

SKURIDIN, Serafim Aleksandrovich [Skuridin, S.O.]; BELEVTSSEV, Ya.M.
[Bielievtssev, IA.M.], otv.red.; MEL'NIK, G.F. [Mel'nyk, H.F.],
red.isd-va; YURCHISHIN, V.G. [Iurchishin, V.H.], tekhn.red.

[Detailed stratigraphic scale of the central series in the
Sansagan' area of the Krivoy Rog Basin] Detalizatsiia straty-
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rohu. Kyiv, Vyd-vo Akad.nauk Ukr. RSR 1958. 35 p. (Akademiia
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(MIRA 13:2)
(Krivoy Rog Basin--Geology, Stratigraphic)

MEL'NIK, Yuriy Petrovich [Mel'nyk, IU.P.]; BELEVTSSEV, Ya.M. [Bielievtsev, IA.M.], otv.red.; MEL'NIK, I.F. [Mel'nyk, I.F.], red.izd-va; ROZENTSVEYG, Ye.N. [Rozentsveig, IE.N.], tekhred.

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(Saksagan' Valley--Rocks)

BELEVTSOV, Ya.N.; SKURIDIN, S.A.

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BELEVTSSEV, Ya.M. [Believtsev, IA.M.]

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(Iron ores)

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BELÉVTSEV, Yakov Nikolayevich; Prínimal uchastiye CHEREDNICHENKO, A.I.;
USENKO, I.S., doktor geol.-mineral.nauk, otv.red.; ZAVIRYUKINA,
V.N., red.izd-va; RAKHLINA, N.P., tekhn.red.

[Structural conditions in the formation of ore deposits] Struk-
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BELEVTSSEV, Ya.N. [Believtsev, IA.M.]; MEL'NIK, Yu.P.;
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Mineralogical characteristics of iron ores and migmatites in
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(Krivoy Rog Basin—Iron ores)

(Krivoy Rog Basin—Migmatites)

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(Krivoy Rog Basin--Iron ores)
(Krivoy Rog Basin--Migmatites)

BELEVTSSEV, Yakov Nikolayevich; TAKHTUYEV, Gleb Vasil'yevich; GOROSHNIKOV, Boris Ivanovich; BIRYUKOV, V.I., red.; OVCHINNIKOVA, S.V., red. izd-va; GUROVA, O.A., tekhn. red.

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SEMENENKO, N.P., akademik, otv. red.; SUBBOTIN, S.I., akademik, red.;
TKACHUK, L.G., doktor geol.-miner. nauk, zam. otv. red.;
LAZARENKO, Ye.K., red.; BELEVTSSEV, Ya.N., red.p POPOV, V.S.,
red.; SOLLOGUB, V.B., kand. geol.-miner. nauk, red.;
ZAVIRYUKHINA, V.N., red.; MEL'NIK, A.F., red.; DAKHNO, Yu.B.,
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[Materials of the Fifth Conference of the Carpatho-Balkan
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(Balkan Mountains--Geology)

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(MIRA 16:3)

(Krivoy Rog Basin--Iron ores)

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Metallogenetic features of the Ukrainian iron-ore province. Zakonom.
razm. polezn. iskop. 5:82-109 '62. (MIRA 15:12)

1. Institut geologicheskikh nauk AN Ukrainskoy SSR.
(Ukraine—Ore deposits)

BELEVTSSEV, Ya.N. [Believtsev, I.A.M.]; PRUSS, A.K. [Prus, A.K.]

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1. Institut geologicheskikh nauk AN UkrSSR.
(Dnieper Valley--Geology)

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(Russian Platform--Geology, Stratigraphic)

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 P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; POLOVKO, N.I.,
 red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M.,
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miner. nauk, zam. otv. red.; SUBBOTIN, S.I., akademik, red.;
LAZARENKO, Ye.K., red.; BELEVTSSEV, Ya.N., red.; POPOV, V.S.,
red.; SOLLOGUB, V.B., kand. geol.-miner. nauk, red.;
MEL'NIK, A.F., red.; ZAVIRYUKHINA, V.N., red.; DAKHNO, Yu.B.,
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Belevtsev, Popov):

(Carpathian Mountains--Geology)
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POVARENNYKH, A.S., doktor geol.-miner. nauk, prof., otv. red.;
AGAFONOVA, T.N., kand. geol.-miner. nauk, dots., red.;
BELEVITSEV, Ya.N., prof., red.; GAVRUSEVICH, B.A., kand.
geol.-miner. nauk, dots., red.; GLADKIY, V.N., inzh.,
red.; IVANTISHIN, M.N., doktor geol.-miner. nauk, red.;
PLATONOV, A.N., inzh., red.; KHATUNTSEVA, A.Ya., kand.
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(Mineralogy) (Geochemistry)

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AN Ukr.SSR (for Belevtsev).

