"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, Elizbar Onisipovich, kandidat tekhnicheskikh nauk; ASSONOV, V.A., redaktor; KITAYSKIY, Ye.V., redaktor; PROZOROVSKAYA, V.L. tekhnicheskiy redaktor.

[Analysis of boring and blasting operations in the sinking of vertical mine shafts] Analiz buro-vzryvnykh rabot pri prokhodke vertikal'nykh stvolov shakht. Moskva, Ugletekhizdat, 1955. 258 p. (Shaft sinking)

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GRAFOV, L.Ye., red.; GUBERMAN, I.D., red.; ZADEMIDKO, A.N., red.; ZASYAD'KO, A.F., red.; KRASNIKOVSKIY, G.V., red.; KUZ'MICH, A.S., red.; LALAYNTS, A.M., red.; MEL'NIKOV, L.G., red.; MINDELI, E.O., kand. tekhn.nauk; ONIKA, D.G., doktor tekhn.nauk, red.; PANOV, A.D., red.; POCHENKOV, K.I., red.; TERPIGOREV, A.M., akademik, red.; USKOV, A.A., red.; KHARCHENKO, A.K., red.; SHCHEDRIN, M.A., red.; BOYKO, A.A., red.; MELAMED, Z.M., kand.tekhn.red.; PERVUKHIN, A.G., red.; BARABANOV, F.A., red.; SOSNOV, G.A., red.; TSYPKIN, V.S., red.; ALADOVA, Ye.I., tekhn.red.

[Restoration of the coal industry in the Donets Basin] Vosstanovlenie ugol'noi promyshlennosti Donetskogo basseina. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po ugol'noi promyshl. Ugletekhizdat. Vol.1. 1957. 371 p. Vol.2. 1957. 782 p. (MIRA 11:4)
(Donets Basin--Coal mines and mining)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., kand. tekhn. nauk; FEYGIN, L.M., inzh.

Flameless blasting in coal mines abroad. Bezop. truda v prom. 1 no.12:27-30 D '57. (MIRA 12:3)
(Coal mines and mining) (Blasting)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., kand. tekhn. nauk.

Improve boring and blasting operations in mine building. Shakht. stroi. no.3:4-7 '58. (MIRA 11:3)

(Boring) (Blasting)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., kand.tekhn.nauk; ODNOPOZOV, Z.A., inzh.; CHEKAREV, V.A., kand.tekhn.nauk

"Mechanization of mining operations in mine building"
Book review by E.O.Mindeli, Z.A.Odnopozov, V.A.Chekarev.
Shakht.stroi. no.10:32-3 of cover O '59. (MIRA 13:2)
(Mining machinery) (Mining engineering)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., kand.tekhn.nauk

Calculating the specific charge of explosives. Shakht.stroi. no.11:16-17 N '59. (MIRA 13:3)

1. Institut gornogo dela AN SSSR.
(Mining engineering) (Explosives)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., kand.tekhn.nauk; KUSOV, N.F., kand.tekhn.nauk

Effect of basic factors on the rate of boring. Ugol' 34 no.7: 33-36 Jl '59. (MIRA 12:10)
(Boring)

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PHASE I BOOK EXPLOITATION

Mindeli, Elizbar Onisimovych

Burovzryvnyye raboty pri provedenii gornykh vyrabotok (Blasting Operations in Mining) Moscow, Gosgortekhizdat, 1960. 454 p. Errata slip inserted. 6,000 copies printed.

Resp. Ed.: V. A. Assonov; Ed. of Publishing House: L. N. Zvorykina; Tech. Ed.: O. G. Bekker.

PURPOSE: This book is intended for technical personnel at coal-mining and ore-mining enterprises and at planning, design, and research institutes. It may also be used by instructors and students at mining schools of higher education.

COVERAGE: The author discusses problems connected with drilling and blasting, presents modern views on the theory of rock blasting, and outlines general principles drawn from pertinent scientific research and modern practice. Characteristics of modern industrial methods of drilling and blasting are cited and ways to

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further improve them are discussed. Results of theoretical and experimental research in this field are also given. The author thanks Academician L. D. Shevyakov, Corresponding Members of the Academy of Sciences N. V. Mel'nikov and M. I. Agoshkov, Professors V. G. Mikhaylov and V. K. Buchnev, and Doctors of Technical Sciences K. V. Ruppeneyt and M. M. Protod'yakonov for their help in preparing the manuscript, and Ye. V. Aleksandrov, G. A. Ganzen, G. S. Goncharenko, N. F. Kusov, Z. A. Odnopozov, N. G. Petrov, I. Ya. Petrovskiy, B. D. [and I. S.] Rossi, A. M. Fedorov, and L. M. Feygin for their help in the experimental work. There are 183 references: 145 Soviet, 21 English, 13 German, and 4 French.

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MINDELI, E.O., kand.tekhn.nauk; KUSOV, N.F., kand.tekhn.nauk; ODNOPOZOV, Z.A., gornyy inzhener; RABICHEV, A.R., gornyy inzhener; MAMONOV, V.V., gornyy inzhener; GROZIN, V.M., gornyy inzhener; OSNOVSKIY, P.V., gornyy inzhener; VORONIN, V.S., inzhener-shakhtostroitel'; MUKHIN, L.V., gornyy inzhener

Discussion on N.V. Stadnichenko, V.T. Nazarov's article "Advantageous diameter size for boreholes." Ugol' 35 no. 4:31-35 Ap '60. (MIRA 14:4)

1. Kombinat Rostovugol' (for Rabichev, Mamonov & Grozin). 2. Rostovskiy sovnarkhoz (for Osnovskiy & Voronin).
(Blasting) (Boring) (Stadnichenko, N.V.) (Nazarov, V.T.)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., kand.tekhn.nauk; ADAMIDZE, D.I., inzh.

High pressure compressed air coal breaking. Vzryv. delo no.45: 148-155 '60. (MIRA 14:1)
(Moscow Basin—Coal mines and mining)
(Pneumatic machinery)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

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SHIROKOV, Anatoliy Pavlovich; SUMIN, Ivan Petrovich; KUZ'MIN, Gennadiy Petrovich; MINDELI, E.O., doktor tekhn. nauk, retsenzent; DZHIMSHELEYSHVILI, Sh.P., otv. red.; SMIRENSKIY, M.M., red.izd-va; LOMILINA, L.N., tekhn.red.

[Manless extraction of coal in Kuznetsk Basin mines] Primenenie bezliudnoi vyemki uglia na shakhtakh Kuzbassa. Moskva, Gosgortekhizdat, 1963. 174 p. (MIRA 17:1)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., doktor tekhn. nauk; PETROV, N.G., kand. tekhn. nauk

New electric detonators of short-delay action for the mining industry. Gor. zhur. no.11:39-41 N '64. (MIRA 18:2)

1. Institut gornogo dela im. A.A. Skochinskogo.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, E.O., doktor tekhn. nauk; ALEKSANDROV, V.Ye., inzh.; SEVRIKOV, V.V., inzh.

