geomagnetic disturbance, corpuscular stream, M-disturbance, solar activity, sunspot, atmospheric pressure, superposed epoch, flocculus, solar active region

ABSTRACT: A study has been made of the relationship between solar calcium flocculae and disturbances in the earth's atmosphere for a period of solar activity when $65 < R < 125$, where R is the smoothed sunspot number. Synoptic charts for solar rotations 1291-1299, prepared at the Meudon Observatory, were used, together with atmospheric pressure data for Tbilisi, Volgograd and Arkhangel'sk. The superposed epochs method was used for determining the relationship between disturbances in the lower atmosphere and corpuscular streams associated with calcium flocculae. Forty-six flocculae observed during March-November 1950 were used. The number of flocculae crossing the central meridian with

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ACCESSION NR: AT4016595

longitude intervals ΔL_{sol} of 1^d , 2^d , 3^d , days is shown in Enclosure. In constructing statistical curves for flocculae with identical ΔL_{sol} the following values were combined: $\Delta L_{sol} = 3-4^d$, $\Delta L_{sol} = 5-6^d$, $\Delta L_{sol} = 9-10^d$... Statistical curves obtained by the superposed epochs method are shown as Figures 1, 2 and 3 in Enclosure. On these curves there is only one peak, falling at $\Delta t = 6^d$. The peak shows that for the most part the disturbance maximum in the lower atmosphere appears $\Delta t = 6^d$ after a calcium flocculus crosses the solar central meridian. Calcium flocculae determine the boundaries of active regions. Therefore, corpuscular streams emanating from active regions are responsible for the recurrent geomagnetic disturbances causing disturbances in the earth's atmosphere. "The author wishes to thank S. B. Nikolayev for assistance in collection of the meteorological data". Orig. art. has: 3 figures.

ASSOCIATION: Volgogradskiy pedinstitut, Volgogradskoye otdeleniye VAGO (Volgograd Teachers Institute, Volgograd Division VAGO)

SUBMITTED: 00

DATE ACQ: 24Feb64

ENCL: 04

SUB CODE: AS

NO REF SOV: 003

OTHER: 000

Card

2/52

OK

V

ACCESSION NR: AP3004325

S/0033/63/040/004/0700/0702

AUTHOR: Fomenko, B. D.; Bonelis, I. V.; Kubyshkin, V. V.

TITLE: The latitude and height dependence of atmospheric disturbances due to type M solar corpuscular streams

SOURCE: Astronomicheskiy zhurnal, v. 40, no. 4, 1963, 700-702

TOPIC TAGS: atmospheric disturbance, atmospheric disturbance latitude dependence, atmospheric disturbance height dependence, corpuscular stream, solar corpuscular stream, type M solar corpuscular stream, radio sounding

ABSTRACT: The latitude dependence of atmospheric disturbances has been detected from a study of data, in addition to that used previously (B. D. Fomenko, Astron. zh., v. 39, 833, 1962). It is found that the amplitude of atmospheric disturbances increases with geomagnetic latitude. Radio sounding data show that the disturbance occurs in the atmosphere. Orig. art. has: 4 figures and 1 table.

Card 1/2

ACCESSION NR: AP3004325

ASSOCIATION: Volgogradskiy pedagogicheskiy institut (Volgograd
Pedagogic Institute)

SUBMITTED: 07Feb63

DATE ACQ: 20Aug63

ENCL: 00

SUB CODE: 00

NO REF SOV: 005

OTHER: 000

Card 2/2

L 10647-66 ENT(1)/FOC/EWA(h) GW

ACC NR: AP6002690

SOURCE CODE: UR/0033/65/042/006/ 1232/1249

AUTHOR: Mustel', E. R.; Kubyshkin, V. V.; Bonelis, I. V.

ORG: ^{44,55} Astronomical Council, Academy of Sciences SSSR (Astronomicheskiy Soviet
Akademii nauk SSSR); Volgograd Teachers' Institute (Volgogradskiy pedagogicheskiy
institut)TITLE: Corpuscular streams and cosmic rays and their effect on the earth's
troposphere

SOURCE: Astronomicheskiy zhurnal, v. 42, no. 6, 1965, 1232-1249

TOPIC TAGS: ¹²¹cosmic ray, ¹²⁻⁴⁴⁵⁵meteorological phenomenon, proton stream, corpuscular
stream, tropospheric process, chromospheric flareABSTRACT: Quasi-stationary corpuscular fluxes emanating from active regions during
the period of 1951 to 1953 are analyzed. Chromospheric flares recorded at several
Arctic stations at different geomagnetic latitudes are plotted diagrammatically.
Analysis of the results indicates that the corpuscular streams produce a pressure
increase, while the subrelativistic proton streams from chromospheric flares
produce pressure decreases at the polar caps. It is noted that the amplitude
decrease of atmospheric disturbances with decreasing geomagnetic latitude can be
a source of additional atmospheric circulation. This assumption is borne out by
analysis of chromospheric flares of 1956-1960. A more detailed discussion of all

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UDC: 523.745

ACC NR: AP6002690

these problems is to be undertaken in the near future. Orig. art. has: 13 figures
and 3 tables. [JJ]

SUB CODE: 04/ SUBM DATE: 25Jun65/ ORIG REF: 015/ OTH REF: 007/ ATD PRESS:

4169

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