(Krivoy Rog Basin--Engineering geology)

PLATONOV, A.N., inzh., otv. red.; POVARENYYKH, A.S., doktor geologo-min. nauk, prof., glav. red.; AGAFONOVA, T.N., kand. geol.-min. nauk, dots., red.; BELEVTSSEV, Ya.N., prof., red.; GAVRUSEVICH, B.A., kand. geol.-min.nauk, dots., red.; GLADKIY, B.N., inzh., red.; IVANTISHIN, M.N., doktor geol.-miner. nauk, red.; KHATUNTSEVA, A.Ya., kand. geol.-miner. nauk, red.; ZAVIRYUKHINA, V.N., red.; DAKHNO, Yu.M., tekhn. red.

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(MIRA 18:11)

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(MIRA 18:12)

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(Ukraine--Geology)

BELEVTSSEV, Ya.M. [Bielievtsev, IA.M.]; CHEREDNICHENKO, O.I. [Cherednychenko, O.I.]

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(Ore deposits)

BELEVTSZEV, Yakov Nikolayevich; BURA, Galina Georgiyevna; DUBINKINA, Raisa Pavlovna; YEPATKO, Yuriy Mikhaylovich; ISHCHENKO, Dmitriy Ivanovich; MEL'NIK, Yuriy Petrovich; STRYGIN, Aleksey Il'ich. Primalni uchastiye: KOZHARA, V.L.; KRAVCHENKO, V.M.; TAKHTUYEV, G.V.; SHCHERBAKOVA, K.F.. RODIONOV, S.P., otv.red.; ZAVIRYUKHINA, V.N., red. izd-va; YEFIMOVA, M.I., tekhn.red.

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(Krivoy Rog Basin--Iron ores)

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Lights of people's China. Nauka i zhyttia 9 no.6:53-55
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(China--Steel industry)

BELEVTSSEV, Ya.N. [Believtsev, IA.M.]

Role of metamorphism in ore formation. Geol. zhur. 19 no.4:3-15
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(Ore deposits)

(Rocks, Crystalline and metamorphic)

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(Krivoy Rog Basin--Oxidation)

BELEVITSEV, Ya.N.

Study of the Krivoy Rog geology during the 40 years of Soviet rule.
Sbor. nauch. trud. NIGRI no.2:7-23 '59. (MIRA 14:1)

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(Krivoy Rog Basin—Geology)

BELEVTSSEV, Y.A.N.

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International Geological Congress. 21st, Copenhagen, 1960.

Granite-granite (Gneissic Granites) Kiev, Izd-vo AN UkrSSR, 1960. 174 p. 1,000 copies printed. (Series: Doklady sovetskikh geologov, problema 14) Added t. p. in English.

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Editorial Board: Resp. Ed.: N.P. Sosnenko, D.S. Korzhinskiy, and G.D. Arsen'yev; Ed. of Publishing House: V.N. Zayrubkhina; Tech. Ed.: A.A. Matveychuk.

PURPOSE: This book is intended for geologists and petrographers, as well as students of geology at schools of higher education.

COVERAGE: The book contains 13 articles representing the reports given by Soviet scientists at the 21st Session of the International Geological Congress. The individual reports deal with theoretical problems of metamorphism and interaction of magmatic masses, formation of granites, magmatic replacement in subeffusive facies, formation of ecarns, and paragenetic analysis. Representatives of the following scientific institutions participated in the work: D.S. Korzhinskiy and V.A. Zhurkov, of ICGM (Institute of Geology of Mineral Deposits, Petrography, and Geochemistry AS USSR); V.V. Tikhomirov, of the Institut geologii AS USSR (Institute of Geology AS USSR); K.G. Sidorov, of Laboratoriya problem dolomita (Laboratory of Precambrian Problems); N.P. Sosnenko, N.I. Siroshkin, N.I. Polovko, Ya. B. Balatsky, and A.I. Strigin, of the Institut geologicheskikh nauk AN UkrSSR (Institute of Geological Sciences AS UkrSSR); V.S. Sobolev, of the Institut geologii poleznykh iskopayemykh AN UkrSSR (Institute of Geology of Minerals AS UkrSSR); G.M. Zarids, and N.P. Fatshevil of the Universitet (Lvov State University); G.M. Zarids, and N.P. Fatshevil of the Geologicheskii Institut AN Ukrainoy SSR (Geological Institute AS UkrSSR); G.M. Zarids, and N.P. Fatshevil of the Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (Institute of Geology and Geophysics of the Siberian Department of the AS USSR); and I.P. Trunova, of the Laboratoriya geologicheskoy Institut (Moscow Institute for Geological Exploration). English reprints accompany each article. References follow individual articles.