Efficiency of a wedge cut in development faces of coal mines. Vzryv. delo no.55/12:254-266 '64. (MIRA 17:10)

1. Institut gornogo dela im. A.A. Skochinskogo (for Mindeli).
2. Proizvodstvenno-eksperimental'noye upravleniye Donetskogo soveta narodnogo khozyaystva (for Aleksandrov, Sevrikov).

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MINDELI, E.O., doktor tekhn. nauk; PETROV, N.G., kand. tekhn. nauk; OSTROVIDOV, S.V., inzh.; POLYAKOVA, Z.V., red.

[Computation and selection of basic parameters for short-delay blasting; methodological instructions] Raschet i vybor osnovnykh parametrov korotkozamedlennogo vzryvaniia; metodicheskie ukazaniia. Moskva, In-t gornogo dela, 1964. 19 p. (MIRA 18:9)

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MINDELI, E.O., doktor tekhn. nauk

Some problems of boring and blasting occurring during mining operations in zones of rock outburst. Shakht. stroi. 9 no.8: 15-19 Ag '65. (MIRA 18:8)

1. Institut gornogo dela im. A.A.Skochinskogo.

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MINDELI, E.O., prof., doktor tekhn. nauk; ODNOPOZOV, Z.A., gornyy inzh.

Prospects for the use of means of flameless blasting for breaking down rock in coal mines. Ugol' 40 no.12:28-31 D '65.
(MIRA 18:12)

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MINDELI, G. V.: Master Tech Sci (diss) -- "Systems of neutral and compensation capacitance current in mine cables". Moscow, 1958. 21 pp (Main Admin of Sci Res and Design Organizations of the Gosplan USSR, All-Union Sci Res Coal Inst VUGI), 150 copies (KL, No 6, 1959, 134)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

SHISHKIN, Nikolay Fedorovich, kand.tekhn.nauk; MINDELI, Givi Valerianovich, kand.tekhn.nauk; KORABLEV, A.A., red.; ABRAMISHVILI, T.A., red. izd-va; MEGRELADZE, A.G., tekhn.red.

[Safety measures for electricity in mines and premises subject to explosion hazards] Elektrobezopasnost' v shakhtakh i vzryvo-opasnykh pomeshcheniiakh. Tbilisi, Gos.izd-vo uchebno-pedagog. lit-ry "Sodna," 1960. 494 p. (MIRA 14:3)
(Electricity in mining) (Industrial safety)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, G.V., kand.tekhn.nauk (Moskva)

How the capacitance of low-voltage networks influences safety.
Elektrichestvo no.2:82-84 F '60. (MIRA 13:5)
(Electric networks)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

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MINDELI, G.V. [Mindely, G.V.]

Measuring the capacitance of cable networks under operating voltage conditions. Izm.tekh. no.4:40-42 Ap '60. (MIRA 13:8)

(Electric capacitance--Measurement)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

SHISHKIN, N.F., kand.tekhn.nauk; MINDELI, G.V., kand.tekhn.nauk

Quickly responding protection system against leakage currents and compensation of capacitative currents in low-voltage networks. Ugol' Ukr. 4 no.10:35-39 O '60. (MIRA 13:10)

1. Institut gornogo dela AN SSSR.
(Electricity in mining)
(Coal mines and mining--Safety measures)

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SHISHKIN, N.F., doktor tekhn.nauk (Moskva); MINDELI, G.V., kand.tekhn. nauk (Moskva)

Problems concerning protective grounding in low-voltage networks. Elektrichestvo no.11:78-82 N '62. (MIRA 15:11)
(Electric networks--Safety measures) (Electric currents--Grounding)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

SHISHKIN, N.F., doktor tekhn. nauk (Moskva); MINDELI, G.V., kand. tekhn. nauk (Moskva)

Effect of inductance relative to earth on safety in electrical networks. Elektrichestvo no.12:42-45 D '63. (MIRA 17:1)

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MINDELI, G.V., kand.tekhn.nauk

Electric safety [illegible] networks with neutral grounding through inductive resistance under conditions of overcompensation. Mekh. i avtom. v gor. prom. no.3:340-355 '63. (MIRA 16:10)

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MINDELI, G.V., candidat in stiinte tehnice; SUMA, S., ing.

Problems of using protection devices in the electric network of mines having the neutral earthed through an inductance. Rev min 16 no.2:61-66 F '65.

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KASHAKASHVILI, N.V.; SHARADZENIDZE, S.A.; MALYSHEV, S.I.; CHKHEIDZE, Z.A. GIBRADZE, Sh.S.; KHOSHTARIYA, Sh.F.; RUKHADZE, D.A.; SHARASHIDZE, S. Sh. Prinimali uchastiya: SHENGELAYA, V.; OKROMCHEDLISHVILI, Sh.; POPIASHVILI, Sh.; LOLUA, K.; MINDELI, M.; TSKHELISHVILI, D.; GORDEZIANI, N.; ODIKADZE, Ch.; TATARADZE, Z.; KHUTSISHVILI, A.

Production and use of highly basic, open-hearth furnace sinters from Dashkesan iron ore. Trudy GPI [Gruz.] no.4:25-32 '62 (MIRA 17:8)

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KHVICHIYA, A.T.; MAZHISHVILI, S.M.; MINDELI, M.Sh.

Investigating the phase constitution of sinters from Dashkesan magnetites. Trudy GPI [Gruz.] no.4:8-10 '62 (MIRA 17:8)

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KASHAKASHVILI, N.V.; GLADKOSKOK, P.P.; KHOSHTARIYA, Sh.F.; MINDELI, M.Sh.
Prinimali uchastiye: PARASTASHVILI, V.V.; KOBERIDZE, V.G.;
CHKHEIDZE, Z.A.; RUKHADZE, E.A.; KENKEBASHVILI, O.A.; SHARASHIDZE,
S. Sh.; GOGISHVILI, A.G.; MELKADZE, N.V.; DZAMASHVILI, A.V.;
GORDEZIANI, N.N.; ABRAMISHVILI, R.N.

Performance of Transcaucasia Metallurgical Plant blast furnaces operating on natural gas. Trudy GPI [Gruz.] no.4:11-23 '62 (MIRA 17:8)

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SHARADZENIDZE, S.A.; KASHAKASHVILI, N.V.; GLADKOSKOK, P.P.; MINDELI, M.Sh.; PARASTASHVILI, V.V.; RUKHADZE, D.A.; KHOSHTARIYA, Sh.F.; SHARASHIDZE, S.Sh.

Operation of blast furnaces with injection of natural gas. Metallurg 7 no.9:3-7 S '62. (MIRA 15:9)

1. Rustavskiy metallurgicheskiy zavod i Gruzinskiy politekhnicheskiy institut.

(Blast furnaces) (Gas, Natural)

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E202/E192

AUTHORS: Balavadze, B.K., Gabuniya, V.P., Shengelaya, G.Sh., Abashidze, V.G., Kartvelishvili, K.M., and Mindeli, P.Sh.