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BELEVTSSEV, Ya.N; KALIAYEV, G.I.; ZAGORUYKO, L.G.; SKURIDIN, S.A.; STRYGIN, A.I.;
FEDYUSHIN, S.I.; FOMENKO, V.Iu.

Krivoy Rog-Kremenchug metallogenic zone.. Geol.rud. mestorozh. no.6:
3-11 N-D '60. (MIRAL4:3)

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(Ukraine—Ore deposits)

SEMENENKO, N.P., akademik, otv. red.; TKACHUK, L.G., doktor geol.-
miner. nauk, zam. otv. red.; VYALOV, O.S., red.; PORFIR'YEV
V.B., red.; SUBBOTIN, S.I., red.; LAZARENKO, Ye.K., red.;
BELEVTSSEV, Ya.N., red.; POPOV, V.S., red.; SOLLOGUB, V.B.,
doktor geol.-miner. nauk, red.; CHEKHOVICH, N.Ya., red.;
BYCHKOVA, R.I., red.

[Materials of the Sixth Congress of the Carpatho-Balkan
Geological Association; reports of the Soviet geologists]
Materialy VI s"ezda Karpato-Balkanskoi geologicheskoi as-
sotsiatsii; doklady sovetskikh geologov. Kiev, Naukova
dumka, 1965. 461 p. (MIRA 18:10)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 6.s"yezd.
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BELEVTSOVA, O. V.

"The Forestry Conditions and Forest Cultivation on the Naryn Sands."
Cand Agr Sci, Saratov Agricultural Inst, Saratov, 1953.
(RZhBiol, No 2, Sep 54)

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Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

KUKUSHKIN, A.M.; BELEVTSOVA, V.S.

Condensation and dehydration of residue from the clarification of
neutralized sewage. Ozhis. stoch. vod. no.3:64-71 '62. (MIRA 16:5)
(Sewage sludge)

BELEVTSOV, G.A.; KRASAVTSEV, N.I.; MISNCHENKO, N.M.; SOLDATKIN, A.I.;
SHARKEVICH, L.D.; Prinimali uchastiye: PROLOV, S.Ya.;
SHESTOPALOV, I.I.; PECHNIKOVA, Z.A.; STOLBUNSKIY, L.Z.;
USOV, V.T.; GLOTOV, P.L.; VOLKOVA, A.Ya.; ALDOKHINA, V.P.;
VOLOSHIN, Yu.T.; SHUMAKOV, I.S.; ZAPOROZHETS, N.P.;
SHAPOSHNIKOV, V.P.; GONCHAROVA, M.Ya.

Investigation of blast furnace smelting using natural gas.
Stal' 22 no.6:483-486 Je '62. (MIRA 16:7)

(Blast furnaces—Equipment and supplies)

MISHCHENKO, N.M.; BELEVTSOV, G.A.; ROTMISTROVSKIY, B.M.; IVANENKO, A.Ya.;
KONVALOV, S.I.; MYTSENKO, D.I.; ANDREYEV, A.A.; GAYDUKOV, V.S.

Complex automation of blast furnace air preheaters. Stal' 23
no.6:497-499 Je '63. (MIRA 16:10)

1. Yenakiyevskiy metallurgicheskiy zavod.

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 8, p 130 (USSR) SOV/124-57-8-9675

AUTHOR: Beley, G. A.

TITLE: The Bending-torsion Vibrations of Blades (Izgibno-krutil'nyye kolebaniya lopatok)

PERIODICAL: Tr. Stud. nauch. o-va. Khar'kovsk. politekhn. in-t, 1956, Vol 1, Nr 1, pp 7-15

ABSTRACT: The author analyzes the combined natural periodic torsional and bending vibrations in the plane of least stiffness of a blade rigidly restrained along the edge. The amplitude of the deflection and the angle of rotation about the center of flexure is expressed in the form of power series. The paper submits a numerical example of the calculation of the first two parts of the blade; the frequency of the vibrations, as usual, turned out to be lower than the frequency of the pure-bending vibrations of the blade.

E. I. Grigolyuk

Card 1/1

BELEY, G.A.

Design of clamping draw-in chucks for automatic lathes. Stan.1 instr. 32
no.3:25-27 Mr '61. (MIRA 14:3)

(Chucks)

15227, S.
BRLEY, S., inzh.

Using fatty pork in the manufacture of sausages. Mias. ind. SSSR
28 no.6:18-19 '57. (MIRA 11:1)

1. Khar'kovskiy sovnarkhoz.
(Sausages)

BELEY, S.

Efforts for greater profit in the sausage industry. Mias.
ind. SSSR 31 no.4:39-43 '60. (MIRA 14:7)

1. Kar'kovskiy sovnarkhoz.
(Sausages)
(Meat industry)

EXCERPTA MEDICA Sec 16 Vol 7/12 Cancer Dec 59

***5201. Ovarian granulosa cell tumours (Russian text) BELEZKAYA L. M.**
Med. Inst., Moscow *Vopr. Onkol.* 1959, 5/9 (305-309)

During the period 1946-1957, of a total of 770 ovarian tumours, 10 granulosa cell tumours (1.3%) were seen. Acyclic bleeding in the climacteric period or during the menopause was the main symptom. The tumour was bilateral in 1 case. Extirpation of uterus and adnexa was performed in 5 cases; removal of the affected ovary and its tube in 1; removal of both adnexa in 3; in 1 case only exploratory laparotomy could be carried out. One woman died 8 days after the operation, and another after 8 months. The remaining 8 women are well, 2 having survived for 3 yr., 1 for 4 yr., 1 for 9 yr., and 1 for 10 yr. Taking into consideration the benign character of most granulosa cell tumours the author regards as the treatment of choice the removal of the tumour only, leaving the uterus, tubes and contralateral ovary intact.

BELEZNAY, Ferenc; HARGITTAY, Csaba

Resultats of the thermonuclear research. I. (To be contd).
Fiz szemle 11 no.6:182-187 Je '61.

BELEZNAY, Ferenc; HARGITTAI, Csaba

Results of thermonuclear research.II. (To be contd.) Fiz szemle
11 no.7:217-223 J1 '61.

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B122/B227

AUTHORS: Beleznay, Ferenc; Hargittay, Gyula
TITLE: Results of thermonuclear research. III
PERIODICAL: Fizikai Szemle, no. 8, 1961, 251-256

TEXT: In this part of the paper, the authors describe methods of measuring the excitation temperature of plasma and various possibilities of heating the plasma to the desired temperature in power reactors. Saha deduced a relation of the thermodynamical equilibrium of the plasma; Fowler further investigated this state of equilibrium by methods of quantum statistics. Conclusion: In rather a long time, a state of equilibrium develops in the plasma to which a definite temperature and degree of ionization may be assigned. Thirring, Teller, Simonyi, and Schmidt demonstrated that at a temperature of 10^6 K the plasma is not black radiating; therefore, pyrometric measurement is excluded. The electron temperature is determined from the continuous spectrum of recombination radiation. Measurement of the excitation temperature: (a) Spectroscopic methods: From publications [Abstracter's note: References will be listed only at the end of the paper] a formula is

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Results of thermonuclear research. III

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presented by which the excitation temperature can be determined from a measurement of the relative intensity of radiation occurring in the case of transition of ions (following approximately Maxwellian distribution) from the m-th and n-th levels to a common r-th level. Another spectroscopic method is that based on the Doppler broadening, which is expedient in the case where thermodynamical equilibrium has developed between the ions building up the bulk of the plasma and the ions of impurity elements. (b) Acoustical method: The temperature is calculated from the known formula expressing the relation between the velocity of sound propagation in gases, their temperature and molecular weight. For this purpose, a sound wave of known frequency is generated in the plasma in the direction of the magnetic field, and its wavelength is determined. Another acoustical method is that by measuring the velocity of the shock wave. Methods of heating the plasma: Joule or ohmic heating - Ohm's law holds for the relation electric current-field strength when the directions of the electric and of the confining magnetic fields coincide. According to Carvath's calculations, energy is imparted to ions through electron-ion collision. Berger, Bernstein, Frieman, and Kulsrud found that in hydrogen plasma a temperature of 10^6 °K could be attained in the optimum case. Above a certain current strength (the