TITLE: Studies of gravitational field of the Bol'shoy Kavkaz

PERIODICAL: Referativnyy zhurnal, Geofizika, no.8, 1962, 20, abstract 8 A 134. (Geofizikis institutis shromebi. Sakartvelos SSR Metsniyerebata Akademia, Tr. In-ta geofiz. AN GruzSSR, v.19, 1960, 199-216).

TEXT: Results of the studies of the Kavkazkaya gravimetricheskaya ekspeditsiya (Caucasian Gravimetric Expedition) of the Institut geofiziki AN Gruz.SSR (Institute of Geophysics of the AS Gruz. SSR) carried out between 1955 and 1958, in the region of the Bol'shoy Kavkaz, are described. The measurements were carried out on Norgard gravimeters. Two simultaneous observations were taken which secured good control. Prior to the field work, the apparatus was studied and particularly careful determination of temperature coefficients, calibration in field conditions and determination of the stability of the rate of division, was made.

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The survey was based on 41 supporting points which are linked through the initial Tbilisi point with the Potsdam grid. The results of survey (1902 points) were completed by 57 pendulum points and 1393 points collected by industrial organisations. Method of survey in difficult and inaccessible mountainous regions is described. The errors in the determination of the anomalies are described. It is shown that in order to increase the accuracy of the gravity force reduction in mountainous regions, it is of greater importance to determine more accurately the density than the elevation of the point. The $\Delta_2 g$ (Buge) anomalies are strongly deformed by the effect of the topography and hence for all the 3400 points the effect of the topography was taken into consideration within a radius of 200 km. Brunce and Zhongolovich (Żongolowicz) corrections were incorporated in the observations. A brief description of the gravitational field of Caucasus in the "free air" (Faya) reduction $\Delta_1 g$, and local topographic $\Delta_2 g$ (Buge) reduction is given. Simultaneously with the survey, studies of rock densities were carried out which showed that the belt of density changes decreases with the increasing age of the rocks, and

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Studies of gravitational field ... S/169/62/000/008/015/090
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the average density values tend asymptotically to a limit.

[Abstractor's note: Complete translation.]

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MINDELI, P.Sh.

Bottom relief of the Black Sea and its relation to gravity anomalies. Trudy Inst. geofiz.AN Gruz.SSR 22:175-177 '64. (MIRA 18:12)

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ACC NR: AT6010299 SOURCE CODE: UR/3195/65/000/006/0066/0076

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B+1

AUTHOR: Balavadze, B. K.; Mindeli, P. Sh.

ORG: none

TITLE: Structure of the earth's crust in the Black Sea basin according to geophysical data

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Seysmicheskiye issledovaniya, no. 6, 1965, 66-76

TOPIC TAGS: structural geology, earth crust, ~~crustal structure~~, seismology, deep seismic sounding, oceanic crustal structure, ~~gravity anomaly~~, Mohorovicic discontinuity

ABSTRACT: The structure of the earth's crust in the Black Sea and the Sea of Azov basins is analyzed on the basis of: a) quantitative interpretation of the regional gravity field (Bouguer reduction) and magnetic anomalies; b) records of the Caucasian and Crimean seismic stations on the propagation of the first arrivals of L_g and R_g short-period surface waves traversing the basin; and c) records of first arrivals of P and S waves from near earthquakes during the period 1955—1960. In addition, those deep seismic-sounding data which are available for the northern half of the sea as well as geological

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evidence and density data for the adjacent areas to the north and south are utilized. The Black Sea Basin gravity anomaly is positive; over the deep-water portion it is a latitudinally-elongated, large regional maximum, which rather regularly decreases toward the coast; in the littoral zone it becomes negative, with larger negative values in the Caucasus. Mountainous Crimea and the northern part of the coastline are exceptions, showing high positive values which decrease toward the north. Records of elastic waves generated by earthquakes recorded at the Tbilisi, Sochi, Simferopol', and Yalta Stations were utilized to determine, from the S—P travel-time curves, the structure of the earth's crust at eight points around the Black Sea and one point in the sea. The crustal thickness under the continent varied from 43 to 49 km, with the sedimentary, granitic, and basaltic layers amounting to 8, 18, and 23 km, respectively. Under the sea southwest of Sevastopol the crustal thickness reached 33 km. The granitic layer in the Black Sea Basin, determined from L_g and R_g short-period wave records, has been found to thin out toward the central part of the sea and is either absent in the deep-sea portion (h > 200 km) or is too thin to be detected by this method. The depth of the Mohorovicic discontinuity in this region varies from 22 to 25 km in the central part of the sea and from 35 to 43 km in the coastal areas. The presence of a thick layer of sediments in the crust under the basin

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ACC NR: AT6010299

appears to support the thesis that its structure is continental, but the lack of a granitic layer suggests that it is of the oceanic type. The authors think that the structure is intermediate, and characteristic of inland and marginal seas. Orig. art. has: 3 figures. [ER]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 025/ OTH REF: 004

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ACCESSION NR: AP5026877 CZ/0023/65/009/001/0075/0080

b
B

AUTHOR: Balavadze, B. K.; Kindeli, P. Sh.

TITLE: Structure of the Earth's crust in the Black Sea basin, from geophysical evidence

SOURCE: Studia geophysica et geodaetica, v. 9, no. 1, 1965, 75-80

TOPIC TAGS: tectonics, geomorphology, seismology, earthquake

Abstract [English article, authors' Russian summary]: The structure of the Earth's crust of the Black Sea and the mainland surrounding it is investigated, on the basis of a quantitative interpretation of the gravity anomalies in the Bourguer reduction. Use is made of deep seismic soundings, geological data, and of the data obtained from analyses of the earthquakes in this region as recorded by the seismic stations in the Caucasus and the Krimea. It is inferred from the investigation that the structure of the Earth's crust under the Black Sea is of the intermediate type. Orig. art. has 1 figure and 3 graphs.

ASSOCIATION: Geophysical Institute, Acad. Sci. Georgian SSR, Tbilisi

SUBMITTED: 19Oct63 ENCL: 00 SUB CODE: ES

NO REF SOV: 017 OTHER: 004 JPRS

Card 1/1 vmb

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDELI, P.Sh.; NEPROCHNOV, Yu.P.; PATARAYA, Ye.I.

Determining an area void of granite layers in the Black sea trough on the basis of the data of deep seismic sounding and seismological data. Izv. AN SSSR. Ser. geol. 30 no.2:7-15 F '65. (MIRA 18:4)

1. Institut okeanologii AN SSSR, Moskva, i Institut geofiziki AN GruzSSR, Tbilisi.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MANAGADZE, G.D.; MINDELI, P.Sh.

Interpretation of a gravity anomaly above a fault in a horizontal layer. Soob. AN GruzSSR 37 no.2:301-304 F '65. (MIRA 18:3)

1. Institut geofiziki AN GruzSSR, Tbilisi. Submitted May 12, 1964.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

ACC NR: AT6034361 SOURCE CODE: UR/0000/66/000/000/0017/0021

AUTHOR: Balavadze, B. K.; Mindeli, P. Sh.

ORG: none

TITLE: Main results of geophysical investigations of the structure of the Earth's crust in the Black Sea basin

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Stroyeniye Chernomorskoy vpadiny (Structure of the Black Sea depression); sbornik statey. Moscow, Izd-vo Nauka, 1966, 17-21

TOPIC TAGS: earth crust, ~~[illegible], gravity measurement~~, Mohorovicic discontinuity, gravimetric survey / Black Sea, Sea of Azov

ABSTRACT: A short summary is presented of the main results of gravimetric investigations of the Earth's crust under the Black Sea and the Sea of Azov as well as adjacent areas along ten profiles. It was determined that the results of a quantitative interpretation of Bouguer gravity anomalies are in agreement with the results of deep seismic sounding which indicate that the thickness of the sedimentary cover increases from 5—8 km in the coastal regions to 13—15 km toward the deep part of the Black Sea basin. The 10—11-km thick

Card 1/2

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ACC NR: AT6034361

sedimentary complex in the southern part of the Sea of Azov decreases gradually toward the north, pinching out at the northern shore. The granitic layer has a thickness of 10—15 km in the coastal areas of the Black Sea, but decreases evenly, finally pinching out near the deep-water part of the basin. The 20—23-km thick basaltic layer in the coastal regions of the Black Sea decreases to a thickness of 7—9 km at the center of the western part of the sea and to a thicknes of 10—14 km at the center of the eastern part. Under the Sea of Azov the surface of the basaltic layer is approximately parallel to the Moh discontinuity. Interpretation of the Δg curves indicates that the Earth's crust is 22—25-km thick in the central part of the sea and 35—45-km thick at the shores. The geophysical data indicate that the Earth's crust under the Black Sea is intermediate between the continental and oceanic crustal types, while the crust under the Sea of Azov is of the continental type. Two of the three figures in the article show the depth of the Moho discontinuity in the Black Sea region, as determined by two different methods. Orig. art. has: 3 figures.

SUB CODE: 08/ SUBM DATE: 04May66/ ORIG REF: 013/

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDER, A.F.; SOROKINA, Ye.I.

Selectifiers instead of knotters. Bum. prom. 36 no.8:20-21 Ag '61. (MIRA 14:8)

1. Solikamskiy kombinat.
(Papermaking machinery)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDER, I. F.

14-57-6-12670D

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6, p 128 (USSR)

AUTHOR: Minder, I. F.

TITLE: Harmful Insects and Ticks in the Fruit Trees of the Oka River System (Vrednyye nasekomyye i kleshchi na plodovykh kul'turakh v Okskoy poyme)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Biological Sciences, presented to the MGU (Moscow State University), Moscow, 1956

ASSOCIATION: MGU (Moscow State University)

Card 1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDER, I.F., aspirant

The cutworm Monima (Taeniocampa) gracilis F. as a pest of fruit nurseries. Zashch. rast. ot vred. i bol. 2 no.6:57-58 N-D '57. (MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet.
(Cutworms) (Nursery stock--Diseases and pests)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDER, I.F.

Materials on the biology of the pear leaf blister mite (Eriophyes pyri (Pgst.) Nal.) [with summary in English]. Zool. zhur. 36 no.7: 1007-1015 Jl '57. (MIRA 10:9)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(Ryazan Province--Mites) (Pear--Diseases and pests)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDER, I.F.

Leaf rollers injurious to fruit crops in the Oka bottom lands. Ent.obozr. 38 no.1:98-110 '59. (MIRA 12:4)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta, Moskva.
(Oka Valley--Leaf rollers) (Fruit--Diseases and pests)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDER, I.F.

Review of the fauna of black scavenger flies (Diptera, Sepsidae) of Moscow Province. Ent. oboz. 42 no.2:379-389 '63. (MIRA 16:8)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta, Moskva.

(Moscow Province--Sepsidae)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

LOSEV, Lev Semenovich, st. nauchn. sotr.; GLUSHKOV, Aleksandr Ivanovich; KOLCHINSKAYA, V.I., red.; POTASHOVA, V.P., red.; KALASHNIKOV, O.D., spets. red.; MINDER, L.P., spets. red.

[Klipfish] Klipfisk. Murmansk, Murmanskoe knizhnoe izd-vo 1965. 32 p. (MIRA 19:1)

1. Polyarnyy institut rybnogo khozyaystva i okeanografii (for Losev). 2. Nachal'nik otdela ryborazdelochnykh mashin Polyarnogo instituta rybnogo khozyaystva i okeanografii (for Glushkov).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

ALEKSEYEV, A.P., otv. red.; ADROV, M.M., spets. red.; KONSTANTINOV, K.G., spets. red.; KUTAKOV, B.G., red.; MASLOV, N.A., red.; MINDER, L.P., red.; NIKOL'SKIY, L.S., red.; STAROVOYTOV, P.A., red.; SURKOV, S.S., red.; KHRANOVSKIY, A.Yu., red.; YUDANOV, I.G., red.; VOROB'YEV, A.T., red.

[Materials of the session of the Scientific Council of the Arctic Scientific Research Institute of Marine Fisheries and Oceanography dealing with the results of research in 1962-1963] Materialy sessii Uchenogo soveta PINRO po rezul'tatam issledovanii v 1962-1963 gg. Murmansk, 1964. 237 p. (MIRA 18:1)

1. Murmansk. Polyarnyy nauchno-issledovatel'skiy i proyektnyy institut morskogo rybnogo khozyaystva i okeanografii. 2. Direktor Polyarnogo nauchno-issledovatel'skogo i proyektnogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Alekseyev). 3. Laboratoriya vosproizvodstva Polyarnogo Nauchno-issledovatel'skogo i proyektnogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Surkov). 4. Laboratoriya tekhniki promyshlennogo rybolovstva Polyarnogo nauchno-issledovatel'skogo i proyektnogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Starovoytov).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

SHARADZENIDZE, S.A.; MINDLIN, I.G.; SHALYGIN, D.A.; TSERETELI, P.A.

Mechanization and automation of pipe mills. Metallurg 8 no.6: 27-29 Je '63. (MIRA 16:7)

1. Rustavskiy metallurgicheskiy zavod.
(Pipe mills) (Automation)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

KHODOS, L. A.; MINDER, L. P.

Fishery Products - Preservation

New plan for a completely mechanized line for brine salting small fish in barrels, Ryb. khoz. 29, No. 1, 1953.

9. **Monthly List of Russian Accessions**, Library of Congress, May 1953. Unclassifie

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

Minder, L.P.

DRAGUNOV, A.M., kandidat tekhnicheskikh nauk; MINDER, L.P., kandidat tekhnicheskikh nauk; NIKITIN, B.P.

Salt content standards for fish and fishery products. Standartizatsiia no.6:76-78 N-D '54. (MLRA 8:10)

1. Dono-Kubanskaya nauchnaya rybokhozyaystvennaya stantsiya Azcherniro (for Dragunov and Minder). 2. Moskovskoye upravleniye Gosprodinspektsii po kachestvu

(Fishery products--Standards)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDEROVA, Ye. V.