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so-called Kruskal limit), "kink" instabilities will occur. Magnetic pump: Here, the electric field is induced by variation of the magnetic field normal to the former. According to the relations of characteristic times, there are three variants of this method: (a) Collisional heating. Like in ohmic heating, the rate of heating drops with increasing temperature. (b) Acoustic heating. By this method, in principle, arbitrary temperatures can be reached. (c) Transit-time heating (not treated in detail in this paper). (d) Ion-cyclotron resonance heating. Here, the frequency of the heating field is identical with or very close to the cyclotron frequency of ions moving spirally under the influence of variation of the axial magnetic field. A space charge develops, the field of which tends to reduce the heating effect. To eliminate this, Stix suggests to arrange, in two adjacent zones, fields with a phase lag of 180° to each other. Conclusion: Experience will show which of the magnetic pumping methods will prove most expedient. There are 2 figures.



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26.22/2

AUTHORS: Beleznay, Ferenc; Hargittai, Csaba

TITLE: Results of thermonuclear research IV.

PERIODICAL: Fizikai Szemle, no. 9, 1961, 281 - 285

TEXT: Shock waves: The first chapter concludes a series of articles on the methods of plasma heating. As against the methods previously dealt with, the application of shock waves can make use not only of electromagnetic but also of chemical or nuclear energy. The propagation of shock waves is usually described in the literature on plasma physics with the aid of the universal laws of conservation. The authors write down the basic equations expressing relations between the density, pressure, and velocity of flow of the plasma, the strength of its magnetic field, and the compressibility factor κ from an article of Professor János Szabó to be published in the Magyar Fizikai Folyóirat. Therefrom, they draw the thermodynamical conclusion that the shock wave must be a compression wave (Zemplén's theorem). With a proper choice of the density ratio ρ_+/ρ_- near

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the value of $K+1/K-1$, the temperature jump can be made, in principle, arbitrarily high. Final conclusion: The heating effect of shock waves is evidently the consequence of the considerable increase of entropy during the passage through the wave front when the energy of the well-ordered motion of the plasma turns into the energy of the not-ordered motion of its particles. For details of the mechanism of this transformation, the authors refer to Refs. 16, 17 (see below). They describe shock-wave experiments according to H. Jordan's "Shock Wave Experiments". The arrangement of the double chamber of the gas-dynamical tests was:

Capacitor - electrodes - first chamber - diaphragm - second chamber
($H_2 + 2O_2$) (low-pressure gas)

The oxyhydrogen gas mixture was detonated by the discharge of the capacitor across the electrodes. Disrupting the diaphragm, the explosion penetrated into the second (expansion) chamber from which a temperature jump of up to $20,000^\circ K$ resulted. Magnetodynamical shock-wave experiments: Arrangement of the double-T tube:

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Capacitor	Tube I	electrode	coils producing an axial	Tube II	Capacitor
I	electrode	magnetic field	electrode	II	

The magnetic field, normal to the tubes, accelerates the plasma particles toward the center of the tubes. By quick discharges across the electrodes, great current shocks, and with a magnetic field of 100 kG (kilogauss) temperatures of $10^5 - 10^6$ °K were produced. Annular shock tube (MAST), Patrick's experiment (Ref. 19 see below). Data on 28 experimental reactors in operation, among them the Alpha toroidal pinch at Leningrad, the Moscow toroidal and linear pinch and the OGRA magnetic mirror in the Soviet Union, are listed in a Table. Data for a reactor are calculated as follows:

tube diameter about 40 cm, 40 kG, 10^{15} ion/cm³ plasma density, 10^{-1} sec collecting time, 10^8 °K ion temperature. Soviet nuclear fusion experiments started in 1950 under the leadership of Nobel Prize winner Tamm. In 1952, Soviet physicist Artkhimovich made pinch-discharge investigations; in 1955, Kurchatov delivered a lecture at Harwell on Soviet thermonuclear research. Professor János Szabó, Department of Theoretical

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Physics, Eötvös Loránd University, is thanked for advice and editing of this paper. There are 5 figures, 1 table, and 26 references: 9 Soviet-bloc and 17 non-Soviet-bloc. The 3 most important references to English-language publications read as follows: (16) J. H. Adlam, J. E. Allen: Phil. Mag. 3. 448 (1957). (17) Fishman, Kantrowitz, Petschek: Rev. Mod. Phys. 32. 959 (1960). (19) Landshoff: Magnetohydrodynamics. Standfort. Univ. Press (1957). ✓

ASSOCIATION: Eötvös Loránd Tudományegyetem (Eötvös Loránd University of Sciences)

Card 4/4

MACSKASY, Hugo, tudományos munkatárs; BELEZSNAY, Geza, tudományos munkatárs

Plastic materials in architecture. Elet tud 14 no.44:1388-1390
25 0 '59.