Minderova, Ye. V. - "The Ragweed Group (Senecioneae Cass.) of the Compositae Family in the Ukrainian SSR." Acad Sci Ukrainian SSR. Inst of Botany. Kiev, 1956 (Dissertation for the Degree of Candidate in Biological Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDEROVA, Ye.V.

New Senecio L. species in the flora of the Ukraine. Ukr. bot. zhur. 13 no.3:55-63 '56. (MLRA 9:11)
(Ukraine--Senecio)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDEROVA, Ye. K.

Genus Ligularia Cass. in the flora of the European part of the U.S.S.R. [with summary in English]. Ukr. bot. zhur. 14 no.2:44-53 '57. (MLRA 10:8)

1. Institut botaniki Akademii nauk URSR, viddil vishchikh roslin. (Ligularia)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDIN, A.A. [Mindin, O.A.] (Odessa)

Theory of the motion of bodies with variable mass in the relativistic version. Prykl.mekh. 8 no.5:546-551 '62. (MIRA 15:9)

1. Odesskiy gosudarstvennyy universitet.
(Motion)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDIN, G.R.

"Use of Cartridge Fuses and Development of New Fuses for the Protection of Electrical Circuits" (Primeneniye trubchatykh predokhraniteley i razrabotka novykh predokhraniteney dlya zashchity elektricheskikh tsepey). Ministry of the Shipbuilding Industry. Scientific Research Institute imeni Krylov. 10 pp., 1947

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDIN, G. R. Cand Tech Sci -- (diss) "Study of ~~Research on~~ tubular electric heating elements and their practical application." Mos, 1957. 15 pp with diagrams 20 cm. (Min Higher Ed USSR. Mos Order of Lenin Power Engineering Institute of Energetics im V. M. Molotov), 100 copies

(KL, 20-57, 84)

35

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDIN, G.R.

MINDIN, G.R., inzh.

Cables with mineral insulation and metallic sheathing. Sudostroenie 22 [i.e.23] no.10:54-56 O '57. (MIRA 11:2)
(Electricity on ships)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDIN, G.R., kand.tekhn.nauk

"Manual on power cables and lines"; book review by G.R.Mindin.
Sudostroenie 28 no.3:73 Mr '62. (MIRA 15:4)
(Electricity on ships) (Electric lines)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

POSHERSTNIK, Moisey Yudovich; SALYUTINA, Mariya Alekseyevna; RENNE, V.T., doktor tekhn. nauk, retsenzent; MINDIN, G.R., nauchn. red.; SACHUK, N.A., red.

[Thermal calculations of ship cables] Teplovoi raschet sudovykh kabelei. Leningrad, Izd-vo "Sudostroenie," 1964. 238 p. (MIRA 17:5)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

GUREVICH, Viktor Zalmanovich; DEMIDOV, Nikolay Alekseyevich; CHIPKOVA, V.G., inzh., retsenzent: MINDIN, G.R., kand. tekhn. nauk, nauchn. red. ALESHIN, N.I., inzh., red.; CHFAS, M.A., red.

[Electric heating installations of ships] Sudovye elektronagrevatel'nye ustroistva. Leningrad, Sudostroenie, 1965. 243 p. (MIRA 18:8)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

44486
S/198/62/008/005/005/009
D234/D308

11.1500
26.1430

AUTHOR: Mindin, O. A.

TITLE: Theory of motion of bodies of variable mass in relativistic version

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Instyut mekhaniky. Prikladna mekhanika, v. 8, no. 5, 1962, 546-551

TEXT: The author considers the motion in the absence of external forces, assuming that the fuel mass dm used during a time dt is split into two parts, which he calles defect mass dm_d and slag mass $d\mu$. One part of dm_d is converted into electromagnetic radiation and the other is used for disposing of $d\mu$. Velocities close to the velocity of light are considered. The basic equations of motion are taken from a paper by V. F. Kotov. Using the relativistic formula of addition of velocities, the author obtains the differential equation of the problem, whose solution is

Card 1/4

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

$$\frac{M_e}{M_{eo}} = \beta \sqrt{\left[\frac{F(v)}{F(0)}\right]^6 \frac{f(0)}{f(v)}} \qquad (1.7)$$

where M_e denotes the rest mass of the body, $\beta = v/c$.

$$\Delta = -\left\{4u_r c^2 \left[\alpha\varepsilon c + (1-\varepsilon)u_r\right] + \varepsilon^2 c^2 (\alpha u_r - c)^2\right\}$$

$$u_r v^2 + (\alpha u_r - c)\varepsilon c v - c^2 \left[\alpha\varepsilon c + (1-\varepsilon)u_r\right] = f(v)$$

* V. F. Kotov, Theory of New Rocket Types, Odessa Govt. Inst. im. I. I. Mechnikov, Math Science Series, 14b, 1, 1956.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

$$\frac{2u_r v + \varepsilon c(\alpha u_r - c) - \sqrt{-\Delta}}{2u_r v + \varepsilon c(\alpha u_r - c) + \sqrt{-\Delta}} = F(v); \quad \frac{c\left[(2 - \varepsilon)c + \varepsilon\alpha u_r\right]}{\sqrt{-\Delta}} = \delta$$

u_r is the relative velocity with which the slag mass is ejected, α is the radiation coefficient and ε the mass defect coefficient, the initial values are

$$M_e = M_{eo}; \; v = 0; \; f(v) = f(0); \; F(v) = F(0)$$

An implicit formula is obtained for the final velocity of the body, when the fuel has been consumed. For u_r

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

$$u_r = c\left\{1 - \left[\frac{1-\varepsilon}{\varepsilon(1-\alpha)+(1-\varepsilon)}\right]^2\right\}^{\frac{1}{2}} \qquad (2.2)$$

is derived. When $\alpha = \varepsilon = 1$, $u_r = 0$, a differential equation is obtained which was solved by Kotov. When v^2/c^2 is small, another result of Kotov is obtained.

ASSOCIATION: Odes'kyy derzhavnyy universytet (Odessa State University)

SUBMITTED: May 30, 1960

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDIRIGIU, Lucia, ing.

Innovation activity in the units belonging to the Jiu Valley Coal Complex during the period, January 1-April 30, 1962. Rev min 13 no.8:357-358 Ag '62.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

YUSUPOV, P.Yu.; MINDIYAROV, G.M.

We make the cable ourselves. Neftianik 2 no.9:21 S '57 (MIRA 10:9)

1. Elektriki promysla No.1 Neftepromyslovogo upravleniya Tuymazaneft'.
(Electric cables)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDLIN, A.M., inzh.

Units for measuring the capacity of variable energy sources and use of these units in biocalorimetry. Izv. vys. ucheb.zav.; prib. no.2:129-140 '58. (MIRA 11:7)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
(Body temperature--Measurement)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

S/146/62/005/003/013/014
D234/D308

AUTHOR: Mindlin, A.M.

TITLE: A dynamical biocalorimeter for the study of heat exchange of warm-blooded animals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 5, no. 3, 1962, 132-140

TEXT: The author describes the calorimetric part of the complete measuring installation, the experimental techniques and methods of data processing. The calorimetric device makes it possible to determine the intensity of heat exchange during any period not shorter than 5 min. It is stated that the methods described can be applied to other problems of heat losses (e.g. in radio components operating in pulse regimes). There are 5 figures.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: October 18, 1961

Card 1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

17.1157

39342
S/146/62/005/004/012/013
D295/D308

AUTHOR: Mindlin, A.M.

TITLE: Equipment for determining the gas exchange in warm-blooded animals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 5, no. 4, 1962, 94-104

TEXT: Physical methods are to be preferred to chemical methods of gas analysis if continuous data on the gas exchange are required. A respiration-calorimetric apparatus has been evolved in which automatic gas analyzers are used for a continuous determination of O_2 and CO_2. The article is devoted to a description of the general scheme of gas circulation and a detailed account of the O_2 thermo-magnetic gas analyzer (error ± 0.075% O_2) and the CO_2 thermal conductivity gas analyzer (error ± 0.03% CO_2 on the 0 to 1.5% scale, and ± 0.08% CO_2 on the 0 to 3% scale). There are 4 figures and 1 table.

Card 1/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

Equipment for determining ... S/146/62/005/004/012/013
D295/D308

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: July 17, 1961

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

AZBEL', B.M.; MINDLIN, B.B.; FEDOTYCHEVA, O.S.; BERSHIDSKIY, A.Kh., kand. tekhn. nauk; SMIRNOV, B.K., kand. tekhn. nauk; PETROVA, V.V., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Recommendations on the development and utilization of standard calculations for piecework assignments in construction of apartment houses according to standard plans]Rekomendatsii po razrabotke i primeneniiu tipovykh kal'kuliatsii dlia akkordnykh nariadov pri stroitel'stve zhilykh zdanii po tipovym proektam. Moskva, Gosstroiizdat, 1962. 129 p. (MIRA 15:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut ekonomiki stroitel'stva. TSentral'noye normativno-issledovatel'skoye byuro. 2. TSentral'noye normativno-issledovatel'skoye byuro Instituta ekonomiki stroitel'stva Akademii stroitel'stva i arkhitektury SSSR (for Azbel', Mindlin, Fedotycheva). 3. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva (Bershidskiy, Smirnov).
(Piecework) (Apartment houses)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

S/133/61/000/001/009/016
A054/A033

AUTHORS: Svetlitskiy, Ye. A. and Mindlin, B. I.

TITLE: Improving the Quality of the Inside Surface of Tubes When Reducing the Diametric Pitch During Piercing

PERIODICAL: Stal', 1961, No. 1, p 56

TEXT: On the "400" type tube rolling mill of the Zakavkazskiy metallurgicheskiy Zavod (Transcaucasian Metallurgical Plant) carbon steel tubes, 168, 219, 245, 273 and 325 mm in diameter and tubular products, 188 and 243 mm in diameter are manufactured. About 50% of the production consists of 219 mm-diameter tubes. The roll-caliber of the automatic rolling mill (designed by GIPROMEZ), for 219 mm diameter tubes, has the following dimensions: height-H 234 mm; width-B 248 mm, the B:H ratio 1.06. Formerly these tubes were rolled from billets, 222mm in diameter, with one piercing operation but to improve their shape, billets 180 mm in diameter were used instead, and the final dimensions of the tube blank were obtained on two piercings. However, by employing billets of smaller diameter, the diametric pitches increased sharply on the first piercing mill, as a result of which more 2nd class and 2nd quality tubes were produced owing to internal cinder-

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S/133/61/000/001/009/016
A054/A033

Improving the Quality of the Inside Surface of Tubes When Reducing the Diametric Pitch During Piercing

ing. Since January 1960, the 219 mm-diameter tubes have therefore been rolled with a smaller roll caliber (H = 220 mm, B = 232 mm, B:H = 1.055), resulting in a decrease of the total diametric pitch. This decrease, with the simultaneous increase in pitch on the second piercing mill reduced the pitch on the first piercing mill about 3.7 times, while the mandrel diameter was cut to 120 mm instead of 147 mm. The old and new caliber data are:

	old	new
Caliber height of the automatic mill, mm	234	220
indices for the first piercing mill, mm		
diameter of the tube blank coming from the mill, mm	210	188
diametric pitch, mm (the %-values in brackets)	30 (16.6)	8 (4.4)
indices for the second piercing mill, mm		
diameter of the tube blank coming form the mill, mm	244	232
diametric pitch, mm (%)	34 (16.2)	44 (23,4)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

S/133/61/000/001/009/016
A/054/033

Improving the Quality of the Inside Surface of Tubes When Reducing the Diametric Pitch During Piercing

Total diametric pitch, mm (%)	64 (35.4)	52 (28.8)

A comparison of the average indices for the last 2 months of 1959 and the first 2 months of 1960 shows that the number of 2nd class and 2nd quality tubes due to cindering decreased by 18.4%. The simultaneous cut in machining time resulted in a better utilization of the second piercing mill (when rolling 219 mm-diameter tubes) which thus no longer limited the operation of the whole mill. Using the new diameter of the tube blank the dimensions of the tube rolling tools could be reduced, the number of operating stands decreased from 7 to 5 and, consequently, the consumption of rolls and electric power was lowered.

ASSOCIATION: Zakavkazskiy metallurgicheskiy zavod (Transcaucasian Metallurgical Plant)

Card 3/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

SHARADZENIDZE, S.A., inzh.; BOROVKOV, A.N., inzh.; SVETLITSKIY, Ye.A., inzh.; TSERETELI, P.A., inzh.; MINDLIN, B.I.

Use of fixed mandrels on pipe piercing mills. Biul. TSIICHM no.2:28-31 '61. (MIRA 14:9)

(Pipe mills)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

S/130/61/000/002/003/005
A006/A001

AUTHORS: Svetlitskiy, Ye. A., Head of the Piperolling Laboratory, Mindlin, B. I., Chief of the Piperolling Group TsZL

TITLE: Improving the Quality of Thin Walled Pipes

PERIODICAL: Metallurg, 1961, No. 2, pp. 31-32

TEXT: In order to produce large-diameter (325 and 273 mm) thin-walled pipes, it is imperative to reduce to a minimum the amount of blisters on the internal pipe surfaces. An investigation made at the Transcaucasian Metallurgical Plant has shown that the occurrence of blisters inside the sleeves and the pipes is caused by the appearance of a cavity in front of the mandrel tip when piercing the blank into the sleeve. The roughness of the internal pipe surface depends on the quality of the initial blank, its preheating prior to piercing, the setting of the first broaching mill and the magnitude of ratio of the diameter on the first piercing mill. It was established that a decrease in temperature by 70 - 100°C during the piercing of blanks on mill No. 1, strongly affected the quality of the internal pipe surface. Therefore when rolling 325 and 273 mm diameter pipes, preheating is now performed in two furnaces, to assure a better heating of

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the blanks. The cavity in front of the mandrel tip results from non-uniform deformation and axial reduction in length. Radial tensile forces during piercing may entail rupture of the core (Figure). It is imperative to diminish reduction forces σ_2 which are the components of the skew forces σ_1. This may be achieved by reducing the diameter ratio

$$\frac{D_{sleeve} - D_{blank}}{D_{blank}} .$$

The unit 400 contains 2 piercing mills. The diameter ratio can be freely varied, i. e. it can be increased on one of the piercing mills by decreasing it on the other one. A decrease of the diameter ratio on mill 1 was obtained by reducing the mandrel diameter, the other parameters remaining constant. The angle α between the sleeve-blank axis and the skew force σ_1 decreases. This entails a decrease of forces σ_2. Therefore with a reduced mandrel diameter, the axial section of the blank is less subjected to radial tensile forces. Improved heating of ingots on the blooming mill, preheating of the blanks in two furnaces and a reduction of the diameter ratio on the first piercing mill, reduced the number of pipes with internal blisters by 40.7%.