1. Szervesvegyipari és Muanyagipari Kutató Intézet.

BELEZNAY, Geza

Industrial application of plastic materials in the Council for Mutual
Economic Assistance countries. Technika 6 no.5:3 My '62.

BELEZNITSKIY, A.V.

А. В. Березникий защитил 10/XI 1961 г. в Совете Киевского медицинского института имени А. А. Богомольца диссертацию на тему «Лечение больных туберкулезом легких искусственным пневмотораксом в сочетании с антибактериальными препаратами».

Эффективность лечения искусственным пневмотораксом в сочетании с антибактериальными препаратами зависит от клинической формы и протяженности туберкулезного процесса в легких, давности заболевания и возможности коллапса, а также от длительности применения антибактериальной терапии; срочным показанием к применению искусственного пневмоторакса в сочетании с антибактериальной терапией служит легочное кровотечение из свежей каверны.

Candidate of Medical Sciences

Dissertations approved by the Higher Attestation Commission in
January and February of 1961. Terap. arkh. no.6:117-121 '61

...; ROZINA, V. K. and ALEKSEYEV, A. G.; CHERNOMORDIK, R. M.;
"A Study of the Initial Manifestations of Coronary Insufficiency on the Basis of
Polyclinical records".

Voyenno Meditsinskiy Zhurnal, No. 4, 1962

PHASE I BOOK EXPLOITATION

362

Turkmen S.S.R. Statisticheskoye upravleniye

Narodnoye khozyaystvo Turkmenskoy SSR; statisticheskiy sbornik
(National Economy of the Turkmen S.S.R.; Statistical Tables)
Ashkhabad, Gosstatizdat, 1957. 171 p. 5,000 copies printed.

Resp. Ed.: Charyyev, A.; Tech. Ed.: Strel'tsov, E. M.

PURPOSE: This book contains a series of statistical tables, and it is intended to provide statistical data on the growth of the national economy of the Turkmen S.S.R.

COVERAGE: The tables which are included in this book give basic indexes on the development of the national economy of the Turkmen S.S.R. for various years during the period between 1913 and 1956, using 1913, 1928 and 1940 as a basis of comparison.

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National Economy (cont.)

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Some of the data are tabulated by oblast. Data for 1956 are not yet complete. A few indexes indicate industrial targets for 1960 as directed by the 20th Congress of the CPSU. Data on some branches of the national economy are not included because the Statistical Department of the Turkmen S.S.R. intends to issue separate reports with more detailed information on these branches of the national economy. The following personalities took part in the preparation of various sections of this book, agriculture: Lyko, B.A. (deceased), Ivantsov, V.I., Grigor'yeva, S.I., and Bel'fer, A.Ye.; industry, transport and communications: Yezhova, M.Ye., Kuznetsov, N.D., and Man'shina, K.V.; capital construction: Donskova, N.I.; employment: Timofeyev, B.G., Pankilov, V.V.; commodity trade: Mel'kumova, A.I., Alferova, A.V.; culture, population, and public health: Roslyakov, A.A., Allanzarov, P., Gasanova, Kh.A.; editor of this volume: Charyyev, A.; General Editor: Safarnamedov, A.

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S/262/62/000/002/006/017
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AUTHOR: Bel'ferman, M. U.

TITLE: On residual stresses in aluminum pistons

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42, Silovyye ustanovki, no. 2, 1962, 51, abstract 42.2.273. "Traktory i sel'khoz mashiny", no. 7, 1911, 5-8

TEXT: The residual stresses in the trial АЛ10В (AL10V) alloy pistons of the СМД-7 (SMD-7) engine were investigated. In order to decrease the concentration of the residual and working stresses in the joints between the piston-pin boss and the head, thin ribs, (5-6 mm) should be avoided. In cast pistons it is recommended to remove the thin ribs, and to ensure the strength of the piston boss by increasing the thickness of its walls to not less than 25 mm (with a pin's hole diameter of 40-50 mm).

[Abstracter's note: Complete translation.]

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