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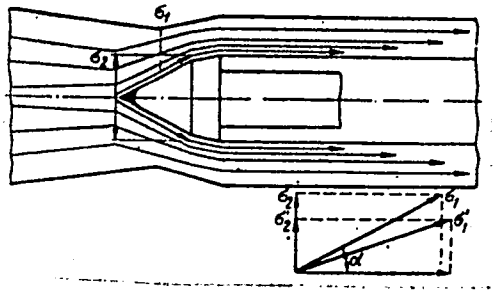
Improving the Quality of Thin Walled Pipes

S/130/61/000/002/003/005
A006/A001

Figure
Longitudinal section of the deformation seat. There is 1 figure.



ASSOCIATION: Zakavkazskiy metallurgicheskiy zavod (Transcaucasian Metallurgical Plant).

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OYKS, G.N., doktor tekhn.nauk, prof.; SHARADZENIDZE, S.A., inzh.; SVETLITSKIY, Ye.A., inzh.; MALYSHEV, S.I., inzh.; LOLUA, K.K., inzh.; MINDLIN, B.I., inzh.

Production of tube made of capped-type steel with a two-layer crystal structure. Stal' 21 no. 4:304-307 Ap '61. (MIRA 14:4)

1. Moskovskiy institut stali i Zakavkazskiy metallurgicheskiy zavod.

(Pipe, Steel) (Rolling (Metalwork))

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

TUL'CHINSKIY, S.Ya.; MINDLIN, D.N.

Restoration of machine parts by means of electric metal spraying. Med.prom. 13 no.3:38-43 Mr '59. (MIRA 12:5)

1. Mediko-instrumental'nyy zavod "Krasnogvardeyets."
(MACHINERY--REPAIRING) (METAL SPRAYING)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDLIN, D.N.; MOSICHEV, S.V.; ROZANOV, Yu.N.

Over-all modernization of a turret lathe. Med.prom. 14 no.1:51-52 Ja '60. (MIRA 13:5)

1. Mediko-instrumental'nyy zavod "Krasnogvardeyets."
(LATHES)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDLIN, G.N.

ALEKSEYEVSKIY, A.K., arkhitektor; MINDLIN, G.N., arkhitektor

Clay slabs for thin wall facings. Rats. i izobr.predl. v stroi. no.108:16-17 '55. (MLRA 8:10)

(Walls)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDLIN G.N

ALEKSEYEVSKIY,A.K.; KOVALEVSKIY,P.P.; MINDLIN,G.N.

Standard pattern clay facing elements for rods and cornices. Rats. i izobr.predl. v stroi. no.108:20-21 '55. (MLRA 8:10)
(Cornices)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

GOL'VERK, M., arkhitektor; MINDLIN, G. N., arkhitektor

Provide new apartment houses with a supply of comfortable, beautiful, and inexpensive furniture. Zhil. stroi. no.9:20-21 S '60. (MIRA 13:9)

(Furniture)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

SOV-25-58-9-54/62

AUTHOR: Mindlin, I., Candidate of Historical Sciences

TITLE: The Way to the Truth (Put' k Istine)

PERIODICAL: Nauka i zhizn', 1958, Nr 9, p 74 (USSR)

ABSTRACT: This is a review of a book written by a Japanese philosophe Yanagida Kendzyuro "The Evolution of my World Outlook".

1. Philosophy--Japan

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

OSTRENKO, V.Y., kand.tekhn.nauk; BOBRAKOV, L.D., inzh.; Prinimali uchastiye: ROZENFEL'D, N.B.; OSLAMENKO, L.S.; TSERETELI, P.A.; MINDLIN, I.D.; KUPERSHTEYN, Ye.A., TOPAL, V.A.

Organizing the rolling of large-diameter thin-walled pipes on the heavy-duty automatic unit at the Zakavkazskiy Metallurgical Plant. Biul.nauch.-tekh.inform.VNITI no.4/5:17-23 '58. (MIRA 15:1)
(Tiflis--Pipe mills)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

MINDLIN, I.G.

FOMICHEV, I.A.; OSTRENKO, V.Ya.; BOBRIKOV, L.D.; MINDLIN, I.G.

Hollow mandrels with inside cooling for piercing mills. Biul. TSNIICHM no.23:42-44 '57. (MIRA 11:2)

1.VNITI (for Fomichev, Ostrenko, Bobrikov). 2.Zakavkazskiy metallurgicheskiy zavod (for Mindlin).
(Rolling mills)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

AUTHOR: Mindlin, I.G. SOV/130-58-9-16/23

TITLE: Operating Experience with an Automatic 400 Tube-rolling installation (Ob opyte raboty avtomaticheskogo truboprokatnogo agregata 400)

PERIODICAL: Metallurg, 1958, 3 Nr 9, pp 29 - 31 (USSR)

ABSTRACT: The 400 installation at th. Transcaucasian Metallurgical Works with an automatic mill was designed and made in the USSR and the author discusses the plant and operating experience. The plant includes two rotating-hearth furnaces, two piercing mills, an automatic mill with a heating furnace before it, a hot sizing mill, two straightening mills, mechanized tube-cutting and threading machines and other equipment. At present, all except the smallest (168-mm diameter) tubes are rolled with two piercings. Since the installation started working (December, 1953), 168-325 mm diameter tubes for the oil and other industries have been rolled and some faults revealed have been corrected, the following being among the improvements made or planned. The quality of tube billets, especially for larger diameters, is to be improved in accordance with designs prepared by Gipromez. In the rotating-hearth furnaces, the adoption of a rammed hearth, as at the Novotrubnyy Works, has been

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SOV/130-58-9-16/23

Operating Experience with an Automatic 400 Tube-rolling Installation

advantageous and another important improvement has been the hot centering of the tube billet with a pneumatic gun of the N.A. Andreyev system. In the second half of 1957, experiments were carried out on the piercing of large batches of billets 180-270 mm in diameter and 1 600-3 500 mm long of 10, 20, D steel with internally-cooled, hollow mandrels. The rolling of large diameter thin-walled tubes (168 x 6 and 325 x 8 mm) has been introduced, these accounting for 15% of total production in 1957 and the author discusses some special features of the production of such tubes. In conclusion, he suggests that 168-mm dia. tubes should be transferred to the 250 installation at the Baku Tube Works.

ASSOCIATION: Zakavkazskiy metallurgicheskiy zavod (Transcaucasian Metallurgical Works)

Card 2/2 1. Rollimg mills--Operation 2. Industrial plants--Equipment 3. Steel tubing--Production

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

S/103/63/024/003/011/015
D405/D301

AUTHOR: Mindlin, I.M. (Moscow)

TITLE: On the stability of automatic control systems with one nonlinear element

PERIODICAL: Avtomatika i telemekhanika, v. 24, no. 3, 1963, 398-402

TEXT: The necessary and sufficient condition for absolute stability of a system of direct control is ascertained, the coefficients of the system being subjected to certain restrictions. The deduction of the stability criterion is simple. The equation of the control system is

$$\frac{dx_i}{dt} = -\lambda_i x_i + f(\sigma) \qquad (i = 1, 2, \ldots, n), \qquad (1)$$

$$\sigma = \sum_{j=1}^{n} \gamma_j x_j,$$

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where $\lambda_i > 0$ (all the λ_i being distinct), $\gamma_j \geqslant 0$, $f(\sigma)\sigma > 0$, $f(0) = 0$. The stability in the large of the trivial solution is investigated. After calculations one obtains the following criterion: The condition $f(\sigma)/\sigma < \rho_o$ (where $\left(\rho_o = \sum_{i=1}^{n} \frac{\gamma_i}{\lambda_i}^{-1}\right)$) is necessary for stability in the large of the trivial solution (if $f'(0) \neq \rho_o$), since otherwise the origin of coordinates would be unstable or a non-zero equilibrium position would exist. Moreover, all the solutions of system (1) tend asymptotically to zero if the same condition is satisfied. (This condition is formulated as a theorem, which is proved with the help of a Lyapunov function). There is 1 figure.

SUBMITTED: September 19, 1962

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

S/0258/64/004/001/0101/0104

ACCESSION NR: AP4026958

AUTHOR: Mindlin, I. M. (Moscow)

TITLE: Stability of a disk carrying a gyroscope

SOURCE: Inzhenernyy zhurnal, v. 4, no. 1, 1964, 101-104

TOPIC TAGS: gyroscope, stability condition

ABSTRACT: The motion of a heavy symmetric disk on which a gyroscope is attached and which rolls without slipping on a horizontal surface is considered. The gyroscope axis coincides with the symmetry axis of the disk and the center of mass of the system coincides with that of the disk. A particular solution of the general equations of motion for such a system is allowed, corresponding to the motion for which the symmetry axis is horizontal and the disk rolls with a constant angular velocity r_o about the symmetry axis, the angular velocity about any diameter of the disk being zero (i.e., $\dot{r}_o$ is constant and parallel to the horizontal surface). The necessary and sufficient condition for the stability of this motion is found to be:

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ACCESSION NR: AP4026958

$$(Cr_0 + Bp_0)^2 + Ma^2 (Cr_0 + Bp_0) r_0 - MgaA > 0$$

where A is the moment of inertia of the system relative to a diameter of the disk, B and C are the moments of inertia of the gyroscope and disk respectively, relative to the axis of symmetry, M is the mass of the system, a is the radius of the disk, and Bp_0 is the constant angular momentum of the gyroscope. Orig. art. has: 61 equations.

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics AN SSSR)

SUBMITTED: 24Jun63 DATE ACQ: 15Apr64 ENCL: 00

SUB CODE: PH NO REF SOV: 004 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

S/0258/64/004/002/0225/0230

ACCESSION NR: AP4037093

AUTHOR: Mindlin, I. M. (Moscow)

TITLE: Stability of motion of a heavy body of rotation on the horizontal plane

SOURCE: Inzhenerny*y zhurnal, v. 4, no. 2, 1964, 225-230

TOPIC TAGS: motion stability, body of rotation, horizontal plane motion, Lyapunov function, integral expansion, rough plane, power series solution

ABSTRACT: The author obtains the following equations of motion

$$(A + M\zeta^2 + M\eta^2)\frac{dp}{dt} = -(Cr + Aq \operatorname{ctg} \alpha)\, q + M\zeta q \operatorname{ctg} \alpha\, (\eta r - \zeta q) +$$
$$+ Mg\zeta \sin \alpha - M\eta q\, (\eta r - \zeta q) + Mg\eta \cos \alpha - M\cdot(\zeta\zeta' + \eta\eta')\, p, \qquad (1)$$
$$A\frac{dq}{dt} + C\zeta\frac{1}{\eta}\frac{dr}{dt} = (Cr + Aq \operatorname{ctg} \alpha)\, p,$$
$$\frac{d(\eta r - \zeta q)}{dt} + \frac{C}{M}\frac{1}{\eta}\frac{dr}{dt} = -(\zeta \operatorname{ctg} \alpha - \eta)\, qp,$$
$$p = -\frac{d\alpha}{dt},$$

for which he obtains a particular solution

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ACCESSION NR: AP4037093

$$p = q = \alpha = 0, \quad r = r_0, \qquad (2)$$

To solve the problem of stability of this particular solution, the author constructs a Lyapunov function and reduces it to two ordinary differential equations which have power series solutions. He finds necessary and sufficient conditions for stability. "In conclusion I thank B. S. Razumikhin for his attention to and comments made on the work." Orig. art. has: 12 formulas.

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics, AN SSSR)

SUBMITTED: 24Jun63 DATE ACQ: 05Jun64 ENCL: 00

SUB CODE: ME, AC NO REF SOV: 005 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410014-2

L 51461-65 EEO-2/EED-2/EEC(k)-2/EWO(v)/EWT(d)/EWT(m)/EWA(c)/EWP(b)/T/EWA(d)/FSS-2 / EWT(w)/EWP(t) Pe-5/Pg-4/Pk-4/Pl-4/Pn-4/Po-4/Pq-4/ JD/BC

ACCESSION NR: AP5011312 UR/0258/65/005/002/0211/0216
531.384

AUTHOR: Mindlin, I. M. (Moscow)

TITLE: The stability of motion of a top along a horizontal plane in the presence of sliding friction

SOURCE: Inzhenernyy zhurnal, v. 5, no. 2, 1965, 211-216

TOPIC TAGS: spinning top, motion stability, analysis, sliding friction, Lyapunov function, partial solution stability, gyroscope motion

ABSTRACT: The report analyzes the problem of the stability of spinning motion (top axis remaining vertical) of a symmetrical heavy top over a fixed horizontal surface, assuming the possibility of slip at the point of contact and ensuing

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dry friction. The Lyapunov function approach is employed to analyze the stability of the partial solution

$$\alpha = 0,\ p = q = 0,\ r = r_0 = \text{const},\ u_0 = v_0 = w_0 = 0, \quad (2)$$

to the complete motion equation. Here, α is the angle between the vertical and

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